

## governmentattic.org

"Rummaging in the government's attic"

Description of document: Defense Technical Information Center (DTIC) computergenerated bibliographies prepared by matching the subject terms: SS-464L, RS-620A or Dyna-Soar against the Technical Report database, 2020 Requested date: 01-August-2020 Release date: 05-August-2020 Posted date: 10-August-2020 Source of document: Defense Technical Information Center (DTIC-R) **ATTN: FOIA Requester Service Center** 8725 John J. Kingman Road Fort Belvoir, Virginia 22060-6218 Fax: 703-767-9201 **Email Form Contact DTIC FOIA** 

The governmentattic.org web site ("the site") is a First Amendment free speech web site, and is noncommercial and free to the public. The site and materials made available on the site, such as this file, are for reference only. The governmentattic.org web site and its principals have made every effort to make this information as complete and as accurate as possible, however, there may be mistakes and omissions, both typographical and in content. The governmentattic.org web site and its principals shall have neither liability nor responsibility to any person or entity with respect to any loss or damage caused, or alleged to have been caused, directly or indirectly, by the information provided on the governmentattic.org web site or in this file. The public records published on the site were obtained from government agencies using proper legal channels. Each document is identified as to the source. Any concerns about the contents of the site should be directed to the agency originating the document in question. GovernmentAttic.org is not responsible for the contents of documents published on the website.



NREPLY REFERTO: DTIC-R (FOIA 2020-102) August 5, 2020

This is in response to your email dated August 1, 2020, received in this office August 3, 2020, requesting information under the Freedom of Information Act (FOIA) (enclosure 1). Under Department of Defense rules implementing the FOIA, published at 32 CFR 286, your request was categorized as "other".

Enclosure 2 is a computer-generated bibliography prepared by matching the subject terms in your request against our Technical Report database. The bibliography may contain some documents that do not apply to the specific subject areas in which you are interested; however, to eliminate any of the key search terms could also eliminate documents that do apply to your subject area(s) of interest.

Enclosures 3 and 4 consist of a bibliographies that contain unclassified descriptions of classified and/or unclassified/limited distribution documents related to your request. These documents may only be released by the controlling activity. Requests for these documents should be forwarded to the controlling activity, usually identified in the Distribution Statement field of the citation. This office upon request can research documents with no controlling activity identified. NOTE: Although some of the citations listed on the bibliography at attachment 2 may indicate that the document can be viewed and/or downloaded in full text, be advised that these citations/documents are not available to the general public through the DTIC Online Public Technical Reports database.

To date, there are no assessable fees for services from DTIC. Please understand that other members of the public may submit a FOIA request for copies of FOIA requests received by this office, or the names of those who have submitted requests. Should such occur, your name and, if asked for, a copy of your request will be released; however, your home address and home telephone number will not be released. Other private citizens who have obtained your name by using such a request may contact you; however,

## DTIC-R (FOIA 2020-102) Page 2

correspondence from the DoD about your request will be on official letterhead. Please contact me at (571) 448-9702 if you have any questions. Thank you for your interest in obtaining information from DTIC.

Sincerely,

Michael Hamilton

4 Enclosures

Michael Hamilton FOIA Program Manager

## Highest Classification: Unclassified

## Collection: TR

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0713135	A TECHNIQUE	7/1/1970	U	[A - 01]	A description is given of the RAIDS (Rapid Availability of Information and Data for	MARTIN	[Mumma,	278	[ASD-TR-69-119]	[TR-69-119,ASD]	Approved for	Technical
	FOR THE				Safety) method of information storage and retrieval. Acquired data are stored in the	MARIETTA	George				public	rept.,
	ACQUISITION,				library in its original printed form. RAIDS provides three approaches to the	AEROSPACE	B.,Lebel,				release;	
	STORAGE,				identification and retrieval of data. The first approach is to organize the information	DENVER CO	Thomas				distribution is	
	AND				into logical groups according to corporate authorship and then classify these groups		J.,McIntire,				unlimited.	
	RETRIEVAL OF				alphabetically; further alphabetizing breaks the information into additional subclasses		Gary					
	SYSTEM				which are further reduced to item numbers. The second approach provides punched		B.,Chappell					
	SAFETY				cards to retrieve the subject matter. The third approach provides indexing which		, Adlyn K.]					
	INFORMATIO				identifies all the important ideas or concepts in the document and reduces them to							
	N - WITH				concise, descriptive terms. These terms are coordinated in the index to present							
	ATTACHED				logical meaning to the searcher. Therefore, no matter how slight the searcher's							
	BIBLIOGRAPH				recognition term may be, one of the RAIDS approaches will lead to the desired							
	Y				information.							
							-					
ADA359893	The	11/1/1998	U	[A - 01]	The spaceplane could be the most desirable form of space transportation in the next	AIR FORCE	[Kelly,	148	Not Available	[AFIT]	Not Available	Not Available
	Spaceplane:				century. However, accompanying it are questions of whether a boundary is needed	INST OF TECH	Elizabeth]					
	The Catalyst				between airspace and outer space, and whether the current definition of space	WRIGHT-						
	for Resolution				object' in the outer space treaties is adequate to include these hybrid vehicles. This	PATTERSONA						
	of the				thesis concludes that the spaceplane does not portend the need for a boundary and	FB OH						
	Boundary and				that it will not require the development of a new definition. Chapter 1 describes							
	Space Object'				some of the best known spaceplane initiatives. Chapters II and III, respectively,							
	Issues in the				discuss the air law and space law regimes and arguments made for and against							
	Law of Outer				establishing a boundary between airspace and outer space. Chapter IV describes							
	Space?				debates regarding the sufficiency of the term space object' as it is defined in the							
					space law regime. Chapter V analyzes the impact that spaceplanes will have on the							
					boundary and space object' debates.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA315372	Thirty-Five Years of Acquisition Excellence.	8/1/1996	U	[A - 01,23]	For the past 35 years, the Aeronautical Systems Center (ASC) has served as the nation's premier organization for military aeronautics. ASC's mission encompasses all stages in the research, development, and acquisition of aircraft and their related equipment and technologies. Headquartered at historic Wright Field (Area B, Wright-Patterson AFB, Ohio), ASC owns one of the largest scientific and engineering establishments in the world, including the Wright Laboratory with its associated facilities and personnel-the largest of the Air Force's 'super labs.' Since 1992, ASC's mission has also expanded to include the 88th Air Base Wing, which operates Wright-Patterson from its headquarters in Area C, and the 74th Medical Group, which operates the USAF Medical Center in Area A, one of the largest military medical facilities in the nation.	AERONAUTIC AL SYSTEMS CENTER WRIGHT- PATTERSON AFB OH	Not Available	29	[WL*-TR-96- 5002]	[TR-96- 5002,ASC/WPAFB ]	Availability: Document partially illegible.	Final rept. 1 Jan-1 Dec 95,
ADA421934	Beyond the Paths of Heaven. The Emergence of Space Power Thought	9/1/1999	U	[A - 01,26]	Major issues have plagued the US military space community for years. Foremost among these issues is the relationship between air and space. At a recent airpower conference, military leaders from the western powers presented discussions of airpower and space issues with a pervasive underlying assumption: that the next logical step from the exploitation of airpower and space capabilities was the merging of the two environments toward the exploitation of "aerospace" power. The current distinction between air and space rests on the fiscal and technical inability to merge them an inability that is soon to be overcome. Conferees dismissed environmental distinctions between the two on the grounds that there is no absolute boundary between air and space In Paths of Heaven, the chapter titled Ascendant Realms: Characteristics of Air and Space Power," I examine this assumption from the perspective of 21 different military characteristics and conclude it to be invalid. The reasons extend well beyond an inability fiscally and technically to merge the two realms.	AIR UNIV MAXWELL AFB AL	[DeBlois, Bruce M.]	598	Not Available	[AU]	Availability: This document is not available from DTIC in microfiche.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0271529	PROCEEDINGS OF SYMPOSIUM ON AEROTHERMO ELASTICITY, 30 OCTOBER - 1 NOVEMBER 1961	12/1/1961	U	[A - 01]	A symposium on Aerothermoelasticity was held to present the latest significant developments in each scientific area and engineering area that comprise the component parts of this technology. New and significant contributions were presented in four technical areas consisting of DYNAMIC AEROTHERMOELASTICITY (flutter), stability and control, thermodynamics and aerodynamics (or aerothermodynamics), and structures including material and construction concepts. Categories important and significant to each technical area are discussed state-of-theart wise. In addition, 26 separate papers are given on items of special importance.	AERONAUTIC AL SYSTEMS DIV WRIGHT FIELD OH	Not Available	1022	[ASD-TR-61-645]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0262976	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	12/1/1961	U	[A - 01,23]	A study was made of the design, fabrication, performance and testing requirements for an ejection seat and survival system. The equipment was designed to provide for pilot escape and survival from the Dyna-Soar glider. Preproduction Effectiveness, Test methods, *Tracks (Aerodynamics), Packaging, *Jettisonable equip ment, Parachutes, Catapults, Tests, Tempera ture, Vibration, Reliability, Production. Open-ended Terms: Dyna-Soar. A study was made of the design, fabrication, performance and testing requirements for an ejection seat and survival system. The equipment was designed to provide for pilot escape and survival from the Dyna-Soar glider. Preproduction tests were made of ejection seat and rail assemblies, rocket catapult and parachute assemblies, reserve and survival kits, and packaging for reliability, and for compliance with military specifications. Temperature and vibration and environmental tests were also made.	BOEING CO SEATTLE WA	Not Available	60	[10- 81000]	[USAF]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number	1		Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA640508	Keeping the Edge. Air Force Materiel Command Cold War Context (1945- 1991). Volume 2: Installations and Facilities	8/1/2003	U	[A - 01]	Installations and Facilities is Volume II of the three-volume contextual history Keeping the Edge: Air Force Materiel Command Cold War Context (1945-1991). Its companion, Command Lineage, Scientific Achievement, and Major Tenant Missions is Volume I. The third volume in the set is a stand-alone index for Volumes I and II. Keeping the Edge covers the 45-year period from 1945 to 1989 / 1991. The study functions both as traditional military history, and as a historic context for assessing buildings and structures extant at installations reporting to Headquarters Air Force Materiel Command at the time of the study (1999-2003). In order to fulfill its role as a historic context. Keeping the Edge includes detailed information on the history of infrastructure and civil engineering achievements across the command. The author has highlighted key architectural-engineering firms and has endeavored to place their work for Air Force Materiel Command in perspective with other military and civilian commissions of the Cold War. Keeping the Edge also contains many rare photographs. For the majority of the primary records, the author relied on the collections of the Air Force Materiel Command. At the bases and industrial plant sites, the history offices participated in the project, as did the cultural resource offices and civil engineering (drawings) vaults. The author assessed a wide range of buildings and structures at the bases and compared these to the information available in the records. Selected oral interviews supported the research. The acknowledgments, introduction (goals and methodology), and summary sections for Keeping the Edge appear only in Volume I, while acronyms lists and bibliographies are provided particular to each volume.	PREWITT AND ASSOCIATES INC AUSTIN TX	[Weitze, Karen J.]	616	Not Available	[AFMC]	Approved for public release; distribution is unlimited.	Not Available
AD0754707	AGARD Index of Publications (1952-1970). Part 1. Abstract Section	6/1/1972	U	[A - 01,53]	Contents: Bibliographies; Agard general assemblies; Glossaries and dictionaries; Handbooks; Information bulletins; Lecture series; Manuals; miscellaneous publications; and publications index.	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPME NT NEUILLY- SUR-SEINE (FRANCE)	[Jones, Alec]	477	[AGARD-INDEX- 52/70-PT-1]	[NATO]	Approved for public release; distribution is unlimited. NATO.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1083389	Has the Space Force Earned Its Place	5/23/2019	U	[A - 01]	This monograph examines the factors that led to the stand-up of an independent United States Air Force in 1947 and the factors that influenced the development of the United States' space force. In the wake of President Donald J. Trump's order to stand up a Space Force as a sixth armed service, this monograph will contrast the formation of the Air Force and the current United States space forces to determine if the potential military Space Force has met the same milestones experienced by the independent US Air Force. It will also offer recommendations for the US government to enact prior to establishing an independent Space Force.	ARMY COMMAND AND GENERAL STAFF COLLEGE FORT LEAVENWOR TH KS FORT LEAVENWOR TH United States	[Gruber,Pa trick E.]	55	Not Available	Not Available	Approved For Public Release;	Technical Report,25 Jun 2018,23 May 2019
AD0264193	MATERIALS SYMPOSIUM, 13-15 SEPTEMBER 1961, PHOENIX, ARIZONA	7/1/1961	U	[A - 01,23]	State-of-the-art technology on high performance materials being studied for aerospace and military weapon system applications is reviewed in fifty four Conference papers. Of these, seventeen are of direct interest to Plastec. The topics covered include inorganic (refractories, ceramics and metal allys), organic (polymers), and fiber (metal fiber, fiberglass, and graphite fiber) reinforced ceramic and organic matrix composites. The space environment effects (solar, gamma, UV, IR and thermal radiation) on the mechanical, physical and optical properties of these materials were studied, and coatings for controlling the effects are discussed. (LS-PL).	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	898	[ASD-TR-61-322]	[TR-61-322,ASD]	Availability: Document partially illegible.	Not Available
ADA243965	A Top-Down Performance Analysis of a Pegasus-Based Space Strike System	12/1/1991	U	[A - 01]	The feasibility of using Pegasus launch vehicle as a conventional weapons platform is examined. Using a top-down approach, the analysis addresses the fundamental question of whether such a system should be considered for development. The measures of effectiveness considered are delivery range, probability of destroying the target, and responsiveness. Each of the measures is assessed at its top-level and analyzed only to the level of detail needed to address the fundamental question. The study indicates that attaining a high probability of destroying the target requires extremely precise control over the burnout conditions and that the system must be on constant ready standby to achieve short response times.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING	[Collins, Douglas E.]	99	[AFIT/ENS/GSO/ 91D-04]	[AFIT]	Approved for public release; distribution is unlimited.	Master's thesis,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0438517	A STUDY OF AN ORBITAL MAINTENANC E AND MATERIAL TRANSFER SHUTTLE	3/1/1964	U	[A - 01,23]	A conceptual study of an orbital maintenance and material transfer shuttle is presented. The shuttle is a one-man vehicle used for transporting personnel and materials between other orbiting vehicles and for performing maintenance and repair on space stations or unmanned satellites. The application of the shuttle to existing and proposed space systems is examined and found to be feasible and economically advantageous. The trade-offs between range, duration, propulsion and on-board power systems are presented and design values selected. A simple guidance technique using a short-range radar is formulated. Results of simulated maintenance experiments conducted with a worker in a pressure suit are reported and integrated into the shuttle design.	LOCKHEED AIRCRAFT CORP BURBANK CA	[Goodall, Ray]	373	[LR17031,RTD- TDR-63-4057]	[TDR-63- 4057,RTD]	Approved for public release; distribution is unlimited. Document partially illegible.	Final technical rept., Feb- Oct 1963
AD0684450	ACCELERATIO N TOLERANCE. VOLUME I	2/1/1969	U	[A - 01]	The tolerance for acceleration has been studied by experimentation on the centrifuge using human and animal subjects. Body positioning relative to the direction of the increased gravitational forces was found to be critical. In an upright position, the gravitational shifts of blood may leave the brain cells without adequate blood and oxygen supply causing 'grayout' or blackout' at 4 to 6g. This annotated bibliography compiles 99 unclassified and unlimited references of documents that have been cataloged in the DDC collection.	DEFENSE DOCUMENTA TION CENTER ALEXANDRIA VA	Not Available	142	[DDC-TAS-68-81]	[DDC]	Approved for public release; distribution is unlimited.	Report bibliography Dec 1945- Feb 1968
AD0756855	Test Instrumentati on Subsystem Performance Specification. Model No. DYNA SOAR	12/13/1960	U	[A - 01,23]	The report establishes the performance, design, development, and testing requirements for the Dyna-Soar Test Instrumentation Subsystem (TIS).	BOEING CO SEATTLE WA	Not Available	91	[D2-7868]	[USAF]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0426264	THE ENGINEERING PROPERTIES OF MOLYBDENU M AND MOLYBDENU M ALLOYS	9/20/1963	U	[A - 01]	The results of a state-of-the-art survey covering molybdenum and nine of its most promising alloys are presented. All data are given in tabular and graphical form covering some of the more important physical, mechanical, and metallurgical properties for each material. References are given at the conclusion of each material section.	BATTELLE MEMORIAL INST COLUMBUS OH DEFENSE METALS INFORMATIO N CENTER	[Schmidt, F. F.,Ogden, H. R.]	291	[DMIC-190]	[DDRE]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA211486	The NASA Experience in Aeronautical R&D: Three Case Studies with Analysis	3/1/1989	U	[A - 01]	Recent policy studies have failed to provide adequate guidance for planning and evaluating the nation's program of aeronautical research and development (R&D). In particular, the government's use of experimental systems to bridge the gap between laboratory research and operational systems remains controversial. This thesis used retrospective examinations of NASA's work in aircraft noise reduction, powered-lift technology, and hypersonic flight technology to analyze the impact and effectiveness of such programs under four general circumstances that may justify government involvement in a market-driven economy. It concludes that the NASA proof-of- concept program has had mixed results, with technical goals more successfully accomplished than policy goals. The public benefits of the successes, however, far outweigh the costs of the disappointments. The thesis concludes that such demonstration programs in aeronautical R&D should continue, with a series of analytical and institutional changes to couple them more closely with policy goals.	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	[Langford, John S., III]	225	[IDA-R- 319,IDA/HQ-87- 32596]	[87- 32596,IDA/HQ]	Not Available	Final rept. Jan 1985- May 1987
AD0616525	DYNA-SOAR ESCAPE SYSTEM PROPELLANT ACTUATED DEVICES,	5/1/1965	U	[A - 01]	Propellant actuated devices, originally developed for use in conventional aircraft, were subjected to special vibration tests in order to qualify them for use in the Dyna- Soar (X20) Escape System. Four initiators were developed for use in the system and the ejection seat catapult was tested under high g loads to determine safety of the defice if initiated during high down-load conditions. (Author)	FRANKFORD ARSENAL PHILADELPHI A PA	[Sutter,Ray mond C.]	68	[R-1757]	Not Available	Not Available	Not Available
AD0294960	IMPEDANCE OF A MONOPOLE ANTENNA WITH A RADIAL-WIRE GROUND SYSTEM ON AN IMPERFECTLY CONDUCTING GROUND	8/24/1962	U	[A - 01]	Not Available	COLORADO UNIV AT BOULDER ENGINEERING EXPERIMENT STATION	[JOHNK, C.T.A.,MAL EY, S.W.,KING, R.J.]	50	Not Available	[AFCRL]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA336686	Astronautics	9/1/1966	U	[A - 01]	The proceedings of many symposia or similar conferences or meetings are included.	AIR FORCE	Not	50	Not Available	[USAFA]	Not Available	Bibliography
	1960-1966.				In general such publications are listed under the appropriate subject division by the	ACADEMY	Available					rept. no 34,
					name of the primary sponsor. Additional approaches to the identification of the	COLORADO						
					publication of a specific symposium or conference are available in the main card	SPRINGS CO						
					catalog. In instances where annual assemblies were convened to cover advances in							
					approximately the same subject area, not all of the publications of the 1960-1966							
					period are listed. This is particularly the usage if the sponsorship remained							
					unchanged. Do not hesitate to ask one of our Reference Librarians for assistance in							
					the event you are unable to locate items or information. In Part IV the term							
					"astrophysics' as used in this bibliography is defined by essentially the definition that							
					is given in The space encyclopaedia; a guide to astronomy and space research, New							
					York, Dutton, 1957 and 1960. Definitions of the terms celestialmechanics and							
					"astrodynamicst" as given in Parts IV and V are from the National Aeronautics and							
					space Administration, Goddard Space Fight Center publication, Glossary of terms							
					identified in the first section of Dart II of this twenty-fine page glossary is fully							
					accesses of the subject are severed in our Special Pibliography. No. 28, OUTER SPACE							
					aspects of the subject are covered in our special bibliography No. 28, OOTER SPACE.							
ADA166037	Program	1/31/1986	U	[A - 01]	The Army, Navy, Air Force, Defense Advanced Research Projects Agency (DARPA).	DEPARTMENT	Not	292	Not Available	Not Available	Not Available	Not Available
	Solicitation				Defense Nuclear Agency (DNA), and Strategic Defense Initiative Organization (SDIO),	OF DEFENSE	Available					
	Number 86.1,				hereafter referred to as DOD Components, invite small business firms to submit	WASHINGTO						
	Small Business				proposals under this program solicitation entitled Small Business Innovation Research	N DC						
	Innovation				(SBIR). Subject to the availability of funds, DOD and its Components will support high							
	Research				quality research and development proposals on innovative concepts related to							
	Program.				important defense-related scientific or engineering problems. Objective so the DOD-							
					SBIR Program include stimulating technological innovation in the private sector,							
					strengthening the role of small business in meeting DOD research and development							
					needs, fostering and encouraging participation by minority and disadvantaged							
					persons in technological innovation, and increasing the commercial application of							
					DOD-supported research or research and development results. This document lists							
					topics for FY86 SBIR solicitation and the requesting agency addresses.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA123645	History of the Naval Air Development Center.	9/15/1982	U	[A - 01]	The Naval Air Development Center has evolved from a war-time privately-owned aircraft production plant into a complex RDT&E Naval Laboratory. This report is the result of a preliminary investigation of sources for a more detailed history of NADC. The report consists of two parts: a summary history of NADC, focusing on organizational changes; and, a guide to available sources, including organizational files, formal historical reports, in-house newspapers, bibliographies, taped interviews, records held by the Federal Records Center, and technical reports. (Author)	NAVAL AIR DEVELOPME NT CENTER WARMINSTER PA	[Misa,Tho mas,Todd, Ed]	110	[NADC-82251- 09]	Not Available	Not Available	Phase rept.,
AD0478215	AERODYNAMI C NOISE TESTS ON X-20 SCALE MODELS. VOLUME 2. SUMMARY AND ANALYSIS REPORT	11/1/1965	U	[A - 01]	Summaries of fluctuating pressure data presented in Volume I for 1/ 15th-scale X-20 models are made and discussed. Particular emphasis is given to the high over-all rms pressures measured aft of convex corners during transonic test conditions. Additional information relating to these pressures is presented in the form of pressure histories, peak-amplitude distributions, and power spectral densities. Fluctuating-pressure data and space correlation measurements for three closely spaced microphones are presented, illustrating the local nature of the high-level pressures. Analyses of trends for the maximum over-all rms pressure levels for the X-20 tests and other wind-tunnel tests are made. Design charts are developed for predicting maximum levels aft of cone-cylinder transition sections as functions of transition angle and distance downstream of the transition shoulder. Recommendations are made regarding future aerodynamic noise experimental programs.	BOEING AEROSPACE CO SEATTLE WA	[Wiley, David R.,Seidl, Michael G.]	67	[D2-23966- 2,AFFDL-TR-65- 192-VOL-2]	[TR-65-192-VOL- 2,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. Oct 1964- Aug 1965
AD0455328	THERMAL CONDUCTIVIT Y OF Q-FELT INSULATION AT ELEVATED TEMPERATUR ES	10/5/1964	U	[A - 01,23]	The thermal conductivity of Q-felt, a commercial micro-quartz fibrous insulation material, was evaluated. Tests were conducted on several densities each of as received and thermally stabilized material at elevated temperatures and at atmospheric and reduced pressures. Mean test temperatures ranged from 200 to 2560 F and reduced pressures to 0.1 mm/mercury were used. Curves have been prepared presenting the mean apparent thermal conductivity of both thermally stabilized and unstabilized Q-felt as a function of mean temperature, gas pressure and material density.	BOEING CO SEATTLE WA	[Eichenber ger, T. W.]	106	[D2-81285]	[AMC-AF]	Approved for public release; distribution is unlimited. Document partially illegible.	Final rept. 1 Apr-15 Aug 1964

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0631590	A CLOSED- FORM SOLUTION TO LIFTING REENTRY	12/1/1965	U	[A - 01]	This report derives closed-form expressions for predicting the longitudinal and lateral range attainable by lifting reentry vehicles. The resultant equations sensitively and accurately define the influence of L/D ratio, bank angle and entry velocity variations over a spectrum of values. To illustrate the usefulness of the method, the derived expressions were used to conduct a parametric reentry study covering a range of L/D ratios from 0.5 to 4. 0, bank angles from 0 to 75 degrees and entry velocities from 0.89V sub c to 0. 99V sub c. The results of this study are compared with those obtained from a high speed computer study using the same range of reentry conditions. As an aid to future investigators, a series of curves is presented giving longitudinal and lateral range values for various selected L/D, bank angle and entry velocity values. For those wishing to investigate reentry under conditions not covered by these curves, a detailed 'recipe' for utilizing the method is included in an appendix. A comparison of the results of this method with those of more rigorous methods for the same reentry conditions shows that the closed-form solution has sufficient accuracy and sensitivity to be of considerable value to those persons requiring a rapid, preliminary estimate of vehicle performance.	AIR FORCE FLIGHT DYNAMICS LAB WRIGHT- PATTERSON AFB OH	[Bell, Roland N.]	84	[AFFDL-TR-65- 65]	[AFFDL]	Approved for public release; distribution is unlimited.	Technical rept., Aug 1964-Mar 1965
AD0409960	REFRACTORY ALLOY FOIL ROLLING DEVELOPMEN T PROGRAM	5/20/1963	U	[A - 01]	The processing of three Niobium-base alloys and two tantalum-base alloys from ingot to 0.100 inthick x 12-inwide sheet is described. The alloys were Nb-10%W-1%Zr- 0.1%C (D-43), Nb-5%Mo 5%V-1%Zr (B-66), Nb-10%W-2-1/2%Zr (Cb-752), Ta-10%W, and Ta-8%W-2%Hf (T-111). The operations involved were: extrusion, hot-rolling, condi tioning, annealing, and cold-rolling. Rolling of small sheets of pure tungsten (0.060 in. thick and below) is described.	DU PONT DE NEMOURS (E I) AND CO BALTIMORE MD DU PONT METALS CENTER	[Symonds, John,Clark, J. S.,Patton, W. L.]	78	Not Available	[ASD]	Approved for public release; distribution is unlimited.	Interim technical documentary progress rept., 18 Feb- 20 May 1963
AD0273679	APPLIED RESEARCH MANAGEMEN T ABSTRACT BULLETIN. PART I. ABSTRACTS 1- 1203 THROUGH 1- 1325	1/1/1962	U	[A - 01]	Energy conversion, Thermionic converters.	AEROSPACE CORP EL SEGUNDO CA	[ANDREWS , K.B.,CROW , N.B.]	129	[TDR-930(2701- 01)TN-1]	[AFSC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0437684	STRUCTURAL FASTENING TECHNOLOGY	11/4/1963	U	[A - 01]	A survey of available refractory materials, user refractory fastener requirements, and refractory coatings was conducted. The results of the survey and resultant recommendations are included in the report. Work was started at Vitro on the actual requirements of a coated refractory fastener in a joint. TZM material with Vitro coating was used. Additional work will be forthcoming on this. Fasteners of Cb 752 were supplied to Martin Baltimore for a structural applications study. Additional Cb 752 is on order for coating studies and a test program on electrophoretically coated threaded fasteners for mechanical properties through 2800 F. (Author)	STANDARD PRESSED STEEL CO JENKINTOWN PA	[Gowen, E. F., Jr.,Ortner, M.]	82	Not Available	[AFFDL]	Approved for public release; distribution unlimited.	Progress rept. no. 1, July-Oct 63
AD0756499	Hypersonic Lifting Body Windward Surface Flow- Field Analysis for High Angles of Incidence	2/1/1973	U	[A - 01]	Formulation and application of a windward surface flow-field (inviscid and viscous) analysis is presented for general lifting body configurations at high angles of incidence under hypersonic perfect gas conditions. The technique applies a strip theory concept, leading to an infinite extent yawed body treatment applied in the windward surface crossflow plane for both the inviscid and viscous (boundary layer) flow fields. The boundary-layer analysis is based on the governing equations for yawed blunt body boundary layers.	ARNOLD ENGINEERING DEVELOPME NT CENTER ARNOLD AFB TN	[Adams, Jr., John C.,Martind ale, William R.]	234	[AEDC-TR-73-2]	[AEDC]	Approved for public release; distribution is unlimited.	Final rept. Jul 1971-Jul 1972
ADA954527	The USAF Scientific Advisory Board: Its First Twenty Years. 1944-1964	2/1/1967	U	[A - 01]	This document traces the tradition from its genesis through the 20th anniversary of its creator and most zealous guardian-the Scientific Advisory Board to the Chief of Staff and Secretary of the Air Force. The USAF Scientific Advisory Board was founded to bring the soldiers and scientists together to exchange their scientific and warfare operations knowledge in order to solve Air Force Research and Development problems.	SCIENTIFIC ADVISORY BOARD (AIR FORCE) ARMY SCIENCE BOARD WASHINGTO N DC	[Sturm, T. A.]	203	Not Available	[USAF]	Approved for public release; distribution is unlimited.	Final rept.
AD0855582	Flight Simulators. A Review of the Research and Development	7/1/1968	U	[A - 01]	The report presents a general review of the research and development of flight simulators and related areas sponsored by military and other government agencies since 1949. The use of simulators for flight training is emphasized. The report does not consider mathematical models and space flight simulators. The topics include: (1) Visual and Motion Simulation, (2) Transfer of Training, (3) Utilization and Evaluation, and (4) Computers. An annotated bibliography of unclassified technical reports reviewed is included for each of the topics. The Defense Documentation Center accession number of each report is provided to facilitate the acquisition of microfilm copies of desired documents by United States military and other government agencies.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Valverde, Horace H.]	159	[AMRL-TR-68-97]	[AMRL]	Approved for public release; distribution is unlimited.	Final rept. Oct 1967- Mar 1968

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0297373	EQUIRIPPLE TRANSMISSIO N LINE NETWORKS	1/24/1963	U	[A - 01]	Not Available	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[KOHLER, WERNER,C ARLIN, HERBERT J.]	100	[PIBMRI-1089- 62,RADC-TDR-62- 629]	[TDR-62- 629,RADC]	Approved for public release; distribution is unlimited.	Research rept.
ADA198665	Aerodynamics of Hypersonic Lifting Vehicles: Conference Proceedings Held at the Fluid Dynamics Panel Symposium in Bristol, United Kingdom on 6- 9 April 1987	11/1/1987	U	[A - 01,53]	The symposia was conducted at the outset of a new era in hypersonic aerodynamics. The proceedings therefore present a valuable stock taking of the status of the field in a comparable lull in the last decade. A particular gap exists in the field of experimental facilities. At the same time, new developments in computational fluid dynamics and experimental techniques provide possibilities that did not exist ten years before. The papers presented were grouped in the fields: Experimental facilities; Experimental techniques and results; Computational techniques; Design methods; and New projects. The most, significant result of the symposium was a perspective of the needs for special effort in the near future.	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPME NT NEUILLY- SUR-SEINE (FRANCE)	Not Available	558	[AGARD-CP-428]	[AGARD]	Approved for public release; distribution is unlimited. NATO.	Not Available
AD1104981	Explosive Equivalence of Hydrocarbon Propellants	4/15/2019	U	[A - 01]	The purpose of this paper is to report the analysis of test and launch vehicle flight failure data for the explosive equivalence ofLO2/RP-1 and other hydrocarbon-based energetic liquid bi-propellants. Revision to the values used in DESR 6055.09 [1] arerecommended. The focus will be on revisions for LO2/RP-1 but other combinations (LO2/Ethanol and LO2/JP-5) will beaddressed. This revision is intended to apply to DoD facilities siting and construction for operations involving these energetic liquids. Itgoverns the uses of energetic liquids for space launch vehicles, rockets, missiles, and associated static test installations. Theyield criteria will envelope test facilities and range launch pads for the pre-launch/pre-ignition state, on-pad engine firingconditions, and post-launch hazards relative to near-pad incidents.	The Aerospace Corporation El Segundo United States	[Tomei,E J,Nichols,Ja mes T]	63	[TR-2019-00959]	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0421746	LEADING	1/7/1963	U	[A - 01]	A series of five leading edge concepts were subjected to three separate environment	BOEING CO	[Bowers,	146	[D2-80085]	[USAF]	Approved for	Not Available
	EDGES				test programs. Each configuration was exposed to a sonic environment, a thermal	SEATTLE WA	D. A.]				public	
	DEVELOPMEN				gradient test, a second sonic exposure, and finally, a static load test. The purpose of						release;	
	T - DYNA				these tests was to evaluate these five basic leading edge concepts and their various						distribution is	
	SOAR				design features to obtain information for a production configuration and to verify						unlimited.	
					analytical procedures.							
AD0400112	HISTORY OF	3/1/1963	U	[A - 01]	Not Available	AIR FORCE	[Eppley,	55	[TIM-62-1002]	[AFFTC]	Approved for	Technical
	THE USAF					FLIGHT TEST	Charles V.]				public	Information
	EXPERIMENTA					CENTER					release;	Memo.
	L FLIGHT TEST					EDWARDS					distribution is	
	PILOT SCHOOL					AFB CA					unlimited.	
	4 FEBRUARY											
	1951-12											
	OCTOBER											
	1961											
AD1030463	America's Air	6/1/2016	U	[A - 01]	The United States Air Force failed in its early attempts to put Airmen into space	SCHOOL OF	[Sanford.R	148	Not Available	Not Available	Approved For	Technical
	Force. The	-, ,	_		during the late 1950s and early 1960s. The reason was simple: the service lacked a	ADVANCED	vanl	_			Public	Report
	Future Calls:				clear mission requirement for emplacing its personnel on orbit. The exorbitant cost	AIR AND	/· .				Release:	
	An Evidentiary				outweighed the possible benefits of a manned military space program. This study	SPACE					,	
	, and				attempts to answer the question of whether the strategic environment (to include	STUDIES, AIR						
	Theoretical				current space policy, space strategy, the United States space activities, other	UNIVERSITY						
	Analysis Of				spacefaring actors activities, and the natural environment) has changed such that the	MAXWELL						
	The Roles And				Air Force can now justify establishing its astronaut corps. Since the last attempts at	AIR FORCE						
	Missions Of A				building an Air Force astronaut corps, developments in commercial, civil, and military	BASE United						
	USAF				space activity suggest that the time has again come to consider the need for Airmen	States						
	Astronaut				astronauts. While the strategic environment could necessitate cultivating an							
	Corps				astronaut corps, the international political consequences may negate any advantage							
					of doing so. Thus, this work also investigates the theory-based implications of a USAF							
					astronaut corps, specifically within the roles of using astronauts as part of a space							
					weapon system and within the context of a space police, or guardian, force.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		1	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0425931	EXTERNAL SURFACE PANELS (NON- INSULATED) DEVELOPMEN T - DYNA- SOAR	7/23/1963	U	[A - 01]	Not Available	BOEING CO SEATTLE WA	[Schneider, R. D.]	396	[D2-80084-VOL- 1]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD1079471	Can We Improve Human Access to Space Space Posture Theory: A Conceptual Framework for Understanding Human Space Program Design	6/1/2018	U	[A - 01]	The world has entered a second space age. America's space program is undergoing significant restructuring to address the shifting political priorities, resulting in new ways to access space. Currently, a renewed space strategy is breaking the bonds of government constraints and paving pathways for America to re-emerge as the leading spacefaring nation by leveraging commercial space exploration. The relationship between the American government and space exploration is now moving forward, finally getting over Apolloism. As a result, technological advances are cutting the cost, allowing a crowd of new actorsspace start-ups, entrepreneurs, and developing countriesinto the space environment. In America, a growing space industry is creating connections from the government to the private sector, shaping the strategic means by which humans access space. This shift in space strategy leans toward an open market laissez-faire style approach, leveraging the positive attributes commercial industries backed by government experience. This thesis tells the story of the United States governments evolving role in human spaceflight, and presents a theory to explain it. The resulting Space Posture Theory provides a framework for incorporating prestige, innovation, and funding as being instrumental in shaping access to space. The evolving combination of these three factors serves as an explanation for the decline in government involvement and the rise of the private sector as a tectonic shift in the new space age. Understanding Space Posture Theory will aid strategic planning efforts towards future human space exploration and America's return to the forefront of space dominance.	AIR UNIV MAXWELL AFB AL AFB United States	[Curtis,Jaso n B.]	157	Not Available	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA302391	Proceedings of the International Electronic Circuit Packaging Symposium (4th) on Advances in Electronic Circuit Packaging Held in Boulder, Colorado on 14-16 August 1963. Volume 4,	8/1/1963	U	[A - 01,23]	Not Available	Author COLORADO UNIV AT BOULDER	Authors [Marrese, Michael A.]	503	Numbers Not Available	[XD]	Statement Availability: Document partially illegible.	Not Available
AD1056938	History of the Navy at China Lake, California. Volume 4. The Station Comes of Age: Satellites, Submarines and Special Operations in the Final Years of the Naval Ordnance Test Station, 1959- 1967	12/31/2018	U	[A - 01]	This fourth volume in the history of the Navy at China Lake is a must-read for Navy military and civilian leadership today. The Station Comes of Age examines the years between 1959 and 1967, a critical era in the China Lake story. Interestingly, this timeframe is also pivotal in our nations history, encompassing the Cold War, the space race, and the Vietnam conflict. This fourth volume of our history meets the high standards established in the first three, and it candidly captures China Lakes contributions to this interval in history. Of equal importance is Cliff Lawsons portrayal of the significance of the Navys in-house research, development, test, and evaluation capabilities in the transition and fielding of new, innovative weapons and technology.	NAVAL AIR WARFARE CENTER WEAPONS DIV CHINA LAKE CA CHINA LAKE United States	[Lawson,Cli ff]	782	Not Available	Not Available	Approved For Public Release;	Technical Report,01 Jan 1959,31 Dec 1967

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA421942	On Space	6/1/1998	U	[A - 01]	Ever since President Ronald Reagan's speech on ballistic missile defense (BMD) in	AIR UNIV	[Lupton,	95	Not Available	[AUP]	Not Available	Research
	Warfare: A				March 1983, the military use of space has become a hotly debated topic. President	PRESS	David E.]					paper
	Space Power				Reagan did not mention space, only a plan to place renewed emphasis on the	MAXWELL						
	Doctrine				development of a BMD technology. Nevertheless, the speech was promptly dubbed	AFB AL						
					"Star Wars" because the space environment seems to be the most likely place to							
					deploy a ballistic missile defense system, and several administration officials							
					mentioned space-based BMD systems as technological possibilities. Although							
					Americans are accustomed to public debate concerning the merits of proposed							
					weapon systems, the Star Wars controversy covers issues broader. Will space-based							
					weapon systems allow a new strategy to replace assured destruction? Are we							
					prepared to militarize space, an environment that has been treated as a war-free							
					sanctuary since the Eisenhower administration? Are space-based weapons that have							
					been proposed for BMD purposes technologically feasible? This paper provides							
					exceptional insights into the various doctrines that do or would govern military affairs	5						
					in the space environment. Its strengths are the author's ability to articulate the							
					various doctrines, the historical perspective from which these doctrines are							
					examined, and the broad context from which these doctrines are viewed. The							
					prescription for the space power doctrine presented in this paper is not radically							
					different from the path the United States has already taken. It calls for a complete							
					space transportation system to augment the space shuttle, a system which includes							
					space stations and a family of high- and low-thrust upper stages that will help							
					maintain this nation's technological control of the environment. While this space							
					transportation system will support both civilian and military users, we should develop	1						
					a separate and primarily military vehicle, the aerospace plane, as soon as possible.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA044582	Proceedings of the 1977 Image Conference Held at	5/1/1977	U	[A - 01]	The 1977 Innovative Modeling and Advanced Generation of Environments (IMAGE) Conference is the first conference specifically concerned with the imagery produced by computer generated visual systems relative to flight simulation. The purpose of the conference is to promote an exchange of information and inspire investigations into areas of needed flying training research. With the increasing number of real-time	AIR FORCE HUMAN RESOURCES LAB WILLIAMS	Not Available	315	Not Available	[AFHRL/FT]	Approved for public release; distribution is unlimited.	Not Available
	Williams Air Force Base, Arizona on 17- 18 May 1977				computer generated visual simulators in the field, it is necessary to expand communications among the user organizations and create a forum to present relevant issues. Pertinent topics include but are not limited to: efficient and effective modeling techniques; environmental data base design and structure; psychological determination of visual cue requirements; and software/hardware developments directly resulting in an expansion of image capability and/or utility.	AFB AZ FLYING TRAINING DIV						
AD0686738	THE INFLUENCE OF SHOCK WAVE- BOUNDARY LAYER EFFECTS ON THE DESIGN OF HYPERSONIC AIRCRAFT	3/1/1969	U	[A - 01]	The design of aircraft for sustained operation at hypersonic speeds requires the understanding of aerodynamic heating generated through interfering flow fields. Such interactions not only determine the required level of vehicle thermal protection but also create severe gradients of temperature along skin panels. An extensive experimental program supporting the conceptual design of these vehicles was completed. Experimental results were generated on models illuminating the basic features of both two- and three-dimensional interactions with results applicable to the design of hypersonic aircraft. The report presents these data and correlations with theory in the Mach number range 6 through 10. Results indicate the applicability of current design practices, areas requiring further investigation, and the problems involved in interpretation and application of interference data from hypersonic facilities to the desired free flight condition.	AIR FORCE FLIGHT DYNAMICS LAB WRIGHT- PATTERSON AFB OH	[Neumann, Richard D.,Burke, Gerald L.]	54	[AFFDL-TR-68- 152]	[AFFDL]	Approved for public release; distribution is unlimited.	Technical rept. Jan-Jul 1967

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0477775	HOT STRUCTURES THERMAL CORRELATION	11/1/1965	U	[A - 01]	Test data generated during the early X-20 (Dyna-Soar) phases are compared with therma2l analysis methods evolved throught the X-20 Program. Data are taken from the Hot Structures concept model test program. This model was similar in shape and concept to the X-20 design. The thermal analysis approach and methods used follow closely those which created the X-20 design temperatures. Generally good correlation is shown for two-dimensional cross-sectional cuts, a simple three-dimensional nose region analysis, simple structural joint analyses, and certain other detail areas. Some additional light is shed on joint interface effects. The only major problem evolved was convection currents in and around the test specimen. This program in combination with an earlier insulated panel correlation program provides general confidence in the X-20 thermal analysis approach and methods. (Author)	BOEING CO SEATTLE WA	[Clawson, James F.]	244	[D2-90709- 1,AFFDL-TR-65- 142]	[TR-65-142]	Not Available	Final rept. Oct 64-May 65,
ADA236844	Space Control and the Role of Antisatellite Weapons	5/1/1991	U	[A - 01]	The United States seems headed toward a period of military austerity reflected in a substantially reduced force structure. As terrestrial weapons systems are reduced, space systems increase in numbers and applications. This study represents the first effort to tie together, in one document, US doctrine, policy, and implementation planning for the use of offensive weapons in space. Structured around the concept of space control, the author creates a picture of offensive space operations that are quite similar to traditional air superiority operations. This study provides a timely guide to the evolution of space as another theater of warfare. It identifies key doctrinal and operational challenges that lie ahead.	AIR UNIV MAXWELL AFB AL AIRPOWER RESEARCH INST	[Petersen, Steven R.]	127	[AU-ARI-90-7]	[CADRE]	Approved for public release; distribution is unlimited.	Research rept.,
AD0450460	SUMMARY OF THE AEROTHERMO ELASTIC DEVELOPMEN T PROGRAM FOR THE X- 20A (DYNA- SOAR)	9/1/1964	U	[A - 01]	This report summarizes the aerothermoelastic development status of the X-20A (Dyna-Soar) at the time the program was terminated, December 1963. Analytical and test techniques for lifting surface flutter, control surface buzz, panel flutter, and air vehicle flutter are discussed. While analysis and limited scale testing indicated a satisfactory design, necessary development testing to verify the desing had not been completed. One exception was in the area of panel flutter where high confidence existed in success. Re-entry temperatures did not appear to be a significant direct concern from the point of view of flutter. The difficulty of employing control surface dampers apparently poses a special concern for designers of reentry vehicles employing aerodynamic control surfaces.	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OH	[Baird, Weldon R.]	32	[TDR-64-30]	[SEG]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA593643	High Frontier: The Journal for Space & Missile Professionals. Volume 1, Number 2, Fall 2004	1/1/2004	U	[A - 01]	Not Available	AIR FORCE SPACE COMMAND PETERSON AFB CO	Not Available	37	Not Available	[AFSPACECOM]	Approved for public release; distribution is unlimited.	Not Available
ADA466195	Catalog of Air Force Weather Technical Documents, 1941-2006	5/19/2006	U	[A - 01]	This catalog lists unclassified technical documents produced by of for the Air Force Weather Agency and its subordinate units from 1941 through 2006. Documents listed include technical reports, technical notes, data summaries, project reports, special studies and forecaster memos along with availability data and ordering instructions.	AIR FORCE WEATHER TECHNICAL LIBRARY ASHEVILLE NC	[Swanson, Gary]	182	[AFWTL/TC- 06/001]	[AFWTL]	Approved for public release; distribution is unlimited.	Not Available
ADA419590	Von Karman Gas Dynamics Facility ARO, Inc. Technical Developments	1/1/1964	U	[A - 01]	The von Karman Gas Dynamics Facility (VKF) is one of the four major laboratories of the Arnold Engineering Development Center (AEDC), Air Force Systems Command, USAF, located near Tullahoma, Tennessee. The test facilities at the AEDC, including the VKF, are operated by a private company, ARO, Inc. (subsidiary of Sverdrup and Parcel, Inc.) under a contract with the U.S. Air Force. The AEDC's main purpose is to provide advanced and large-scale test facilities for use by the Air Force, other government agencies, and contractors. The VKF's responsibility is in the fields of supersonic and hypersonic aerodynamics and hypervelocity impact. The tests which have been conducted in the VKF included support for the following major weapon and space systems: USAF; F103, F105, F106, B58, B70, X15, Dynasoar, Atlas, Titan, Minuteman, Skybolt U.S. Army: Redstone, Pershing, Nike-Zeus U.S. Navy: Polaris, Sparrow NASA: X15, Mercury, Gemini, Apollo, Saturn Actually, components of practically all of the existing and now planned weapon and space systems have been tested in the VKF.	ARNOLD ENGINEERING DEVELOPME NT CENTER ARNOLD AFS TN	[Lukasiewi cz, J.]	83	Not Available	[AEDC]	Not Available	Not Available

Descriptive	Distribution	Monitor Series	Report	Page	Personal	Corporate	Abstract	Distribution	Report	Report Date	Title	Accession
Note	Statement		Numbers	Count	Authors	Author		Codes	Class			Number
Final rept.,	Not Available	[AL/CF]	[AL/CF-SR-1995-	393	[Pilmanis,	ARMSTRONG	The altitude ceiling for selected high performance aircraft, e.g., the F-22 and	[A - 01]	U	12/1/1995	Proceedings of	ADA302855
			0021]		Andrew	LAB WRIGHT-	Eurofighter 2000 has been raised from 50,000 to 60,000 feet The impact of this				a Workshop	
					A.,Sears,	PATTERSON	change is complex and could impose decisive limitations with regard to crew safety				on the Life	
					William J.]	AFB OH	issues. Detailed exposure limits, specifications and standards are required for the				Support and	
						CREW	development of life support equipment, operational procedures, plans and training				Physiological	
						SYSTEMS	programs for exposure to these high altitude conditions. Developing these limits,				Issues of Flight	
						DIRECTORATE	specifications and standards requires a comprehensive research database for				at 60,000 Feet	
							effective solutions. Over forty key individuals were brought together for a three day				and Above:	
							workshop at the Armstrong Laboratory, Brooks AFB, Texas on 13 to 15 June 1995, to				Raising the	
							discuss, coordinate and provide initial input for tracking life Support				Operational	
							interrelationships which might have the potential to evolve into an operational limits				Ceiling Held at	
							database. The objectives of the workshop were to encourage direct discussion across				Brooks Air	
							disciplines by: (1) outlining the rationale for operating at higher altitudes as well as				Force Base,	
							current life support equipment capabilities under development; (2) reviewing and				Texas on 13-	
							integrating the physiological and life support requirements for increasing the				15 June 1995.	
							operational altitude; (3) establishing limitations, additional research and equipment					
							requirements and trade studies and; (4) providing a timely publication covering					
							relevant issues to prevent crew safety from becoming a limiting factor in future high					
							altitude operations.					
Not Available	Not Available	[XD]	[JPRS-USP-82-	112	Not	JOINT	This report contains information concerning the science and technology of Central	[A - 01]	U	6/10/1992	JPRS Report,	ADA335707
			004]		Available	PUBLICATION	Eurasia's space technology. Specific topics include: (1) manned mission highlights, (2)				Science &	
						S RESEARCH	space sciences, (3) interplanetary sciences, (4) space engineering, (5) space				Technology,	
						SERVICE	applications, (6) space policy, administration, and (7) life sciences.				Central	
						ARLINGTON					Eurasia: Space	
	1					VA						
	1											
Not A	Not Available	[XD]	[JPRS-USP-82- 004]	112	Not Available	JOINT PUBLICATION S RESEARCH SERVICE ARLINGTON VA	<ul> <li>database. The objectives of the workshop were to encourage direct discussion across disciplines by: (1) outlining the rationale for operating at higher altitudes as well as current life support equipment capabilities under development; (2) reviewing and integrating the physiological and life support requirements for increasing the operational altitude; (3) establishing limitations, additional research and equipment requirements and trade studies and; (4) providing a timely publication covering relevant issues to prevent crew safety from becoming a limiting factor in future high altitude operations.</li> <li>This report contains information concerning the science and technology of Central Eurasia's space technology. Specific topics include: (1) manned mission highlights, (2) space sciences, (3) interplanetary sciences, (4) space engineering, (5) space applications, (6) space policy, administration, and (7) life sciences.</li> </ul>	[A - 01]	U	6/10/1992	Brooks Air Force Base, Texas on 13- 15 June 1995. JPRS Report, Science & Technology, Central Eurasia: Space	ADA335707

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0403814	SHOCK, VIBRATION AND ASSOCIATED ENVIRONMEN TS. PART 2	3/1/1963	U	[A - 01]	Not Available	OFFICE OF THE SECRETARY OF DEFENSE (RESEARCH AND ENGINEERING ) WASHINGTO N DC	Not Available	308	[BULL-31-PT-2]	[DDRE]	Approved for public release; distribution is unlimited.	Not Available
ADA335711	JPRS Report, Science & Technology, Central Eurasia: Space	1/27/1992	U	[A - 01]	This report contains information concerning the science and technology of Central Eurasia's space technology. Specific topics include: (1) manned mission highlights, (2) space sciences, (3) interplanetary sciences, (4) space engineering, (5) space applications, and (6) space policy, administration.	JOINT PUBLICATION S RESEARCH SERVICE ARLINGTON VA	Not Available	76	[JPRS-USP-92- 001]	[XD]	Not Available	Not Available
ADA281988	Struggling Towards Space Doctrine: U.S. Military Space Plans, Programs, and Perspectives During the Cold War	5/1/1994	U	[A - 01]	Not Available	AIR FORCE INSTITUTE OF TECHNOLOGY WRIGHT- PATTERSON AFB OH	[Hays, Peter L.]	519	[AFIT/CI/CIA-94- 083]	[AFIT]	Approved for public release; distribution is unlimited.	Doctoral thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0651390	LECTURES IN AEROSPACE MEDICINE, 16- 20 JANUARY 1961	1/20/1961	U	[A - 01]	Contents: Biophysics of the space environment; Celestial bodies the sun, the moon, Mars and Venus; The upper atmosphere as observed with rockets and satellites; Corpuscular radiations in space; Jet streams of solar flames; Bioradiology in space and in the laboratory; Propulsion systems; The status of man's advance on the vertical frontier; The 'G' spectrum in space flight dynamics; Sealed cabin experimentation; Experimental approach to the psychophysiological problem of manned space vehicle; Biological systems in space vehicles; Sterilization of space vehicles: The problem of mutual contamination; Future manned aircraft; Medical support at missile bases; Biological experiments with space probes; Radiobiological experiments in Discoverer satellites: physical dosimetry; Clostridia spore labilization: a biological system to quantitate radiation; The effect of space flights on living human cells aboard the Discoverer vehicle; Experiments with photosynthetic organisms in Discoverer vehicles; Dyna-soar pilot training; Future extended space operations; Legal problems of future space explorations and travel.	SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TX	Not Available	612	Not Available	[SAM]	Approved for public release; distribution is unlimited.	Not Available
ADA441127	The Hypersonic Revolution: Case Studies in the History of Hypersonic Technology. Volume 1: From Max Valier to Project PRIME (1924-1967)	1/1/1998	U	[A - 01]	The history of hypersonics teaches that faith in, and unquestioning acceptance of, a hypersonic future is akin to belief in the Second Coming: one knows and trusts that it will occur, but one can't be certain when. That hypersonics is yet again in a period of renewal echoes a familiar theme in the history of hypersonic research and development. As programs have waxed and waned, the field has progressed through various cycles of growing interest and rising optimism followed by cancellation, pessimism, and slow rebuilding of interest. For example, at the time the first two volumes of The Hypersonic Revolution: Case Studies in the History of Hypersonic Technology were published, it appeared that the field was, at last, on the verge of achieving what had been its most long-sought goal: developing hardwarea genuine transatmospheric vehicle, the X-3O, that could take off from the earth under its own power (using air breathing propulsion) fly through the atmosphere into space, and then return through the atmosphere to land, and possible complementary European and Asian vehicles as well.	AERONAUTIC AL SYSTEMS CENTER WRIGHT- PATTERSON AFB OH	[Hallion, Richard P.]	853	Not Available	[AFHSO/DC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0404259	METEROIDS AS A POSSIBLE HAZARD TO SPACE VEHICLE OPERATIONS: AN ANNOTATED BIBLIOGRAPH Y	5/1/1963	U	[A - 01]	A bibliography is presented of meteoroids as a possible hazard to space vehicle operations. Citations to meteors and other interplanetary debris have been included when the material was of relevance to meteoroids as well. Citations to combined environmental parameters affecting the reliability of space vehicles in flight have also been included when meteoroids constituted one of the parameters. The period covered is from 1956 through 1962, with a few earlier citations.	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Gros, Charles G.]	46	[3-35-63-1,SB-63- 1]	USAF]	Approved for public release; distribution is unlimited.	Not Available
AD1018856	Hypersonic Flight: Time To Go Operational	2/14/2013	U	[A - 01]	Anti-Access and Area Denial threats are increasing and could jeopardize the ability of the US Air Force to effectively conduct global strike by 2032. Scramjet powered hypersonic flight could be a key capability by reducing time to strike and increasing survivability. Historically, the key challenges preventing hypersonic flight have been in the areas of propulsion, heat, plasma interference, and weapons employment. This paper examines the current status of these challenges and the potential to solve them for a hypersonic cruise missile application. In particular, the success of the X- 43A and X-51A scramjet demonstrations are considered as establishing the foundation for a hypersonic cruise missile. While current technical maturity supports a cruise missile application, a hypersonic bomber would still be a high risk proposition and likely would be more expensive than a standoff bomber and hypersonic cruise missile combination. Recommendations include sustained research and development funding for hypersonic technology, a hypersonic cruise missile technical development program in support of a hypersonic cruise missile acquisition program, and sustained procurement of the missile to ensure a sufficient inventory is maintained.	Air War College Air University Maxwell AFB United States	[Dietrick,R obert A.]	30	Not Available	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0332709	MINUTES OF THE SECOND EXPLOSIVES SAFETY SEMINAR ON HIGH-ENERGY SOLID PROPELLANTS, HELD AT THE REDSTONE ARSENAL, HUNTSVILLE, ALABAMA, ON 12-14 JULY 1960(U)	12/1/1960	U	[A - 01]	Not Available	DEPARTMENT OF DEFENSE EXPLOSIVES SAFETYBOAR D ALEXANDRIA VA	Not Available	207	Not Available	[DDESB]	Approved for public release; distribution unlimited.	Not Available
AD0476615	DEVELOPMEN T OF AIRCRAFT SHOCK ABSORBERS USING FRICTION AS THE ENERGY DISSIPATOR	10/1/1965	U	[A - 01]	The purpose of this study is to evolve and evaluate a number of preliminary aircraft landing gear designs or concepts utilizing shock absorbers based on friction energy absorption methods adaptable to high temperature use (1000 F and up). Initial studies developed as many concepts as possible, without attempting to size components, but merely to portray an idea. Four concepts were selected from the initial study and preliminary designs of the selected concepts were prepared based on landing and take-off characteristics of the USAF F-100 aircraft. Scale model drawings were then developed based on the full scale landing gear designs to experimentally evaluate the proposed designs. Data indicates that friction methods have extremely high energy absorption capacities, that the coefficient of friction is relatively insensitive to temperature variations and that a centrifugally controlled friction device has sufficient advantages to warrant further research effort.	CLEVELAND PNEUMATIC CO OH	[Fricker, Walter W.]	82	[AFFDL-TR-65- 96]	[TR-65-96,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. Jul 1964-Apr 1965

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0276205	Proceedings of the Seventh Conference on Radio Interference Reduction and Electronic Compatability Held at Grover M. Hermann Hall, Illinois Institute of Technology, Chicago November 7 - 9, 1961.	11/1/1961	U	[A - 01]	Contents: DOD compatibility program Compatibility analysis Antenna system analysis Measurement techniques and analysis Spurious emission and susceptibility Radiation effects The electromagnetic environmental test facility	IIT RESEARCH INST CHICAGO IL	Not Available	894	Not Available	[DA]	Not Available	Not Available
AD0333266	Environmental Control Systems Selection for Manned Space Vehicles. Volume II: Appendix I, Missions, Vehicles, and Equipment	10/1/1962	U	[A - 01]	Four versions of manned orbital reentry basepoint vehicles are developed for the purpose of providing reference points for determination of the thermal and atmospheric control requirements of realistic vehicles. Two of the vehicles (i.e., Vehicles 1A and 1B) were developed in Phase I of this study series and will only be summarized here. The remaining two vehicles (Ballistic Reentry and Lenticular Reentry) are presented in greater detail. In addition to the development of specific vehicles, general data have been compiled on the more important aspects of manned space vehicle design, (i.e., flight vehicle power, structures, effects of meteoroids, mission equipment, and examination of these general data for environmental requirements.)	NORTH AMERICAN AVIATION INC LOS ANGELES CA LOS ANGELES DIV	[Oberto, R. J.]	99	[ASD-TR-61-240- V2-PT2]	[TR-61-240-V2- PT2,ASD]	Approved for Public Release; Distribution Unlimited.	Technical rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA477042	The Need for Speed. Hypersonic Aircraft and the Transformatio n of Long Range Airpower	6/1/2005	U	[A - 01]	Transformation to the next level of technology is a pressing issue for the Air Force's strategic planers. Just how much of a leap in technology do engineers try to take when designing a new system? The answer depends if new discoveries have increased the technology available when they design a new system. However, it makes little sense to build new equipment that does not provide an improved capability or a more reliable system. That being said, the next long-range strike platform could take that technological leap and be a very fast near-space vehicle. Past events, such as the 2004 X-43 launch, show that technological progress is occurring on critical hypersonic components. While this is not a, paper on the technology per se, it covers the implications of building and operating a "hypersonic" bomber force. This paper addresses the question of whether or not the hypersonic bomber is worth the required investment and covers several aspects involved with hypersonic bomber operations. The purpose of this study is to determine if the advantages gained from developing a hypersonic fleet outweigh the disadvantages. The author concludes that the advantages gained from developing a hypersonic fleet outweigh the platform's disadvantages.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIR AND SPACE STUDIES	[Johnson, Kenneth F.]	73	Not Available	[AU-SAASS]	Approved for public release; distribution is unlimited.	Master's thesis
ADA552932	Coupled Radiation- Gasdynamic Solution Method for Hypersonic Shock Layers in Thermochemi cal Nonequilibriu m	12/1/2011	U	[A - 01]	The purpose of this research was to develop a highly accurate computational method for calculating the nonequilibrium radiative heat transfer within reentry shock layers. The nonequilibrium state of the flowfield was solved using the multispecies multitemperature nonequilibrium flow solver NH7AIR which is capable of separately tracking the vibrational energy of each diatomic species and the energy of the free electrons. The calculation of radiative heat transfer was performed by utilizing the detailed line-by-line spectral radiation solver SPRADIAN. Two radiative transport schemes were implemented in this coupled code. The first scheme was the standard tangent slab solution method. The second scheme was a finite volume method scheme for radiative heat transfer (FVMR). Data from the FIRE II flight experiment were used to validate the computer code. Coupled results obtained utilizing the tangent slab method exhibited a high degree of agreement with these experimental data. The utility of the FVMR scheme was also examined in an uncoupled implementation. Together, the enhancement of the nonequilibrium thermal modeling, the use of a highly accurate spectral radiation solver and the development of a conservative scheme for radiative transport constitute a significant improvement in current capabilities available for modeling the radiating shock layers which accompany reentry flight conditions.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH GRADUATE SCHOOL OF ENGINEERING AND MANAGEME NT	[Martin, Jr, Christophe r L.]	175	[AFIT/DS/ENY/11 16]	[AFOSR/VA]	Approved for public release; distribution is unlimited.	Doctoral thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA344697	The Origins of U.S. Space Policy: Eisenhower, Open Skies, and Freedom of Space.	1/1/1992	U	[A - 01]	During World War II, America's civilian and military leadership embraced scientific research for a multitude of advanced weapons. Indeed, at war's end in 1945, General H. H. Arnold, commander of the Army Air Forces, could confidently assure Secretary of War Robert Patterson that the United States would shortly build long-range ballistic missiles to deliver, atomic explosives and "space ships capable of operating outside the atmosphere. Thirteen years later, both of the programs that Arnold forecast were underway. This period, the immediate prelude to the space age, spawned America's civil and military space programsprograms that were in the beginning opposite sides of the same coin. Elements of these programs, authorized and framed by one American president, would become instrumental in forewarning of surprise attack, monitoring compliance with international treaties, and maintaining a delicate peace between the Soviet Union and the United States. For contemporary reasons of national security, the executive action that shaped this enterprise and the space policy that President Dwight D. Eisenhower and his advisors created for it were obscured even to many of those directly involved.	RAND CORP WASHINGTO N DC	[Hall, R. C.]	29	Not Available	[XD]	Not Available	Not Available
AD0296896	INVESTIGATIO N OF A PERSONNEL RESTRAINT SYSTEM FOR ADVANCE MANNED FLIGHT VEHICLES	12/1/1962	U	[A - 01]	To develop new concepts for personnel restraint, the following studies were conducted. Characteristic accelerations were defined for advanced manned flight systems. Accelerations of 8 to 12 G which are associated with ballistic reentry, produce the most severe physiological stress. Landing impact, generating low total energy accelerations of 60 to 100 G's peak on the capsule, produced the most severe structural loading. Human tolerance to acceleration was studied by a survey of the available test data and a structural analysis of the humann body. Test data for high peak magnitude low total energy acceleration exposures were not reported in the literature on controlled experimentation. Case histories of accidental falls and suicides were studied to gain insight into human tolerance to this type of acceleration. Several basic crew restraint concepts were evolved and evaluated. A concept employing rigid contoured support was selected to limit body element displacement and distortion and to minimize rebound. A test system was designed and fabricated. Mechanisms were designed to preposition and pretension the crewman mechanically prior to impact. Further research should include thorough testing of the test system to determine the protection achieved by rigid contoured restraint. If high level protection is demonstrated, an operational prototype should be developed.	CHANCE VOUGHT CORP DALLAS TX	[FREEMAN, HOWARD E.,BOYCE, WILLIAM C.,GELL, C. F.]	152	[3- 14000/2R28,AM RL-TDR-62-128]	[TDR-62- 128,AMRL]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0274351	TITAN II. DYNA SOAR	3/15/1962	U	[A - 01]	The use of storable, high energy and hypergolic pr pellants, Unsymmetrical Dimethyl Hydrazine (UDMH)/Hydrazine and Nitrogen Tetroxide (N2O4), in Titan II and Titan III is an advancement in weapon and space systems. However, the intermixing reaction and toxicological properties of these propellants introduced a problem in the design of the destruct system for the booster. Tests were conducted to develop and verify a booster destruct system for use with these propellants.	MARTIN CO BALTIMORE MD	[Huntyer, H.,Larsh, E.]	68	[ER-12269]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
ADA179932	High- Temperature Test Technology	3/1/1987	U	[A - 01]	This report describes the findings of a study to determine the state of the art for high- temperature (1000-3000 F) fatigue and static testing of full-scale aerospace vehicle structures and structural components. Facilities, test equipment, instrumentation and test methods currently used by government, industry, and research organizations were surveyed and their capabilities evaluated. The purpose of this survey was to determine what state of the art techniques, equipment, and transducers are available for use in high-temperature structural testing, and to determine if there are any vacuum and cryogenic facilities available which could be adapted for use in high- temperature testing of full-scale aerospace vehicle structures and components containing liquid hydrogen. Recommendations are made for development work in order to establish or enhance the basic capabilities required to meet these needs. Keywords: Test facilities.	FLUIDYNE ENGINEERING CORP MINNEAPOLI S MN DBA/PHOENI X SOLUTIONS CO	[Hanson, Henry A.,Casey, John J.]	177	[AFWAL-TR-86- 3105]	[TR-86-3105]	Approved for public release; distribution is unlimited.	Final rept. Sep 84-Jan 86,
ADA203890	Electrolytic Protection Against High- Temperature Oxidation	11/1/1988	U	[A - 01]	This paper describes and discusses protection of materials against high-temperature oxidation achieved by coating their surfaces with a solid electrolyte and making the substrate cathodic in an electrolytic cell created by a potential applied across the electrolyte. This approach, similar in nature to the widely followed practice of cathodic protection against aqueous corrosion, is shown to be theoretically sound and potentially advantageous for protection of materials such as refractory metals and carbon-carbon composites. Current status of activity in the field is described and suggestions are made for future work.	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	[Kearns, Thomas F.]	45	[IDA-P- 2093,IDA/HQ-88- 33190,SBI-AD- E501 064]	[88-33190,AD- E501 064,IDA/HQ]	Approved for public release; distribution is unlimited.	Final rept. Feb 1987- Feb 1988

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0747878	Aerodynamic Problems of Hypersonic Vehicles. Volume 1	1/1/1972	U	[A - 01,53]	The purpose of the lecture series was to review current progress on specific areas of hypersonic vehicle design. Some general conclusions from the course can be stated. Lectures on vehicle optimisation were presented in which a generalised approach was used and the concept of the waverider was thoroughly discussed. Heating was highlighted as one of the most important problem areas in the aerodynamic design of hypersonic vehicles. Considerable emphasis was placed on the need to develop large hypersonic facilities in which complete configurations can be tested and on the desirability of conducting free-flight tests.	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPME NT NEUILLY- SUR-SEINE (FRANCE)	[Enkenhus, K.,Wendt, J. F.,Pankhur st, R. C.]	238	[AGARD-LS-42- VOL-1]	[AGARD]	Approved for public release; distribution is unlimited. NATO.	Lecture series
ADA562109	Strategic Studies Quarterly. Volume 6, Number 1, Spring 2012	1/1/2012	U	[A - 01]	In this issue: Space and Cyber: Shared Challenges, Shared Opportunities; Enhancing Security by Promoting Responsible Behavior in Space; Implementing the National Security Space Strategy; Space: Disruptive Challenges, New Opportunities, and New Strategies; China's Military Role in Space; New Frontiers, Old Realities; Solar Power in Space?; Designer Satellite Collisions from Covert Cyber War; The Space Code of Conduct Debate: A View from Delhi.	AIR UNIV MAXWELL AFB AL STRATEGIC STUDIES QUARTERLY	Not Available	155	Not Available	[AU/SSQ]	Approved for public release; distribution is unlimited.	Journal
AD0403387	FIBER OPTICS IN AEROSPACE VEHICLE HAZARD DETECTION	12/1/1962	U	[A - 01]	Light-transmitting glass fiber bundles in various configurations have been subjected to extensive optical, mechanical and thermal testing and to various other analyses. The report provides im portant information on fiber optic characteristics as well as design considerations for developing optimum systems. System configurations are rec ommended which would extend the capabilities of the basic fiber bundle in meeting the diverse requirements of installation, operation and maintenance in various applications. An experi mental fiber optic system for flame detection is described. It uses a 25 foot long bundle and incorporates a special photoelectric detection system and other embodiments of our findings.	FENWAL INC ASHLAND MA	[Traub, Alan C.]	234	[ASD-TDR-62- 731]	[TDR-62-731,ASD]	Approved for public release; distribution is unlimited.	Final rept. 8 Mar 1961-30 June 1962

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA424819	Spacepower as a Coercive Force	1/1/2003	U	[A - 01,26]	Much has been written about the possibilities and characteristics of spacepower. However, one issue that continues to inhibit the development of space forces is the lack of a holistic spacepower theory. The concept of spacepower needs to be expanded beyond that of an information service. Failure to do so will leave space forces adrift as simply a force enhancement capability, marginalized in national security planning, and impede the access to resources needed for force development. The purpose of this paper is to propose a spacepower theory and explore the implications of such a theory on future space operations and force structure. Air	AIR UNIV MAXWELL AFB AL	[Newberry, Robert D.]	51	Not Available	[AFIT]	Availability: This document is not available from DTIC in microfiche.	Not Available
					concepts are considered for what insights they provide to the logic process and operational concepts. This paper emulates the logical process for the development of air concepts while avoiding many contentious issues regarding the relationship between air and space forces. Issues such as a separate space service, air and space integration, and the concept of aerospace forces are not addressed.							
AD0861302	A Systems Management Philosophy for Case Analysis with a Study of the TFX	12/1/1968	U	[A - 01]	This report presents a philosophy for the use of the case method in systems management education. The case method is defined and its background and development are discussed. The use of cases, and their analyses, is discussed from two viewpoints; that of the teacher and that of the student. Explicit suggestions are offered to the teacher to help him in forming a 'modus operandi' which will insure maximum results from case studies. Guidance is offered which will assist the student in analyzing cases. A systematic problem solving model is developed which can be reproduced and handed out to a class. This model can also be used by managers analyzing problems on the job. The concluding chapters of this paper are devoted to a case study of the acquisition of the Tactical Fighter, Experimental (TFX). This case is designed primarily for study by systems managers; it is a study of the interrelationships and complexities involved in a major Defense Department decision. Following the case is the teacher's aid which discusses some of the salient features of the case study.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING	[Schroeder , Daniel R.,Hebert, Francis J.]	187	[GSM/SM/68- 07,GSM/SM/68- 14]	[AFIT]	Approved for public release; distribution is unlimited.	Master's thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0618715	ACOUSTICAL EVALUATION OF X-20A DYNA-SOAR FULL- PRESSURE SUIT ASSEMBLIES	5/1/1965	U	[A - 01]	Data on the subjective Real-Ear Attenuation at Threshold (REAT) and noise transmission measurements at the helmet microphone and ear cup were obtained for two models of the suit assembly. The first models tested and evaluated were called the 'training' models and were custom fitted for each of the Dyna-Soar pilots. During the test program, in which the pilots were acting as experimental subjects, the X-20A program was cancelled and only four of the six pilots completed the tests. The results of this evaluation revealed that various features of the assembly were unsatisfactory; therefore, an improved version was fabricated to correct the undesirable deficiencies. From the acoustical standpoint, the assembly was redesigned to eliminate a resonance at 250 cps with the visor open. This improved second model was called the 'flight ready' model. The report describes a comparative acoustical evaluation consisted of (1) the subjective measurement of RealEar Attenuation at Threshold (REAT) and (2) the measurement of transmission loss through the helmet at the helmet microphone and ear cup position.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH WRIGHT- PATTERSON AFB United States	[Sommer,H enry C.,Hille,Har ald K.]	30	[AMRL-TR-65-86]	Not Available	Approved For Public Release;	Technical Report
ADA325314	Carbon- Carbon Composites (CCC) - A Historical Perspective.	9/1/1996	U	[A - 01]	Carbon carbon composite (CCC) materials are typically composed of a fibrous carbon reinforcement, a carbonaceous or graphitic matrix, and sometimes other fillers or coatings to impart specialized properties. CCC materials have an outstanding balance of properties which have led to many important uses in the aerospace, defense, braking, industrial and other fields. This report provides a historical perspective of CCC materials, including (a) the most important developmental events, (b) the present technology base, and (c) present and future uses. The international materials community has assisted in compiling over 1400 historical events. Many of these events are listed in the report. Hopefully, they will assist in (a) recognizing major CCC events of the past, (b) stimulate new approaches and solutions for current problems and issues, and (c) provide a basis for forecasting future developments.	DAYTON UNIV OH RESEARCH INST	[Schmidt, Donald L.]	599	[UDR-TR-96- 94,WL*-TR-96- 4107]	[TR-96-4107,WL*]	Not Available	Technical rept. Sep 95- Sep 96,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA226987	Space Vehicle Flight Mechanics (La Mecanique du Vol des Vehicules Spatiaux)	6/1/1990	U	[A - 01,53]	In the last thirty years we have seen a great increase in both manned and unmanned space flights for scientific studies, for communication and navigation, and for military purposes such as surveillance, reconnaissance and as a possible area of deployment for both offensive and defensive weaponry. The possible uses of flight at near-space conditions (i.e.above about 150,000ft.) are also under consideration and, at these heights, many of the technical problems have a common basis with those space vehicles during the launch, recovery and transatmospheric phases. In all these areas, many problems remain only partly resolved and the relevant technologies are developing rapidly. It was considered that resolution of these problems and finding ways of using new technologies would benefit from the combined thought of the technology communities of the NATO nations. A symposium sponsored by the Flight Mechanics Panel of AGARD was seen as a timely forum for discussions on at least the flight mechanics aspects of launch and recovery, in-orbit dynamics, trans- atmospheric flight and the dynamic aspects of assembly and operation in space and also covered simulation and flight test. Keywords: Flight characteristics, Spacecraft, Spacecraft launching, Spacecraft recovery, Spacecraft simulation, Flight tests.	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPME NT NEUILLY- SUR-SEINE (FRANCE)	Not Available	485	[AGARD-CP-489]	[AGARD]	Approved for public release; distribution is unlimited. NATO.	Not Available
AD0404727	PROCESSING AND EVALUATION OF PRE- PRODUCTION QUANTITIES OF COLUMBIUM ALLOY SHEET	5/3/1963	U	[A - 01]	A 250 lb, 6-in. diam, B-66 ingot (Cb-5Mo-5V- 1Zr) was processed to 0. 165-in. thick sheet by means of extrusion, forging, and rolling. Data for these and intermediate operations are given and plans are outlined for future work on the B-66 and FS-85 (Cb-27Ta-1OW-1Zr) alloys.	WESTINGHO USE ELECTRIC CORP BLAIRSVILLE PA	[Nadler, R. A.]	27	Not Available	[NAVWEPS]	Approved for public release; distribution is unlimited.	Interim rept. no. 1, 24 Jan- 23 Apr 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1019698	The Landmark Space Age Thucydides: Human Spaceflight in the State Grand Strategic Quest to Address Fears, Advance Interests, and Garner Honor	6/1/2011	U	[A - 01]	Laymen and space enthusiasts alike continuously ask, Why send people to space? The popular philosophic answer to this question is, Because the human race is inspired by other humans exploring the unknown. While this may be true, by itself it rings cavernously hollow in the face of tough budgetary and political realities. From a state perspective, something of greater beneficial substance must be at play in order to justify the high costs and risks associated with human spaceflight. Extensive studies exist to demonstrate the strategic significance of uninhabited spaceflight technologies, such as the Global Positioning System, or communications and surveillance satellites. However, a dearth of equivalent research exists for human spaceflight. As a result, society too often caricatures human spaceflight as an expensive state luxury with little public importance. In reality, the saga of space history is testament to human spaceflights use by states as a powerful grand strategic tool of hi-tech statecraft. To help remedy this dearth of understanding, this study will use Thucydides state power concepts of fear, interest, and honor as an analytical framework to illuminate important linkages between human spaceflight and state goals. Key episodes in the story of American, Russian, and Chinese human spaceflight are studied to highlight the dominant role of fear, interest, or honor as a shaper and motivator of space development. These case studies are useful as they help to extract important grand strategic lessons. These lessons then form the basis of a viable human spaceflight strategy to enhance overall American spacepower and insure the space leadership of the United States for the future in the face of rising competition and dwindling resources.	Air University School of Advanced Air and Space Studies Maxwell AFB United States	[Gordon,Ra ndy]	148	Not Available	Not Available	Approved For Public Release;	Technical Report
AD0750108	Research and Development Contributions to Aviation Progress (RADCAP). Volume 1. Summary Report	8/1/1972	U	[A - 01]	A two volume report contains the results of a joint DoD-NASA-DoT study of U.S. aeronautical progress since 1925. Volume 1 reviews the positive contributions of military aeronautical research and development programs to civil aviation, and assesses some possible future contributions of those military programs. The summary of detailed results is concerned with a review of the progress that has been made in aviation since 1925 an examination of current and planned military aeronautical programs with an assessment of their relevancy to civil aviation, relationships to the needs of civil airliner technology, and important findings and observations in the RADCAP Study.	AERONAUTIC AL SYSTEMS DIV WRIGHT FIELD OH	[Paulisick, John G.]	129	[ASD-TR-72-3073 VOL-1]	[ASD]	Approved for public release; distribution is unlimited.	Final rept.
Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
-----------	--	-------------	--------	--------------	---	---	--	-------	---	--------------------------	--	--------------------
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0272026	RESEARCH ON HAZARD CLASSIFICATIO N OF NEW LIQUID ROCKET PROPELLANTS. VOLUME II. TITAN II MODEL MISSILE TESTS	10/1/1961	U	[A - 01]	The results of a special test program designed to determine the hazards of Titan II propellant handling mishaps are reported. Twenty model missile spills using total propellant quantities of 50 and 300 lb and two large- scale spills using total propellant quantities up to 1600 lb were made. The Titan II propellants, N2O4 and mixed N2H4, were also spilled in quantities up to 2.5 lb of total propellant in a series of small-scale tests. A biological study was performed on one large-scale test.	ROCKETDYNE CANOGA PARK CA	Not Available	182	[R-3217-VOL- 2,SSD-TR-61-40- VOL-2]	[TR-61-40-VOL- 2,SSD]	Approved for public release; distribution unlimited.	Final rept.
AD0715975	Placement of Aircraft Controls	9/1/1970	U	[A - 01]	Data are presented to guide the designer in placing aircraft controls to be operated by lightly clothed or pressure-suited aircrewmen. The capabilities of 17 subjects wearing various combinations of personal equipment to reach 81 locations within a 180 deg arc forward of seat reference point were determined. Each subject was tested while wearing personal equipment, consisting of an underarm life preserver, parachute harness and, successively, a K2B flight coverall, an uniflated, and inflated A/P22S-2 full-pressure suit. The subjects sat in a seat configured to approximate Air Force specifications. During the test they were restrained in the seat by a lap belt and shoulder straps with the inertial reel locked and again with the inertial reel unlocked. Pictorial descriptions of the dimensions, the reach capabilities of each subject, and recommended design values are presented.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Garrett, John W.,Alexand er, Milton,Mat thews, Chester W.]	459	[AMRL-TR-70-33]	[AMRL]	Not Available	Technical rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0408772	PROCEEDINGS OF RETARDATION AND RECOVERY SYMPOSIUM	5/1/1963	U	[A - 01]	The proceedings of the Retardation and Recovery Symposium sponsored by the Aeronautical Systems Division on 13 and 14 November 1962 are presented. The introductory session reviewed the use and applications of deployable aerodynamic decelerators throughout the past fifty years and noted the areas in which additional work had to be accomplished. The four technical sessions deal with the latest significant developments in the retardation and recovery area. The technical sessions begin with presentations and discussions of investigations in the hypersonic and supersonic flow phenomena. In addition, new aerodynamic decelerator designs and discussion of the wind tunnel tests pertaining to these designs, as well as overall reliability of recovery systems, are presented. The final technical session concludes with a discussion of the military, scientific, and general objectives for decelerators intended for future use.	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH FLIGHT ACCESSORIES LAB	Not Available	486	[ASD-TDR-63- 329]	[TDR-63-329,ASD]	Approved for public release; distribution is unlimited.	Final rept.
AD0411823	DATA REPORT AEDC-B-BC-24, A MACH 8 HEAT TRANSFER AND PRESSURE TEST TO INVESTIGATE SHOCK BOUNDARY LAYER INTERACTION ON A FLAT PLATE MODEL, AR-500M-2, SPO #188.	7/9/1963	U	[A - 01]	Not Available	BOEING CO SEATTLE WASH	Not Available	1	[D2 22491,Vol. 3]	Not Available	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0630469	X-20 WINDOW	1/1/1966	U	[A - 01]	This report describes two structural integrity tests of the X-20A high temperature	AIR FORCE	[England,	39	[AFFDL-TR-65-	[AFFDL]	Not Available	Final rept.,
	TESTS				side window. One test simulated the air leakage from the window during boost and	FLIGHT	Murray N.]		211]			Feb-Apr 1965
					the second test simulated the thermal cycle experienced during reentry. The outside	DYNAMICS						
					window panel failed prematurely during the thermal cycle, apparently the result of	LAB WRIGHT-						
					excessive thermal gradients through the frame and a stress concentration caused by	PATTERSON						
					thermistor instrumentation leads passing through the frame and under the window	AFB OH						
					seals.							
AD0431149	INVESTIGATIO	12/1/1963	U	[A - 01]	The objectives of this program were: (1) to compile lists of materials presently used	GENERAL	[Olewinski,	147	[63SD795,AMRL-	[TDR-63-	Approved for	Rept. for Mar
	N OF TOXIC				or proposed for use in spacecraft - specifically, the Apollo, Mercury, Gemini, and	ELECTRIC CO	W.		TDR-63-99]	99,AMRL]	public	1962-Jan
	PROPERTIES				Dyna-Soar programs - and to and to assess the possible toxic properties and	PHILADELPHI	J.,Rapier,				release;	1963
	OF MATERIALS				breakdown products of these materials under thermal and other anticipated stresses	A PA MISSILE	G.,Slawecki				distribution is	
	USED IN				and (2) to evaluate methods for the detection and identification of space cabin	AND SPACE	, T.				unlimited.	
	SPACE				contaminants for the purpose of compiling the requirements, methods, and	DIV	K.,Warner,					
	VEHICLES				specifications on available instrumentation. These in turn can serve as the basis for		Н.]					
					development of a compact kit for detection of toxic off-gassing from materials							
					employed in space vehicles. For other than short duration missions, monitoring							
					instrumentation must be capable of the detection and identification of a wide variety							
					of toxic contaminants, some of which may not have been anticipated. A highly							
					sensitive multiple gas detector, either directly or in combination with a trace gas							
					separation and concentration technique, appears to be a desirable approach.							
ADA531443	Leading Edge	1/1/2010	U	[A - 01]	This issue of the Leading Edge showcases systems safety engineering. It introduces	ΝΑναι	Not	135	INSWCDD/MP-		Approved for	lournal
1010331443	Volume 7.	1, 1, 2010	U	[/( 01]	the history of the discipline, explains what system safety is, the roles of review	SURFACE	Available	155	09/33]		public	Journal
	Number 3				boards and how it is executed. While a significant chain of policy requirements does	WARFARF	/ Wandbie		03/33]		release.	
	Systems				exist for performing system safety, the real justification for the exercise of safety	CENTER					distribution is	
	Safety				analysis is that it simply makes sense. Ensuring that systems are safe helps to save	DAHLGREN					unlimited.	
	Engineering				lives, prevent the loss of costly military assets, and prevent damage to the	DIV VA						
	5 5				environment. In this issue, you will learn about the numerous ways that system							
					safety is supporting the warfighter.							
1						1					1	

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0421685	LEADING EDGES DEVELOPMEN T - DYNA SOAR. VOLUME 3 THERMAL GRADIENT AND LOADS TEST DATA	6/25/1963	U	[A - 01]	Contents: tabulated temperature data, tabulated pressure load vs. deflection data, tabulated pressure load vs. maximum shear stress and principal stress data, rapid load vs. time curves, tabulated rapid load vs. deflection data, tabulated slow load vs. deflection data, and tolerances for thermocouples.	BOEING CO SEATTLE WA	[Bowers, D. A.,Esch, Paul G.]	325	[D2-80085-VOL- 3]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
ADA437098	Air Force System Safety Handbook, Designing the Safest Possible Systems Consistent with Mission Requirements and Cost Effectiveness	7/1/2000	U	[A - 01]	The Air Force System Safety Handbook was prepared as a resource document for program office SYSTEM SAFETY MANAGERS AND SYSTEM SAFETY ENGINEERS. It is not designed to answer every question on the topic of system safety nor is it a cookbook that guarantees success. The handbook provides considerable insight to the general principles, objectives, and requirements of applying system safety concepts to the Air Force system acquisition and logistical support processes. Programs vary greatly in their scope and complexity, requiring a tailored system safety effort. Assigned to this difficult task are military and government personnel with varied education and experience backgrounds. These system safety practitioners need a comprehensive understanding of the system safety process and the complexities of applying it to a given program. This handbook will assist in providing much of the necessary information but additional, more detailed guidance will be required from the program office and their higher headquarters system safety experts. This handbook is published by AFSC. Lt Col James E. LaMarca (formerly from HQ AFSA/SESD) developed and edited this handbook, first published in Sep 91.	AIR FORCE SAFETY AGENCY KIRTLAND AFB NM	Not Available	162	Not Available	[AFRL/NM]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA116210	The Data Base	5/7/1982	U	[A - 01]	One hundred thirty-six hours of gradient (profile) and bulk aerodynamic	NAVAL	[Blanc,The	631	[NRL-MR-4713]	Not Available	Not Available	Final rept.,
	for the May				measurements of momentum, moisture, and sensible heat flux, accompanied by	RESEARCH	odore V.]					
	1979 Marine				determinations of stability, drag coefficient, roughness length, and sky radiation were	LAB						
	Surface Layer				made in the marine atmospheric surface layer over the Pacific Ocean from an	WASHINGTO						
	Micrometeoro				upwind, low-profile promontory of San Nicolas Island, California. Over a 10-day	N DC						
	logical				period a wide variety of meteorological and oceanographic conditions were observed							
	Experiment at				in which 30-minute average wind speeds ranged from 2 to 17 m/s, air-water							
	San Nicolas				temperature difference from -2.1 to +0.6 C, dew point-water temperature							
	Island,				differences from -7.5 to -2.0 C, and Richardson number stabilities from -2.7 to +0.1.							
	California.				Subsequently, 10% of the data were acquired under stable atmospheric conditions							
					and 15% at wind speeds in excess of 12 m/s. The micro-meteorological observations							
					were accompanied by 80 hours of aerosol size distribution observations of particles							
					ranging from 0.3 to 14 micrometers in radius, 171 hourly measurements of upwind							
					wave period and height, 59 hourly measurements of atmospheric radon (222Rn), and							
					typically twice daily high resolution radiosonde measurements for determining the							
					height of the marine inversion. The data includes measurement error values for the							
					various flux and stability related parameters.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA354238	The	9/1/1998	U	[A - 01]	The 1994 National Space Transportation Policy designates the roles of the DoD, NASA	AIR FORCE	[Johnson,	116	[AFIT/GCM/LAL/	[AFIT]	Not Available	Master's
	Commercializa				and the Departments of Transportation and Commerce to identify and promote	INST OF TECH	Thomas L.]		98S-4]			thesis
	tion of Space				innovative types of arrangements between the U.S. government and the private	WRIGHT-						
	Transportatio				sector in order to reduce the cost to access space. DoD, civil and commercial industry	PATTERSONA						
	n: Exploring				leaders agree that the price to access space is currently exorbitantly expensive. The	FB OH						
	the Impact of				solution to this expense, which the United States Government is relying upon, is the							
	the National				commercialization of space transportation technology. This research focuses on							
	Space				investigating the industry and policy commercialization trends which led to the 1994							
	Transportatio				NSTP, and reports on compliance with the policy. Through policy literature review,							
	n Policy				case study analysis and interviews, the impact of the National Space Transportation							
					Policy on commercializing space transportation is determined. Research focuses on							
					space transportation participants who have done the most to shape the							
					commercialization policy over the past decade. Results indicate that the 1988-1994							
					period, leading to the 1994 NSTP, was shaped by the NASA and DoD stakeholders'							
					assertions for expanded bureaucratic control of the nation's space transportation							
					resources. After the 1994 NSTP, in the period of 1995-1998, the commercialization of							
					space technology has been increasing slowly, with innovative arrangements evolving							
					each year.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
Number ADA344953	Building Future Security: Strategies for Restructuring the Defense Technology and Industrial Base.	6/1/1992	U	Codes [A - 01]	The transformation of the global security environment is causing sweeping changes in the U.S. defense technology and industrial base (DTIB). The collapse of the Soviet military threat, which drove U.S. defense planning and spending for 40 years, combined with the urgency of domestic problems and the spiraling budget deficit, have generated pressures to reduce the defense budget by a third to a half over the next decade. Yet the Persian Gulf War illustrated the continuing need for an effective U.S. military establishment, supported by a smaller but still robust DTIB. Cuts in funding for defense research, development, production, and maintenance could impair the ability of the base to meet future national security needs unless the cuts are accompanied by changes in how the base is structured. As a result, the Nation needs to develop a comprehensive strategy for managing the downsizing of the DTIB while preserving the core capabilities essential for the development, production, and maintenance of major weapons and defense equipment. The broad outline of such a strategy was examined in an earlier OTA report, Redesigning Defense (See box 1-A.), and in three background papers. The previous report described some desirable characteristics of the future DTIB, which are listed in table 1-1. This report elaborates on the findings of the earlier OTA publications and examines in greater detail the	Author OFFICE OF TECHNOLOGY ASSESSMENT WASHINGTO N DC	Authors Not Available	Count 167	Numbers Not Available	[XD]	Statement Not Available	Note Not Available
ADA097595	Encyclopedia of Explosives and Related Items. Volume 9	1/1/1980	U	[A - 01]	specific policy choices involved in restructuring the DTIB over the next decade. This volume represents a continuing effort to cover comprehensively the unclassified information on explosives and related subjects in the same manner and format as in previous volumes. The reader is urged to obtain the previous volumes and to read both the PREFACE and INTRODUCTION in Volume I in order to understand the authors' way of presenting the subject matter. This volume has been prepared for information purposes only and neither ARRADCOM nor the Department of the Army shall be responsible for any events or decisions arising from the use of any information contained herein.	ARMY ARMAMENT RESEARCH AND DEVELOPME NT CENTER DOVER NJ LARGE CALIBER WEAPON SYSTEMS LAB	[Kaye, Seymour M.,Herman , Henry L.]	914	[PATR-2700-VOL- 9]	[ARDEC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0296973	APPLICATION OF FRESNEL ZONE THEORY TO MICROWAVE ANTENNA DESIGN	11/15/1962	U	[A - 01]	Some fundamental formulas are derived which are corrections to geometrical optics for radiation from bounded wavefronts. These formulas apply in both the near and far field, in focal and caustic regions, and in lit, twilight, and dark zones. Applications are made to improving the gain of a spherical reflector and the analysis of (generally unwanted) focussing of spillover energy in microwave systems.	TRG INC EAST BOSTON MA	[Kay, Alan F.]	56	[TRG-SR-3,AFCRL- 62-950]	[62-950,AFCRL]	Approved for public release; distribution is unlimited.	Not Available
AD0677368	HUMAN FACTORS ENGINEERING BIBLIOGRAPHI C SERIES. VOLUME 4, 1966 LITERATURE	12/1/1967	U	[A - 01,23]	This bibliography is the fourth in a planned series of bibliographies of literature pertinent to the field of human factors engineering. It covers literature of 1966. This bibliography consists primarily of: (1) an index to the human factors literature, and (2) the annotated bibliography.	TUFTS UNIV MEDFORD MA INST FOR PSYCHOLOGI CAL RESEARCH	[Ronco, Paul G.]	624	[HEL-BIB-VOL-4]	[BIB-VOL-4,HEL]	Availability: Document partially illegible.	Not Available
ADA420715	Air University Library Index to Military Periodicals. Cumulative Issue January- December 1980. Volume 31, Number 4	12/1/1980	U	[A - 01,26]	The Air University Library Index to Military Periodicals is a subject index to significant articles, news items and editorials appearing in 73 English language military and aeronautical periodicals not indexed in readily available commercial indexing services. The Index originated with 23 titles as a quarterly publication in 1949, and has continued on a quarterly basis superseded by annual cumulations (triennial cumulative issues. were published from 1952 through 1967). From 1949 to 1962 the Index was issued as Air University periodical Index. Staff members of Air University Library index all of the periodicals with the exception of six titles which are indexed by other Air Force, Army, and Navy libraries. Air University Library Index to Military Periodicals serves primarily the educational and research programs of Air University. The Index is available to other libraries upon request.	AIR UNIV LIBRARY MAXWELL AFB AL	[Rucks, Frances B.]	473	Not Available	[AUL]	Availability: This document is not available from DTIC in microfiche.	Not Available
AD0261936	DIELECTRIC COATED ANTENNA	5/1/1961	U	[A - 01,23]	Propagation of electromagnetic waves in a coaxial system is investigated. The configuration is that of an idealized dielectric coated antenna standing perpendicularly on a perfectly conducting plane being fed coaxially at its base. The method used involves integral transforms and leads to an infinite set of simultaneous linear equations relating an infinite number of unknowns. By proper choice of transverse dimensions only a finite number of equations and unknowns need be considered. It is therefore possible to obtain expressions for the amplitude of the surface wave and the admittance of the antenna.	BROWN UNIV PROVIDENCE RI	[Koozekan ani, Said]	85	[SR-AF-4561- 10,AFCRL-515]	[515,AFCRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0439662	PROPELLANT ACTUATED DEVICES	12/1/1963	U	[A - 01]	Contents: High Temperature Propellants for Crew Escape System Rockets; Feasibility of a Hybrid Rocket for Crew Escape Capsule Application; Propellant Actuated Devices in Space Environment; Close Tolerance Delay; Ancillary Components for Escape Systems; Mild Detonating Fuse (MDF); Components for Electrically Initiated Escape Systems; Co-Axial Catapult; Time Delay Mechanism; Dyna-Soar Technical Assistance; XM18 Gas Generator; Characteristics of Dynamic Seals, Sealing Materials, and Sealing Techniques for PAD; Improved Propellants and Primers for PAD Applications; Investigation of Recently Developed Materials and Manufacturing Techniques for Application to PAD; Improvement of PAD to Eliminate Toxic Propellant Gases (2 Reports); Medium Performance Miniature Initiator; Development of Ballistic Reel; Gun Launched Rocket; Rocket Altitude Sensing and Thrust Direction Control; Development of Twenty-Man Life Raft Inflator; Heavyduty Pyrotechnic Delay Reefing Line Cutter; and Bomb Ejector Cartridge for MAU-12/A Bomb Rack.	FRANKFORD ARSENAL PHILADELPHI A PA	Not Available	94	[FA-91-1]	[FA]	Approved for public release; distribution is unlimited.	Progress rept. Nov- Dec 1963
AD0635206	A STUDY OF TECHNIQUES AND EQUIPMENT FOR THE EVALUATION OF EXTRAVEHICU LAR PROTECTIVE GARMENTS	2/1/1966	U	[A - 01]	The purpose of this study was to establish a test methodology and a test system for objective, quantitative, and accurate evaluation of extravehicular space protective garments. Areas of testing studied include functional performance, life support, and environmental protection. Emphasis is placed on the problem of suit torque restraints, i. e., mobility. Concepts for appropriate evaluation criteria are discussed. The information presented and conclusions reached are the results of experience in suit testing, technical analysis, search of the literature, and discussions with experts. The nature and causes of suit torque restraint are discussed and a pin jointed model is developed for precise description of suit torques and body interlink angles. Various techniques for torque vector and body angle measurements are explored and it is concluded that a powered articulated dummu and an intrasuit exoskeletal electrogoniometer with off-line computer coupling are required to produce accurate data and useful figures of merit. Measurement techniques for reach envelope, glove evaluation, and comfort are also discussed.	UNITED TECHNOLOGI ES CORP WINDSOR LOCKS CT HAMILTON STANDARD DIV	[Parry, David G.,Curry, Jr., Leroy R.,Hanson, Donald B.,Towle, George B.]	427	[HSER- 3671,AMRL-TR- 66-4]	[TR-66-4,AMRL]	Approved for public release; distribution is unlimited.	Final rept. Aug 1964-Jun 1965

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA157316	Bibliography of Research Reports and Publications Issued by the Biodynamics and Bioengineerin g Division, 1944-1984.	4/1/1985	U	[A - 01]	Publications resulting from the research activities of the Biodynamics and Bioengineering Division of the Air Force Aerospace Medical Research lab. are listed for the time period 1944-1984. The Bibliography is divided into the following technical areas: Biological acoustics; Physical acoustics; Vibration; Impact; Windblast; Escape; Acceleration; Aircrew performance; Biodynamic, mechanical and material properties; Biodynamic models; and Physiology.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Zember,R. J.]	195	[AFAMRL-TR-85- 031]	Not Available	Not Available	Final rept.,
AD0462795	RANGE INSTRUMENT ATION PLANNING STUDY. VOLUME 5: TRACKING, TELEMETRY, AND COMMAND (TTC)	10/1/1963	U	[A - 01]	TRW Space Technology Laboratories (formerly Space Technology Laboratories, Inc.) was awarded a contract by ESD to perform a study of the entire test environment problem for these classes of missions and tests. The primary objective was the definition of what the global test environment should be in the 1965 to 1970 period and the development of an implementation plan permitting the timely and efficient attainment of the recommended configuration. Emphasis was placed on providing the capability to support the requirements imposed by the many programs involving missiles, large boosters, and spacecraft to be tested in the 1965 to 1970 period.	TRW SPACE TECHNOLOGY LABS REDONDO BEACH CA	Not Available	268	[8691-6098- RU000- VOL.,5,ESD-TDR- 63-354-VOL 5]	[TDR-63-354-VOL. 5,ESD]	Approved for public release; distribution is unlimited.	Final rept.
AD0811356	TECHNIQUES FOR AIRBORNE RADOME DESIGN. VOLUME 2	12/1/1966	U	[A - 01,23]	This is the second report on radome design. It was written to provide information on the technological gains made since the first volume was released. Both volumes are intended to provide scientists and engineers working on radomes with a concise reference containing most of the information they will need. Topics covered in this volume are: physical design; electrical design; environmental simulation and testing; materials and construction; evaluation and correction; and hypersonic applications. Comprehensive bibliographies are included.	GEORGIA INST OF TECH ATLANTA	[Walton Jr, Jesse D.]	513	[AFAL-TR-66-391 VOL-2]	[TR-66-391-VOL- 2,AFAL]	Availability: Document partially illegible.	Rept. no. 2 (Final)

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0277124	SURVEY AND EVALUATION OF SONIC FATIGUE TESTING FACILITIES	3/1/1962	U	[A - 01]	A survey and evaluation of the sonic fatigue testing facilities throughout the country has been made to establish present methods and techniques of testing and to determine the necessity of performing other environmental tests in combination with high intensity noise. Fifteen facilities were visited and detailed descriptions of these facilities are presented. The facilities are considered in terms of their functions as design, proof testing, and research tools, and such things as sound sources, the theoretical background of sonic fatigue work, test methods and specimen arrangements, instrumentation and data acquisition, time and costs, and combined environments are discussed and evaluated. What are considered the most feasible design and proof testing procedures, within the framework of present theory and equipment, are presented. A few of the general conclusions are that: 1. The most economical procedure for developing sonic fatigue resistant structures consists of the general steps: (a) Design panels with discrete frequency siren methods (b) Perform semi-qualification tests with broad band sources such as broad band sirens or modulated air flaw speakers (not jet engines). (c) Perform a full scale proof test. 2. The effects of temperature and pressure (and perhaps corrosion) can only be assessed by combined tests. 3 Combined tests for nuclear radiation should not be considered in the foreseeable future. 4. In many instances the effects of correlation can be approximated in a discrete frequency siren test by orienting a specimen in a manner determined by consideration of the sound level contours existing on the aircraft.	CONESCO INC CAMBRIDGE MA	[BIANCHI, RALPH A.,BRADSH AW, RONALD T.,Farrell, James H.,Reed, F. E.]	384	[ASD-TR-61-185]	[TR-61-185,ASD]	Not Available	Technical rept.
AD0682208	LIFE SUPPORT AND ENVIRONMEN TAL PROTECTION STUDIES	4/29/1960	U	[A - 01,23]	This study of life support and environmental protection for manned space vehicles has the objectives of identifying and developing advanced concepts, and establishing design criteria for manned vehicle systems. Environmental aspects which require design provisions for protection or control are vacuum, radiation, meteorites, temperature, zero-g, acceleration, vibration, and acoustic noise. Cabin design must minimize leakage of the internal atmosphere. The radiation hazard will require shielding unless a trajectory may be chosen to avoid exposure. Meteorite protection is significant primarily in avoiding loss of gas-tight integrity of the cabin wall. The temperature control problem is amenable to analysis and may be met by suitable combinations of surface characteristics, heat flow paths, insulations, radiators, and active or passive control techniques.	GENERAL DYNAMICS SAN DIEGO CA CONVAIR DIV	[Nau, R. A.,King, C. D.,Mahmo ud, M. M.]	84	[GDC-ERR-SD- 007]	[DOD]	Approved for public release; distribution is unlimited. Document partially illegible.	Quarterly progress rept. no. 1,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA307134	Proceedings of the National Conference on the Peaceful Uses of Space (2nd) Held in Seattle, Washington on May 8-10, 1962.	11/1/1962	U	[A - 01,23]	Not Available	NATIONAL AERONAUTIC S AND SPACE ADMINISTRA TION WASHINGTO N DC	Not Available	273	Not Available	[XD]	Availability: Document partially illegible.	Not Available
AD0276714	A REVIEW OF HYPERSONIC FLOW SEPARATION AND CONTROL CHARACTERIS TICS	3/1/1962	U	[A - 01]	A comprehensive review of high-speed flow separation and a review of available information pertaining to the effectiveness of aerodynamic controls for hypersonic vehicles are presented. Emphasis is on the problems associated with applying the existing information, which relates primarily to the low- supersonic speed range, to hypersonic flow situations. Sufficient detail is presented to allow this report to serve as a self-contained, introductory work on separation phenomena; available sources of specific types of control data are tabulated for ready access.	GRUMMAN AIRCRAFT ENGINEERING CORP BETHPAGE NY	[Kaufman, II, Louis G.,Hartofili s, Stavros A.,Evans, William J.,Oman, Richard A.,Meckler, Lawrence H.,Weiss, Daniel]	114	[ASD-TDR-62- 168]	[TDR-62-168,ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0611272	AN	1/1/1965	U	[A - 01]	Hypersonic flow separation and its effects on control characteristics were	GRUMMAN	[Kaufman,	125	[AFFDL-TR-64-	[TR-64-	Approved for	Not Available
	INVESTIGATIO				investigated analytically and experimentally. Included are conclusions drawn from	AIRCRAFT	II., Louis		174]	174,AFFDL]	public	
	N OF				extensive test data for hypersonic flows over 'basic' geometries and over 'typical'	ENGINEERING	G.,Meckler				release;	
	HYPERSONIC				flight configurations with aerodynamic controls. The basic flow geometries discussed	CORP	,				distribution is	
	FLOW				include: separation on flat plates ahead of ramps (flaps); flows over sharp expansion	BETHPAGE NY	Lawrence,				unlimited.	
	SEPARATION				corners; 'breakaway' separation; and fin plate interactions. Force data and limited		Hartofilis,					
	AND CONTROL				pressure and heating rate distributions are presented for the flight configurations for		Stavros					
	CHARACTERIS				various trailing edge flap settings. As a supplement to this work, available sources of		A.,Weiss,					
	TICS				pertinent hypersonic controls data are tabulated.		Daniel]					
400424020	DUOT	10/18/1062		[4 01]	This report presents some of the results of recent contribute preseleration research		[Chamborg	27		[MDOOF 12 6002	Approved for	Not Available
AD0424030		10/18/1903	0	[A - 01]	and training presents some of the results of recent centifuge acceleration research		Cridinbers,	57			Approved for	NOT AVAIIADIE
	BIOIVIEDICAL				and training projects in which the biomedical, psychophysiological, and psychological		Kanuan M. Nolcon		0308,3,NAVIVIED-	4,NAVIVIED]	public	
					instrumentation techniques are described and measured. Monitoring and recording		IVI., INEISON,		101KUUS-13-0UUZ-		reiedse;	
	PSYCHOLOGIC				instrumentation techniques are described, and an attempt is made to identify and	WARIVIINSTER	Joun G'Ì		4]		distribution is	
					quantity some of the capabilities and limitations of pilot performance during						uniimited.	
					exposure to accelerations which vary in magnitude, duration, direction, rate of onset,							
	ATION FOR				and profile complexity. Apparatus and methods are presented and discussed for	ACCELERATIO						
	MONITORING				monitoring visual distrubance, discrimination and response behavior, complex skill	N LAB						
	PERFORMANC				behavior, and an approach is made to the problem of monitoring higher mental							
	E DURING				functioning, The pilots and other volunteers in these training and research programs							
	CENTRIFUGE				were the 7 Mercury astronauts, 6 Dyna-Soar consultant pilots, approximately 35							
	SIMULATIONS				other test pilots, and approximately 40 other military and civilian volunteers.							
	OF SPACE											
	FLIGHT											

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0296219	PRINCIPLES OF	10/10/1962	U	[A - 01]	The synthesis of distributed networks is described with prescribed characteristics	POLYTECHNIC	[lkeno,	74	[PIBMRI-1003-	[TDR-62-	Approved for	Not Available
	DESIGNING				along with the method of approximation of their characteristics. The networks	INST OF	Nobuichi,		62,RADC-TDR-62-	437,RADC]	public	
	DISTRIBUTED				consist only of cascade and parallel connections of distributed elements of equal	BROOKLYN	Matsumot		437]		release;	
	NETWORKS				lengths. In such networks with elements of equal lengths, similar treatment as in	NY	o, Akio]				distribution is	
					lumped networks would be possible with lambda = j tan(Pi f/2 f sub o) as a variable.	MICROWAVE					unlimited.	
					But here some special features are encountered with, which are very different from	RESEARCH						
					those in lumped networks; i. e., lambda = !1 will be transmission zeros. As for	INST						
					network configuration, use of close-coupled coils and series elements should be							
					avoided. In spite of such restrictions on construction, an important conclusion was							
					obtained, that a transmission function is always realizable which has transmission							
					zeros only on the imaginary axis and at !1 on the complex lambda- plane. The proof is							
					presented, accompanied by the manners of construction, approximation of a							
					characteristic with functions having poles at lambda = 1, especially procedures to							
					obtain Tchebycheff characteristics and several design examples. Some citation is also							
					made on the construction of 2-terminal distributed networks.							
AD1047001	The	6/1/2017	U	[A - 01]	This paper examines the implications that lowering the cost to access space will have	SCHOOL OF	[Arrington,	201	Not Available	Not Available	Approved For	Technical
	Implications of				on Airpower. The research conducted used predominantly qualitative research	ADVANCED	Gabe]				Public	Report
	Lowering the				techniques to include interviews, primary sources, secondary sources, wargames,	AIR AND					Release;	
	Cost to Access				panel discussions, and site visits. Research included a wide range of topics including	SPACE						
	Space on				airpower, domestic policy, foreign policy, socioeconomic factors, and technological	STUDIES						
	Airpower				factors applicable to lowering the cost to access space, airpower theory, and	MAXWELL						
					application. An examination of these factors has led to the conclusion that the United	AIR FORCE						
					States government should pursue and invest in a Fast Space Strategy in the future.	BASE United						
						States						
					1							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA560689	The Challenge	3/1/2012	U	[A - 01]	During the last two decades, technological advancements in the size and	NAVAL	[Gallton,	129	Not Available	[NPS-NS]	Approved for	Master's
	of Small				performance of electronics have fostered the development of increasingly	POSTGRADUA	Daniel A.]				public	thesis
	Satellite				sophisticated and smaller satellites. Small satellites, or smallsats as they are	TE SCHOOL					release;	
	Systems to the				commonly referred to, have recorded data on terrestrial and space environments,	MONTEREY					distribution is	
	Space Security				served as important test beds and risk reducers for emerging space technologies, and	CA DEPT OF					unlimited.	
	Environment				provided important hands-on educational opportunities for industry and academia.	NATIONAL						
					The decreased cost and improved performance of smallsats have opened up a wide	SECURITY						
					range of space missions at a fraction of the cost of larger satellite systems that would	AFFAIRS						
					have been unfathomable two short decades ago. The proliferation of smallsat							
					technology opens up a world of new scientific possibilities. Smallsats also pose							
					unique security challenges for space-faring nations through their potential use as							
					antisatellite (ASAT) systems. This thesis examines the historical development of ASAT							
					systems in the United States, the former Soviet Union, and China, and discusses how							
					they have influenced each nation's space policy. The thesis will address current							
					efforts to mitigate space weapons, review the implications of smallsat technology							
					development on current space policy, and suggest courses of action to mitigate this							
					emerging space security dilemma.							
ADA303024	Dielectrics in	6/26/1963	U	[A - 01,23]	Not Available	WESTINGHO	Not	298	Not Available	[XD]	Availability:	Not Available
	Space					USE	Available				Document	
	Symposium,					RESEARCH					partially	
	Collected					LABS					illegible.	
	Papers.					PITTSBURGH						
						PA						
ADA303024	Dielectrics in Space Symposium, Collected Papers.	6/26/1963	U	[A - 01,23]	they have influenced each nation's space policy. The thesis will address current efforts to mitigate space weapons, review the implications of smallsat technology development on current space policy, and suggest courses of action to mitigate this emerging space security dilemma. Not Available	WESTINGHO USE RESEARCH LABS PITTSBURGH PA	Not Available	298	Not Available	[XD]	Availability: Document partially illegible.	Not Availat

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0278607	EVALUATION OF RADIANT HEAT FLUX AND TOXICITY IN DYNA-SOAR TITAN II DESTRUCT TESTS	5/1/1962	U	[A - 01]	Two destruction tests ere conducted of c le odels of the Titan II fuel tankage systems. Total quantities of prop llant involved were 14,000 pounds for one test, and 32,000 poun s for t e o her of the Aerozine -N sub 2 O sub 4 combination used in this booster. The work was restricted to providing information on 3 specific questions: (1) the completeness of reaction on putting together the hypergolic propellant combination; (2 THE RADIANT HEAT FLUX FROM THE R ACTION ZONE; AND (3) the quantity and distribu ion of to ic vapors. No consideration is given to the overpressure produced by the e plosion. It is estimated that reaction was about 20% completed wit in a perio of 5 - 7 secon s. Additional reaction ensued on the test pad and all resi ual fuel was consumed by burning in air. About half of t e oxidant was dispersed unr acted an largely carried upward in t ther al column re ul i g from t e xplosion. The peak radiation levels from the explosions were about 10 to the 9th power watts. (Author)	BUREAU OF MINES PITTSBURGH PA	[GIBSON,F RANK C.,MURPH Y,JOHN M.,BURGES S,DAVID]	1	[TDR62 221,ASD- TDR62 221]	[TDR62 221]	Not Available	Not Available
AD0282470	PROJECT APOLLO, PRE- CONTRACTUR AL DOCUMENTAT ION AND ORBITAL RENDEZVOUS: A LITERATURE SURVEY	12/29/1961	U	[A - 01]	Not Available	NORTH AMERICAN AVIATION INC LOS ANGELES CA	Not Available	48	[SID-61-470]	[NASA]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA372862	Conference on the Physics and Chemistry of Semiconducto r Interfaces (26th) Held in the Catamaran Resort Hotel in Pacific Beach, San Diego, California on 17 January 1999 to 21 January 1999. Microelectroni cs and Nanometer Structures: Processing, Measurement, and Phenomena	1/27/2000	U	[A - 01]	The Proceedings of the 26th Annual Conference on the Physics and Chemistry of Semiconductor Interfaces (PCSI-26) are contained in this volume. The Conference was held at the Catamaran Resort Hotel in Pacific Beach, San Diego, California from Sunday evening, 17 January 1999 to noon on Thursday 21 January 1999 A total of 18 invited and 69 contributed papers were presented, with 113 attendees. This year's Conference saw a large number of papers relating to nitride semiconductor interfaces and piezoelectric effects (41) reflecting the increasing interest in that field worldwide. Besides the traditional emphasis on growth and characterization of other compound semiconductor interfaces (35) a significant number of papers addressed the chemistry and physics of SiO2/Si interfaces (23). There were also a small but significant number of papers dealing with magnetic materials, and spin transport (6), an area that the PCSI Committee believes will increase in the future. Carol Ashby presented some interesting new results on the role of As in oxidation of AlGaAs layers. Steve Streiffer gave an overview of recent work on Perovskite structure ferroelectric films for possible gate dielectrics in transistors. Other exciting advances reported at the Conference include: silicon substrate-based optoelectronic structures predicted by John Joannopoulos from MIT, MBE studies of GaN growth, impurity and surfactant effects in GaN total energy calculations, and real-time x-ray scattering studies of MOCVD growth of GaN films. The Tuesday "Rump" session's theme this year was piezoelectric effects at semiconductor interfaces and included stimulating talks by D. L. Smith and a number of others.	INSTITUTE FOR POSTDOCTOR AL STUDIES SCOTTSDALE AZ	[Schulte, C. R.]	613	[F1-1999]	[ONR]	Not Available	Final rept. 1 Oct 98-30 Sep 99
AD0486269	PRESSURE SUIT AND EXTRAVEHICU LAR PERFORMANC E DATA FOR MOL	2/1/1965	U	[A - 01]	Not Available	AEROSPACE CORP EL SEGUNDO CA EL SEGUNDO TECHNICAL OPERATIONS	[Hayden, W. C.,Swope, R. S.]	52	[TOR-469(5527- 39)-1]	[AFSC/SD]	Approved for public release; distribution is unlimited.	Technical operation rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0834349	CONSOLIDATE	11/1/1961	U	[A - 01]	This Survey is prepared monthly from lists received through cooperation of US	CENTRAL	Not	289	Not Available	[CIA]	Not Available	Not Available
	D				government agencies and includes translations of such agencies, private industry,	INTELLIGENC	Available					
	TRANSLATION				universities, research institutions, and commercial translation organizations. It is a	E AGENCY						
	SURVEY				compilation of foreign documentary projects, completed or started during the month	WASHINGTO						
	NUMBER 47				preceding this publication. Translations are listed by area and subject category.	N DC						
					Scientific projects are grouped as a section regardless of geographic area. Title in							
					English, author, foreign language title of source of material, date and data of							
					publication, and publication identification of the completed project are given when							
					available.							
ADA954761	100	1/1/1963	U	[A - 01]	Tables show net awards to the 100 companies and their applicates which receive the	WASHINGTO	Not	15	[DIOR/P01-	[DIOR]	Approved for	Annual rept.
	Companies				largest volume of military prime contracts awards during the fiscal year. The tables	N	Available		63,P01]		public	
	Receiving the				show rank, company name, millions of dollars, precent of the U.S. total and	HEADQUARTE					release;	
	Largest Dollar				cumulative of U.S. total.	RS SERVICES					distribution is	
	Volume of					(DOD) DC					unlimited.	
	Prime					DIRECTORATE						
	Contract					FOR						
	Awards, Fiscal					INFORMATIO						
	Year 1963					N						
						OPERATIONS						
						AND						
						REPORTS						

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA528970	Breakthrough Technologies Developed by the Air Force Research Laboratory and Its Predecessors	12/21/2005	U	[A - 01]	This history narrates the development of "breakthrough" technologies by the Air Force Research Laboratory and its predecessor organizations. Encouraged by AFRL's Executive Director, Mr. Lester Mc Fawn, AFRL's history program researched and wrote nearly fifty scholarly essays. These extend over the full gamut of Air Force Technology activities. The essays elucidate, in a brief and informative manner, the development of much "cutting-edge"technology generated over the years by the United States Air Force and Installed into the Air Force's operational forces.	AIR FORCE RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Aldridge, James,Chri sty, Shari,Duffn er, Robert,Ma rchese, Joseph,Od er, Barron,Rus nak, Kevin,Whit e, Robert,Wa ff, Craig]	347	Not Available	[AFRL]	Approved for public release; distribution is unlimited.	Not Available
AD0476876	DESCRIPTION AND EVALUATION OF ENVIRONMEN TAL CONTROL AND CRYOGENIC SUPPLY SUBSYSTEMS FOR X-20 (DYNA-SOAR).	4/1/1965	U	[A - 01]	The X-20A (Dyna-Soar) environmental control subsystem transported heat from the pilot's compartment, equipment compartment, and secondary power subsystem heat loads by a water-glycol mixture to the central cryogenic hydrogen heat sink. The warmed hydrogen was subsequently used as fuel for accessory power units (APU) or to maintain constant pressure in the supercritical hydrogen supply tank. Super-critical stored oxygen was furnished to the APU for combustion and also was diluted by nitrgen and supplied to the open-type pilot's atmosphere control subsystem. Pure nitrogen was used to maintain pressure in the separate, uninhabited equipment compartment. Aerodynamic heat was blocked from entering the three compartments by a passive water-wall subsystem. Gelled water was held in sponges and secured between appropriate amounts of insulation until aerodynamic heat penetrated to the gel and boiled away the water. The environmental control and cryogenic supply subsystems are described and evaluated up to the time the X-20 was terminated. (Author)	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OH	[Forman, Royce G.,Gillen, Richard J.,Szacik, Robert S.]	184	[SEG-TR-65-5]	Not Available	Not Available	Final rept.,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0274290	HUMAN FACTORS ENGINEERING REVIEW AND EVALUATION OF TITAN WEAPON SYSTEM 107A- 2 LAUNCHER, OSTF AND TF- 1, VOLUME 1	1/31/1962	U	[A - 01]	Not Available	AMERICAN MACHINE AND FOUNDRY CO GREENWICH CT	[BRICKER, LEO,BENNE TT, LEWIS W.,MALHE NZIE, RONA FINIZIE]	165	[TS,7 2 36 V1]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
ADA523161	Going Boldly- Where? Aerospace Integration, the Space Commission, and the Air Force's Vision for Space	1/1/2001	U	[A - 01]	AS WITH MOST other new technologies and frontiers, our perceptions of outer space and space technology have been fundamentally shaped by competition and warfare. World War II was the rationale for Nazi Germany's equivalent of the "Manhattan Project," led by Wernher von Braun, which first brushed the edge of space in 1942 with the revolutionary V-2 (A-4) ballistic missile.1 Likewise, the superpower competition during the cold war was the most influential factor in shaping both the Soviets1 opening of the space age with the launch of Sputnik I on 4 October 1957 and the eventual American response of initiating a race to the Moon.2	AIR AND SPACE POWER JOURNAL MAXWELL AFB AL	[Hays, Peter,Muel ler, Karl]	17	Not Available	[USAF]	Approved for public release; distribution is unlimited.	Journal article
AD0869353	Pensions and Severance Pay for Displaced Defense Workers	6/1/1969	U	[A - 01]	The United States Arms Control and Disarmament Agency (ACDA) is charged with the conduct of the studies on the economic consequences of arms control and disarmament and, in carrying out this responsibility since its establishment in 1961, has sponsored a large number of studies dealing with problems of aggregate, manpower, and regional adjustment to changes in defense spending. The purpose of this study for ACDA is to undertake a preliminary examination of the 'adequacy' of pensions, severance pay, and other fringe benefits for defense workers in the event of layoffs which would occur as the result of arms control or disarmament.	ILLINOIS UNIV CHAMPAIGN INST OF LABOR AND INDUSTRIAL RELATIONS	[Folk, Hugh,Hart man, Paul]	183	Not Available	[ACDA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0365826	Analysis of	8/1/1965	U	[A - 01]	The use of highly compact and lightweight hydrogen heat exchangers envisaged for	BUREAU OF	[Furno, A.	29	[AFAPL-TR-65-	[TR-65-86,AFAPL]	Approved for	Final
	Advanced				advanced flight vehicles has introduced problems associated with flight safety. A	MINES	L.,Bartkowi		86]		public	technical
	Flight Vehicle				hydrogen leak permitting the hydrogen gas to mix with high temperature ram air can	BRUCETON	ak,				release;	rept. 2 Jan
	Heat				result in autoignition of the gas-air mixture with subsequent failure of the entire heat	PA	A.,Spolan,				distribution is	1964-30 Apr
	Exchanger Fire				exchanger. In this work, heat exchangers were simulated by placing one or more	EXPLOSIVES	I.,Kuchta, J.				unlimited.	1965
	and Explosion				hydrogen bearing tubes in a heated air stream. The leaks were simulated with various	RESEARCH	M.]					
	Hazards				diameter holes (.0235040-inch) drilled through one wall of the tubes. Air mass	CENTER						
					velocity through the test section was varied from 1 to 38 lbs/sq ft sec. and the							
					temperature of the heated air was varied to obtain the minimum air temperature to							
					effect ignition of the gas-air mixtures. Ignitions were obtained with tube holes as							
					small as 0.0135- inch diameter and hydrogen leak rates up to 0.56 SCFM. The ignition							
					temperature fell between 1000 and 1300 deg F and increased with increasing air flow							
					rate.							
AD0282003	BERVILLIM	5/1/1962	11	[4 - 01 23]	Design information is presented for Be and ceramic composite structures for re-entry	AFRONCA	[Krusos ]	186	FR-532 ASD-TR-	[TR-61-706-VOL-	Approved for	Final
AD0282003		5/1/1502	0	[A - 01,23]	vehicle applications. A summary of materials and process developments for Be papels	MEG CORP	N Kielby	100	61-706-VOL-1		nublic	technical
					and heat shield ceramics, analytical evaluations, and discussion of annlication of		Δ		017007021]	1,71101]	release.	engineering
					insulated structural concepts to re-entry vehicle systems are included. Also included	NOH	S Borosic				distribution is	rent 4 Feb
	DESIGN AND				are the results of panel tests in the severe environments of turboiet and ramiet	in on	L.Bvrne, T.				unlimited.	1960-31 Aug
	APPLICATION				exhausts. Data suitable for preliminary design considerations are presented for three		TFck. F.				Document	1961
					reinforced heat shield ceramic foams: Al203, SiO2, and ZrO2, Be sandwich panels		B. Wiegert.				partially	
					constructed in the course of the program are described with regard to fabrication		R. E. Rosa.				illegible.	
					potential and performance in aerospace structures.		V.1				-0	
							,					

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0406166	SCORING METHODS STUDY	3/1/1963	U	[A - 01]	The results of a study of the applicability of seven classes of physical phenomena to trajectory scoring - measuring the relative trajectory of a munition with respect to its target - are presented. The seven phenomena (classes) considered are: (1) electrostatic fields; (2) magnetic fields; (3) nuclear radiation; (4) gravitational fields; (5) inertial systems; (6) pressure waves; and (7) electromagnetic (optical) radiation. In addition, several mathematical studies which treat the encounter geometry, the relationship of measurement accuracy to position errors, data handling problems, and the influence of own-ship angular motion on the accuracy of position determination are presented. Included also is an extensive bibliography. Scoring-system recommendations are made for the three general target classes: satellites, intercontinental ballistic missiles and aerodynamic-type vehicles.	TEXAS UNIV AT AUSTIN	Not Available	162	[ASD-TDR-63-17- V-1]	[TDR-63-17-V- 1,ASD]	Approved for public release; distribution is unlimited.	Final rept.
AD0273450	MANUFACTUR ING METHODS AND DESIGN PROCEDURES OF BRAZED REFRACTORY METAL HONEYCOMB SANDWICH PANELS	2/20/1962	U	[A - 01]	Honeycomb sandwich panels using Mo and Nb core and facings can be brazed to provide lightweight structural coverings for high temperature application on an aerospace vehicle. The panel configurations selected for fabrication simulate a hot structural and a radiant heat shield application . M (Mo-0.5Ti-0.08Zr) Mo and D-36 (Nb-10Ti-5Zr) Nb alloys were chosen for use on the program. Special tools and procedures were developed to fabricate the honeycomb core. All Mo welding will be accomplished by electron beam welding. A 4200 F cold-wall vacuum furnace will be used to braze the honeycomb test panels. A quartz-lamp facility will be used to heat the panels for structural testing. Thermal-cyclic and sonic fatigue tests will be performed on heat shield test panels. A 4000 F cold-wall vacuum test chamber will be used to determine material and honeycomb proporties.	MARTIN CO BALTIMORE MD	[MCCOWN , JAMES W.,WILKS, C.]	140	[ASD-TDR-62- 937]	[TDR-62-937,ASD]	Approved for public release; distribution is unlimited.	Interim rept., 20 Nov 1961- 20 Feb 1962
AD0295919	DIFFUSION BONDING OF REFRACTORY METALS	1/2/1963	U	[A - 01]	Six concepts to actuate the diffusion bonding process were evaluated experimentally. Three of these - surface active elements, recrystallization of cold worked metal, and allotropic transformations - promote bonding. Small atom diffusion aids, acceleration of diffusion by a high frequency field, and bonding under subsolidus conditions are ineffective or inapplicable to refractory metal bonding. The magnitude of improvement of joints with intermediate foils that recrystallize or undergo allotropic transformation has been found to be small, whereas surface active elements produce a severalfold increase in bond strength.	SOLAR TURBINES INTERNATION AL SAN DIEGO CA	[METCALFE , A.G.,LINDE MER, T.B.]	82	Not Available	[ASD]	Approved for public release; distribution is unlimited.	29 September 1962 - 28 December 1962

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA453934	A Comparative Analysis of Single-Stage- To-Orbit Rocket and Air- Breathing Vehicles	6/1/2006	U	[A - 01]	This study compares and contrasts the performance of a variety of rocket and air breathing, single-stage-to-orbit, reusable launch vehicles. Fuels considered include bi- propellant and tri-propellant combinations of hydrogen and hydrocarbon fuels. Astrox Corporation's HySIDE code was used to model the vehicles and predict their characteristics and performance. Vehicle empty mass, wetted area and growth rates were used as figures of merit to predict the procurement, operational and maintenance cost trends of a vehicle system as well as the system's practicality. Results were compared to those of two-stage-to-orbit reusable launch systems using similar modeling methods. The study found that single-stage-to-orbit vehicles using scramjet air breathing propulsion outperform rocket systems. Findings also demonstrate the benefits of using hydrocarbon fuel in the early phases of ascent to reduce the size and mass of launch vehicles. An all-hydrocarbon, air breathing, single- stage-to-orbit vehicle was found to be a viable launch vehicle configuration and performed comparably to two-stage-to-orbit rocket systems.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH DEPT OF AERONAUTIC S AND ASTRONAUTI CS	[Orloff, Benjamin S.]	100	[AFIT/GAE/ENY/0 6-J13]	[ASC*]	Approved for public release; distribution is unlimited.	Master's thesis, Jul 2005-Jun 2006
AD0878196	Economic Impact of Military Base Closings. Volume II. Mobile, Alabama; Salina, Kansas; Bangor, Maine; Brooklyn, New York; Harrisburg, Pennsylvania; Amarillo, Texas; Moses Lake, Washington,	4/1/1970	U	[A - 01]	Contents: Impact of the Brookley Air Force Base Closing on the Economy of Mobile, Alabama; A Case Study of the Phase-Out of Schilling Air Force Base, Salina, Kansas; The Local Impact of Reduction of Base Activity, Dow Air Force Base, Bangor, Maine; The Closure Pattern and Its Local Impact: A Case Study of the New York Naval Shipyard, Brooklyn, New York; A Case Study of the Phase-Out of Olmsted Air Force Base, Harrisburg, Pennsylvania; Economic Effects of the Announced Closure of Amarillo Air Force Base, Amarillo, Texas; A Case Study of the Phase-Out of Larson Air Force Base, Moses Lake, Washington; Discontinued Studies.	KANSAS UNIV LAWRENCE	[Daicoff, Darwin W.,McClug gage, Marston M.,Warrine r, Charles K.,Olsen, Ronald R.]	263	Not Available	[ACDA]	Approved for Public Release;Distri bution Unlimited	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0341745	Semiannual Technical Summary Report on ARPA Orders 14-59 and 47- 59 from 1 July 1959 through 31 December 1959	2/15/1960	U	[A - 01]	Not Available	ARMY ORDNANCE MISSILE COMMAND REDSTONE ARSENAL AL	Not Available	237	[AMC-DIR-TR-1- 60]	[ARPA]	Approved for public release; distribution is unlimited.	Not Available
ADA407810	Ten Propositions Regarding Spacepower	6/1/2001	U	[A - 01]	This study rides the coattails of Colonel Phillip S. Meilinger's book, Ten Propositions Regarding Air Power. As the United States ponders its future regarding space operations, the time has come to flame similar propositions regarding spacepower. Specifically, this study seeks to answer the question, "What is the nature of spacepower?" It also tests the aerospace integration school's hypothesis that spacepower is simply a continuation or extension of airpower. Two points come immediately to the forefront of this work. First, spacepower is different from airpower even though both share the vertical dimension of warfare. Second, space operations have matured to a point wherein valid and unique propositions regarding spacepower are identifiable. The ten propositions presented here do not represent a complete list. The method used to derive these propositions involved literary research that resulted in a long list. The list evolved over three years during numerous brainstorming sessions with several space experts most of them space weapons officers with theater and often combat experience until the list was carefully refined into the ten most salient propositions. There were many ways to present the Ten Propositions Regarding Spacepower, but the author deferred to Meilinger's approach of citing each proposition as a thesis statement with supporting material immediately following. The objective of this work is to stimulate discussions and help those who do not yet understand or appreciate the nature of spacepower in modern warfare.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIRPOWER STUDIES	[Smith, M. V.]	156	Not Available	[AU-SAAS]	Not Available	Master's thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA033139	Problem Summary for SF-101-03- 16/8132,	8/23/1967	U	[A - 01]	This document is intended to determine properties of acoustic signals, signal processing and display techniques, and terminal decision procedures which can be used effectively to detect and classify active sonar contacts. To provide in technical reports or as system design assistance, the bases for improved detection and classification techniques in operational systems. Improvements in sonar detection and classification require search for better signal inforamtion and for ways to make more effective use of known information. Physical analysis and quantitative tests of raw and processed sonar signals from operational and experimental equipments are used to identify signal variables which show promise for detection and classification discrimination. Signal processing, computer simulation and electronic display techniques, together with supporting theoretical concepts of information processing, communication theory, and decision theory are applied to signal waveforms to establish the effectiveness and design requirements of automatic and semi-automatic detection and classification systems.	NAVAL UNDERSEA WARFARE CENTER SAN DIEGO CALIF	[Stradling, Cornell S.]	48	Not Available	Not Available	Not Available	Not Available
ADA189875	50 (Fifty) Years of Research on Man in Flight	6/1/1985	U	[A - 01,23]	This 50th Anniversary Celebration is a gala review of the last half century of research in aviation medicine. This research has fundamentally shaped the evolution of aircraft design from the wood and wire biplanes to the Space Shuttle. Many renowned scientists have worked in this creative multidisciplinary environment, to evolve pioneering knowledge and established World records that have stood the test of time. Their numbers are legend. Their efforts are unsurpassed anywhere in the world. The published literature from 1935 to 1985 has set the standard for air vehicle design in this country and abroad. Wherever man interfaces with the air vehicle, the mark of aeromedical research is clearly evident in both the hardware design and its functional operation. It is the integration of engineering and medicine which made these achievements possible. The next half century will make even bolder strokes in manned flight. Keywords: Human factors engineering; Acceleration tolerance; Ergonomics; Stress(Physiology); Cockpits; Gravity force.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Dempsey, Charles A.]	250	Not Available	[AMRL]	Availability: Document partially illegible.	History rept. 1935-1985

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA618921	All the Missiles Work: Technological Dislocations and Military Innovation: A Case Study in US Air Force Air-to-Air Armament, Post-World War II through Operation Rolling Thunder	1/1/2015	U	[A - 01]	History reveals a Janus-faced, nearly schizophrenic military attitude toward technological innovation. Some technologies are stymied by bureaucratic skepticism; others are exuberantly embraced by the organization. The opposing perceptions of skepticism and exuberance that greet military technologies mirror the different interpretations of technology's role in broader society. Thomas Hughes's theory of technological momentum attempted to reconcile two of the disparate perspectives' social constructivism and technological determinism. The theory of technological dislocations advanced by this thesis is a refinement of Hughes's theory and is more reflective of the complex, interdependent relationship that exists between technology and society. Drawing on a single, detailed historical case study that examines the development of air-to-air armament within the US Air Force, post- World War II through Operation Rolling Thunder, this paper illustrates how an unwavering commitment to existing technologies and a fascination with the promise of new technologies often obfuscate an institution's ability to recognize and adapt to an evolving strategic environment. The importance of a keen marketing strategy in outmaneuvering bureaucratic skepticism, the benefits of adopting a strategy of innovative systems integration vice outright systems acquisition, and the need for credible, innovative individuals and courageous commanders who are willing to act on their subordinates' recommendations are all revealed as being critical to successful technological innovation.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIR AND SPACE STUDIES	[Fino, Steven A.]	171	Not Available	[AU-SAASS]	Approved for public release; distribution is unlimited.	Drew paper no. 12
ADA212671	USAF Pilot/Physician Program: History, Current Program, and Proposals for the Future	7/1/1989	U	[A - 01]	Pilot-physicians have existed since the very beginnings of aviation. Even though they were not a recognized for formal group of individuals until after World War I, they have made great contributions to the general knowledge of aviation physiology and human factors. They have been able to communicate with both the line and the medical corps through-their knowledge of both languages. This paper presents the history of pilot-physicians from their beginning through to the present. It outlines for the pilot-physician program the goals and objectives, selection process, and program outline. It documents accomplishments and outlines career progression of pilot-physicians who were located and sent questionnaires. And finally, it summarizes the possible future direction of the program through the eyes of its participants. Keywords: Aviation medicine; Physicians; Pilot-physician; Flight surgeons.	SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TX	[Koritz, Thomas]	25	[USAFSAM-TP-89 9]	SAM]	Approved for public release; distribution is unlimited.	Final rept. Jul 1988-Jun 1989

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA091420	Standard Spacecraft Procurement Analysis: A Case Study in NASA-DOD coordination in Space Programs	5/1/1980	U	[A - 01]	This document examines organizational and procurement issues surrounding NASA- DoD cooperation for a specific case studyDoD use of NASA standard spacecraft. Space shuttle operation, as the U.S. standard launch vehicle for both NASA and DoD payloads, refocuses attention on NASA-DoD cooperation. Use of standard spacecraft designs offers reduced operational costs, but intensifies the difficulty of determining agency needs and responsibilities while retaining mission responsiveness. A modified system- impact-assessment approach compares total costs of alternative procurement options and applies both sensitivity and a fortiori analyses to manage uncertainty. Principal conclusions are: use of a new standard spacecraft design, rather than any original NASA or DoD designs, provides the basis for minimizing the cost of the Air Force Test Program; factors essential to NASA-DoD cooperation are a common subset of missions, a common organization responsibility, and an extensive period of time to develop the organizational mechanics; and the successful NASA- DoD cooperation model is not easily transferred to other situations.	RAND CORP SANTA MONICA CA	[Harris, Elwyn D.]	226	[RAND/R-2619- RC]	[NASA]	Approved for public release; distribution is unlimited.	Interim rept.
AD0662887	Proceedings of the OAR Research Applications Conference, Volume I.	3/14/1967	U	[A - 01]	The object of the OAR Research Applications Conference was to present and demonstrate, by specific examples, how proven results of OAR research may be applied, to solve Air Force or Department of Defense problems and how research is contributing to new concepts and technologies. The following papers are included in this volume: Positive ion-sensing system for the measurement of spacecraft attitude; Investigation of optimum lifting bodies; Gasdynamics of explosions and its relevance to propulsion; The OV1-promoter of timely space research; Computer-aided circuit design; A family of novel antennas (the 'backfire' antenna); The generation of science-based technology in the field of crystallization; Supersonic combustion simulation; Prediction of the dynamic stability of nose cones; Organic photovoltaic devices; Time optimal attitude control of a spinning vehicle. One additional paper, entitled 'The Alkaromatic Chlorocarbons', was issued separately as AD0662151.	OFFICE OF AEROSPACE RESEARCH ARLINGTON VA ARLINGTON United States	Not Available	249	[OAR 607-2-Vol- 1]	[OAR 607-2-Vol-1]	Approved For Public Release;	Conference Proceedings
AD0754411	Electromagnet ic Compatibility Manual	5/1/1972	U	[A - 01]	The material in the manual, with its contributions for improvements in the state-of- the-art of electromagnetic compatibility, provides a reference on methods for the reduction of electromagnetic interference and accomplishing electromagnetic compatibility in and between aircraft weapons systems.	NAVAL AIR SYSTEMS COMMAND WASHINGTO N DC	[Fisher, Joseph J.]	829	[NAVAIR-5335]	[NAVAIR]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA089526	Solar Power	3/1/1980	U	[A - 01]	Solar power satellites, if developed, could supply a large proportion of the world's	ROYAL	[Fearn,D.	195	[RAE-TR-	[BR-74953]	Not Available	Technical
	Satellites - A				future electrical energy requirements in a safe and pollution-free manner. However,	AIRCRAFT	G.]		80034,DRIC-BR-			rept.,
	Review of the				such enormous orbiting structures, with masses of up to 100000 tonnes, can only be	ESTABLISHME			74953]			
	Space				built and operated if suitable transportation systems are provided. This Report	NT						
	Transportatio				reviews the options available for lifting both heavy payloads and personnel to low	FARNBOROU						
	n Options.				earth orbit, and from there to geostationary orbit. It is concluded that conventional	GH						
					launcher technology, using liquid hydrogen/liquid oxygen engines, should be	(ENGLAND)						
					adequate for the former task. The latter can best be accomplished using electric							
					propulsion, with ion thrusters being the most suitable devices, owing to their high							
					efficiency and advanced state of development. Environmental effects of such a							
					transportation system are considered, and it is concluded that they should not prove							
					to be unacceptable. (Author)							
۵۵۵179873	Military Man	2/1/1987	11	[4 - 01]	This report Traces the Air Force's efforts to find a manned military space role. It	ΔIR	[Killebrew	75	[4050-87-1425]		Not Available	Student rent
101119079	in Space: A	2, 1, 190,	Ŭ	[/( 01]	hegins with the development of Dyna Soar shortly after World War II. The author	COMMAND	Timothy	75	[//050 0/ 1425]	[/(656]		1945-1987
	History of Air				Traces Dyna Soar's evolution and political problems that caused its eventual	AND STAFF	ninotiny D 1					1545 1507
	Force Efforts				cancellation and discusses the Manned Orbiting Laboratory from its beginnings in	COLL	5.1					
	to Find a				1963 until its cancellation in 1969. He also gives the potential uses of the Manned	MAXWELL						
	Manned Space				Orbiting Laboratory and the reasons behind its cancellation. The beginnings of the	AFB AL						
	Mission				Space Transportation System and the reasons behind the Air Force's decision to use							
					STS as the sole means of entering space are traced. The study concludes with a short							
					discussion on the future of Air Force manned space efforts including a follow-on to							
					the Space Shuttle and the probability of a Space Station.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0281775	Lectures in Aerospace Medicine, 8- 12 January 1962	1/20/1962	U	[A - 01]	Contents: History and Background of Astronautics; Occupational Medicine at the Launch Site; Selection and Stress Testing of Astronauts; Biologic Effects of High Energy Practices in Space; Physiologic Necessities in Simulated Lunar Flights; Biomedical Monitoring In-Flight; Weightlessness; a Physiological Problem in Space; Newer Aspects of Subcellular Photosynthesis; Bio-Instrumentation for Space Flight; What Can Man Contribute to Operations in Space; X-15 Operations in Pre-Lunar Studies; Response of Mammalian Systems to Non-Uniform Space Radiation Dose; Bio- Astronautic Support of the X-15 and Dyna- Soar; Interplanetary Environment; Extraterrestrial Life; Propulsion Systems for Lunar Operation; Ocular Effects of Particulate Space Radiation; Monitoring of Moon Base Atmospheres by Gas Chromatography; The Ecologic Profile of the Moon; Soil-Less Gardening on the Moon; The Lunar Crust for Life Support; Who Owns the Moon; The Logistics of Re-Launch from the Moon	SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TX	Not Available	105	Not Available	[SAM]	Approved for Public Release; Distribution Unlimited.	Not Available
AD0287957	PROCEDURES FOR THE DESIGN OF THERMAL PROTECTION SYSTEMS FOR MANEUVERAB LE RE-ENTRY VEHICLES	9/1/1962	U	[A - 01]	Atmospheric re-entry of earth-orbital, hypersonic glide vehicles creates thermal problems. The heat affects not only the materials and construction of the airframe but also the crew and various subsystems of the vehicle. Successful solution of these problems depends upon the development of an effective thermal protective concept, which will also give the designer some latitude in his design philosophy. The role of the protective system is to significantly attenuate the influx of heat that is aerodynamically generated within the surrounding boundary layer. Attenuation is accomplished by combining external radiation shielding elements with backup insulation materials and an appropriate cooling system. Analytical procedures are presented for determining significant system parameters by transforming the differential heat conduction or diffusion equation into an algebraic expression by employing the calculus of finite differences. The adaptation of the resulting equation to digital computer programming is discussed, and numerical results are presented to indicate systems of minimum weight.	AERONAUTIC AL SYSTEMS DIV WRIGHT FIELD OH	[TURRENTI NE, DONALD]	87	[ASD-TDR-62- 625]	[TDR-62-625,ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA602880	Reduced-	1/1/2012	U	[A - 01]	Design and simulation of hypersonic vehicles require simultaneous consideration of a	MICHIGAN	[Falkiewicz,	410	Not Available	[AFRL]	Approved for	Doctoral
	Order				variety of disciplines due to the highly coupled nature of the flight regime. In order to	UNIV ANN	Nathan J.]				public	dissertation
	Aerothermoel				capture all of the potential effects on vehicle dynamics, one must consider the	ARBOR DEPT					release;	
	astic Analysis				aerodynamics, aerodynamic heating, heat transfer, and structural dynamics as well as	OF					distribution is	
	of Hypersonic				the interactions between these disciplines. While high-fidelity modeling techniques	AEROSPACE					unlimited.	
	Vehicle				exist for each of these disciplines, the use of such techniques is computationally	ENGINEERING	i					
	Structures				infeasible in a vehicle design and control system simulation setting for such a highly							
					coupled problem. Many iterations of analyses may need to be carried out as the							
					vehicle design matures, thus requiring quick analysis turn-around time. Additionally,							
					the number of states used in the analyses must be small enough to allow for efficient							
					control simulation and design. As a result, alternative approaches must be considered							
					for vehicle simulations. This dissertation presents a fully coupled, reduced-order							
					aerothermoelastic framework for the modeling and analysis of hypersonic vehicle							
					structures. The reduced-order transient thermal solution used to obtain the							
					instantaneous temperature distribution is based on the projection of the governing							
					equations onto a modal subspace which is obtained via the proper orthogonal							
					decomposition (POD). The proper orthogonal decomposition is used for the thermal							
					problem due to its optimality properties which are described in the dissertation. The							
					reduced-order structural dynamic solution is also based on projection of the							
					governing equations onto a modal subspace. However, for the structural dynamics,							
					the modal subspace is composed of a set of Ritz modes which include both free							
					vibration modes and load-dependent Ritz vectors. In order to avoid the need t							
												1
						1						1

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA370400	Space Warfare and the Future Law of War	10/27/1999	U	[A - 01]	Publicists, scholars, and practitioners of international law have yet to produce a sustained analysis of the law of war as applied to armed conflict in outer space. Though no reported eases of armed conflict in space exist, the principal spacefaring nations have contemplated space warfare for decades. Concluding that the general legal regime regulating means and methods of warfare will apply to space combat, should it occur, this thesis attempts a preliminary examination. Chapter One presents a hypothetical space warfare scenario, followed by a chapter on the history of space combat. Chapter Three analyzes the international legal regime governing armed conflict, drawing conclusions for space warfare where possible. Chapters Four and Five analyze the legal regime governing the corpus juris spatialis (space law proper), as well as related treaties and instruments supplementing the legal norms for human activity in space, respectively. Chapter Six lays a foundational legal analysis for the application of the law of war to space combat, concluding with a section that addresses specific issues raised by such application.	AIR FORCE INST OF TECH WRIGHT- PATTERSONA FB OH	[Ramey, Robert A.]	209	[FY99-345]	[AFIT]	Not Available	Master's thesis
AD0731563	Preliminary Handling Qualities Requirements for Lifting Re- Entry Vehicles during Terminal Flight	8/1/1971	U	[A - 01]	Preliminary handling qualities requirements for lifting re-entry vehicles during terminal flight at low supersonic, transonic, and subsonic speeds are presented and discussed. Included are a preliminary draft of a flying qualities specification for piloted re-entry vehicles and the rationale and backup data upon which the flying qualities requirements are based. Many of the requirements were adapted from, or are similar to, the requirements for piloted airplanes presented in the latest revision of the flying qualities specification for military airplanes, MIL-F-8785B(ASG). Some requirements that are new and unique to lifting re-entry vehicles have been added. The format of the specification is similar to that of MIL-F-8785B(ASG), therefore, comparison of flying qualities requirements are preliminary and subject to revisions based on future research and additional discussions with interested contractors and government agencies.	CORNELL AERONAUTIC AL LAB INC BUFFALO NY	[DiFranco, Dante A.,Mitchell, John F.]	250	[CAL-BM-2995-F- 1,AFFDL-TR-71- 64]	[TR-71-64,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. Jul 1970-Jun 1971
ADA052778	Military Strategy,	1/1/1968	U	[A - 01]	Contents: General Concepts; The Military Strategy of Imperialist Countries and Their Preparation of New Wars; The Development of Soviet Military Strategy (1917-1945); The Nature of Modern War; Problems of the Organization of the Armed Forces; Methods of Conducting Warfare; Preparing a Country for the Repulsion of Aggression; Leadership of the Armed Forces; and Conclusions.	FOREIGN TECHNOLOGY DIV WRIGHT- PATTERSON AFB OHIO	[Sokolovsk y,V. D.]	496	[FTD-HT-23-555- 68]	Not Available	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0603307	PERFORMANC E PARAMETERS OF THE X-20 DYNA-SOAR PROTOTYPE FULL PRESSURE ASSEMBLY	5/1/1964	U	[A - 01]	The X-20 Dyna-Soar Prototype Model Full Pressure Assembly was subjected to a series of tests to determine the performance parameters of the suit. These tests include those considered to be the basic standard performance tests for anthropomorphous protective assemblies in addition to those particularly requested by the Dyna-Soar Project Office. This report presents all the data obtained from the various tests and is presented as indicative of performance parameters only. No attempt has been made to equate the assembly performance with the X-20 Dyna-Soar mission and vehicle performance or with the performance of any other anthropomorphous protective assembly.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Rock, Lee C.]	41	[AMRL-TDR-64- 27]	[TDR-64- 27,AMRL]	Not Available	Rept. for 27 Sep 1962-3 Jan 1963
AD0125726	MX-2276 RECONNAISSA NCE AIRCRAFT WEAPON SYSTEM. SYSTEM DESIGN	12/1/1955	U	[A - 01,23]	The primary objective of this study is to conduct analytical investigations and design studies of a weapon system in aerodynamics, structures, navigation and Control, system design, photographic subsystem, powerplant and summary report.	BELL AEROSPACE CO BUFFALO NY	Not Available	159	[D143-945-027]	[USAF]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0429201	PROCEEDINGS OF 1962 X- 20A (DYNA- SOAR) SYMPOSIUM. ABSTRACTS.	3/1/1963	U	[A - 01]	Abstracts of the Proceedings of the 1962 X-20A (Dyna-Soar) Symposium are presented in this report. The X-20A program developing the pilot controlled lifting reentry glider and conducting full-scale hypersonic flight research is one of the most extensive advanced developments under way in the Air Force. To insure the timely dissemination of the data obtained by the X-20A program, the 1962 X-20A symposium was held to present new and significant knowledge gained during this development period to the aerospace industry, scientific and Government agencies. Materials were presented in ten technical areas consisting of flight mechanics, structures, materials, guidance, communications, instrument power and environment subsystems, bioastronautics, testing and ground support. Papers in two of these areas are assembled in each of five volumes of this report. (Author)	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	172	Not Available	[ASD-TDR63-148- vol-6]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0294695	DESIGN CONSIDERATI ONS IN SELECTING MATERIALS FOR LARGE SOLID- PROPELLANT ROCKET- MOTOR CASES	12/10/1962	U	[A - 01]	Design considerations that influence the selection of materials for rocket-motor cases are discussed. The main intent is to clarify considerations of design for the benefit of the materials specialists in the aerospace industry and for the benefit of the materials industries which supply the aerospace industry. A brief discussion is given of types of missiles and mission profiles. This is followed by a discussion of the external and internal loads and environment to which the missile is subjected. The mechanical and thermal loads are reacted by the motor case acting as a structure; hence, a discussion of stresses and other design factors is included. Next, structural safety and reliability are discussed from a design point of view. The following aspects of basic material behavior are discussed in relation to motor-case design requirements: static mechanical behavior, fatigue behavior, thermal effects, and other environmental effects. In order to provide realistic criteria for materials selection, design for minimum weight is presented from the material- index point of view. Considerations not related directly to design, for example, producibility, cost, and corrosion resistance, are not included.	BATTELLE MEMORIAL INST COLUMBUS OH DEFENSE METALS INFORMATIO N CENTER	[BERT, C. W.,HYLER, W. S.]	76	[180]	[ODDRE]	Approved for public release; distribution is unlimited.	Not Available
AD0657590	HUMAN FACTORS ENGINEERING BIBLIOGRAPHI C SERIES. VOLUME III. 1965 LITERATURE	5/1/1967	U	[A - 01]	This bibliography is the third in a planned series of bibliographies of literature pertinent to the field of human factors engineering. It covers literature of 1965. This bibliography consists primarily of: (1) an index to the human factors literature, and (2) the annotated bibliography.	TUFTS UNIV MEDFORD MA INST FOR PSYCHOLOGI CAL RESEARCH	[Ronco, Paul G.]	542	[HEL-BIB-VOL-3]	[BIB-VOL-3,HEL]	Not Available	Not Available
AD0661301	PSYCHOLOGIC AL RESEARCH IN NATIONAL DEFENSE TODAY	6/1/1967	U	[A - 01,23]	Screening and classification; Review of contemporary military training researchthe state of training technology and studies of motivation and attitudes in learning; Psychophysiological factors influencing military performance; Environmental and adjustment factors influencing individual performance; Contributions of engineering psychology to military systems; Man-machine paradigm in large information processing systems; Implications of data techniques and information processing methodology in command and control; Exercising teams in military systems through the use of simulation; Influence exerted by U. S. military personnel and systems in attitudes and behaviors of indigenous peoples overseas; Utilizing posture strategies and weapons systems as instruments of influence.	ARMY BEHAVOIR AND SYSTEMS RESEARCH LAB ARLINGTON VA	Not Available	375	[BESRL-TR-S-1]	[BESRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Technical rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA323109	Contributions of Balloon Operations to Research and Development at the Air Force Missile Development Center Holloman Air Force Base, N. Mex 1947- 1958.	1/1/1958	U	[A - 01]	Among the many activities at the Air Force Missile Development Center contributing to the expanding fields of guided missiles and space technology, that of the Balloon Branch is among the more important. Upon first consideration, the contributions of ballooning may seem detached from the development of missile weapon systems or the conquest of space. Actually, the connection is direct and of greatest importance. Over the past twelve years the accomplishments of Holloman's Balloon Branch have contributed significantly to the work of many other units; various missile projects, research in space biology and biodynamics, the exploration of the upper atmosphere, and the development of artificial cabin environments which will be required for manned space flight. In addition, they have materially furthered the entire state of the art of ballooning, itself. The historical monograph presented here carefully documents the contributions of twelve years of balloon operations at this major test, research, and development center.	AIR FORCE MISSILE DEVELOPME NT CENTER HOLLOMAN AFB NM	Not Available	165	Not Available	[AFMDC]	Not Available	Not Available
AD0419092	ON THE SYNTHESIS OF RESISTOR N- PORTS	4/23/1963	U	[A - 01]	The problem of determining the necessary and sufficient conditions for a symmetric matrix to be the short-circuit admittance matrix of a transformerless resistor n-port is a classic problem in network theory. The problem is formulated topologically, and it is shown that it can be related to the well known solution for the realization of a nodal admittance matrix. In fact, the short-circuit admittance matrix and the nodal admittance matrix are shown to be related by a congruence transformation which is uniquely defined by the topology of the ports. In the special case of an n1 terminal realization, this transformation becomes the Kron transformation. The problem of realizing a given symmetric matrix is, therefore, reduced to the determination of the configuration of port voltages. It is shown that the n1 terminal case is identical to the problem of realizing a given matrix as a fundamental cut-set matrix, i.e., finding a graph which has a fundamental cut-set matrix such that it is equal to the given matrix. The n1 terminal case is studied in detail, and a simple procedure for determining the topology of the port voltages from a given matrix which contains no zero elements is derived. This synthesis procedure has th advantage of being direct, and it proceeds almost by inspection. A number of examples are given which illustrate the relative simplicity of this technique, and the synthesis of three ports is considered in detail.	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[Boesch, Francis T.]	70	[PIBMRI-1143- 63,RADC-TDR-63- 294]	[TDR-63- 294,RADC]	Approved for public release; distribution is unlimited.	Research rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0293855	PHYSIOLOGIC AL AND PSYCHOLOGIC AL EFFECTS OF SPACE FLIGHT: A BIBLIOGRAPH Y VOLUME II. WEIGHTLESSN ESS AND SUBGRAVITY	1/1/1963	U	[A - 01]	This bibliography, consisting of 385 references (mostly annotated) on weightlessness and subgravity studies is the second in a series of volumes pertaining to the physiological an psychological effects of space flight. The majority of references are those published during the period January, 1952, to November, 1962. Author, agency, periodical, subject and ASTIA indices are included.	TRW SPACE TECHNOLOGY LABS LOS ANGELES CA	[PRICE, J.F.]	167	[RB44]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0603704	THE X-20 FLIGHT CONTROL SYSTEM DEVELOPMEN T	6/1/1964	U	[A - 01]	This report attempts to provide continuity and rationale to the development of the Flight Control System for the X-20 (Dyna-Soar) Vehicle. The unique features are noted and the documents providing details of these features are referenced. The more significant problems encountered in the development are discussed together with the solution or the approaches being taken to obtain a solution.	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OH	[McDonald , Edward H.,Farris, Joseph A.]	24	[SEG-TDR-64-8]	[TDR-64-8,SEG]	Approved for public release; distribution is unlimited.	Not Available
AD0414497	PROCESSING AND EVALUATION OF PRE- PRODUCTION QUANTITIES OF COLUMBIUM ALLOY SHEET	8/20/1963	U	[A - 01]	The 0.155-inch B-66 sheet processed in the preceding report period was further processed to final gage, 0.050 inch. The yield of 46.4% from extrusion billet compares favorably with yields for other columbium alloys which are generally less difficult to fabricate. Sheet flatness was excellent and was 3.1% maximum. Gage uniformity was good, and AMS specifications were generally met; additional work is indicated to produce 1/2 AMS tolerances in the alloy. The FS-85 ingot, 6 3/8-inches in diameter and weighing 303 pounds, was readily forged to 2 5/8-inch thick slab and a high yield of material is expected from this operation.	WESTINGHO USE ELECTRIC CORP BLAIRSVILLE PA	Not Available	22	Not Available	[NAVWEPS]	Approved for public release; distribution is unlimited.	Interim rept. no. 2, 24 Apr- 23 July 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA370828	Creep and Fracture of Engineering Materials and Structures Proceedings of the 8th International Conference on Creep and Fracture of Engineering Materials and Structures, held in Tsukuba, Japan, November 1- 5, 1999	11/15/1999	U	[A - 01]	Sampling of proceedings includes the following: (1) "Recent Developments in the Analysis of Creep Rupture Data"; (2) "Creep Crack Growth in Nearly Fully-Lamellar Gamma TiA1 Alloys"; (3) "Research of Welding Effect on Creep Damage of High Temperature Furnace Tubes"; (4) "The Reversibility of Creep Strain at Low Stresses and Low Temperatures"; (5) "Deformation Behavior of 7475 Aluminum Alloy at High Temperatures"; and (6) "Creep of Reinforced and Unreinforced AZ91 Magnesium Alloy".	TOKYO UNIV (JAPAN)	[Sakuma, T.,Yagi, K.]	857	[AOARD-CSP-99- 12]	[CSP-99- 12,AOARD]	Not Available	Conference proceedings 1-5 Nov 99
AD0274190	SPACECREW TRAINING: A REVIEW OF PROGRESS AND PROSPECTS	12/1/1961	U	[A - 01]	Current progress and future prospects in the field of spacecrew training are reviewed. Descriptions of all current astronaut training programs are presented, and a number of general conclusions with reference to such training are drawn, based upon the manned space operations which have been conducted to date. In addition to the actual experience which has been gained in training spacecrew personnel, a review is presented of recently completed and current research which is directly relevant to this problem. Areas in which research should be accelerated are identified.	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[ECKSTRAN D, GORDON A.,ROCKW AY, MARTY R.]	32	[ASD-TR-61-721]	[ASD]	Approved for public release; distribution is unlimited.	Technical rept.
Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
-----------	--	-------------	--------	--------------	---	---	--------------------	-------	------------------	----------------	---	---------------------
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA615508	Voyaging Beyond the Pillars of Hercules: A Model for the Future Role of Human Spaceflight Exploration in U.S. Grand Strategy	6/1/2013	U	[A - 01]	Why do states explore? The modern version of this question is, "Why send people to explore space? " Idealists answer, "Because humans are inspired by other humans exploring the unknown." In their view, the imperative to explore space is self-evident and self-sustaining because of the unquenchable curiosity of the human spirit to expand knowledge and tame the unknown. On the opposite side of the spectrum, pragmatists view sending humans to space as a useful endeavor only if the act tangibly addresses a competitive threat to some element of state national security. Absent this clearly defined purpose, human spaceflight is derided as an expensive state luxury with little public importance beyond trite references to Velcro, Tang breakfast drink, or thrilling science fiction media. Both of these views have merit, yet they are also incomplete. The previous 50 years of human spaceflight exists within the same family of strategic exploration campaigns as the Ming Dynasty journeys of Admiral Zheng He, Vasco De Gama's Indian Ocean voyages for Portugal, or the trek of Norway's Roald Amundsen and Great Britain's Robert Scott across the Antarctic. Surveying these types of campaigns is necessary for building a unified Exploration Model; one that synthesizes the best perspectives of both pragmatist and idealists to produce a better analytic framework for strategists. Once constructed, this model becomes the lens to analyze key episodes in American, Russian, and Chinese human spaceflight exploration. The lessons from these case studies form the basis of a viable human spaceflight strategy to enhance overall American spacepower in the face of rising competition and dwindling resources.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIR AND SPACE STUDIES	[Gordon, Randy]	269	Not Available	[AU-SAASS]	Approved for public release; distribution is unlimited.	Master's thesis
AD0257485	CROSS- COUPLING IN MULTIPLE BEAM ANTENNAS	4/1/1961	U	[A - 01]	This report includes: CROSS-COUPLING IN MULTIPLE BEAM ANTENNAS. PART 1. RADIATION EFFICIENCIES (WITH APPLICATIONS TO ANGLE DIVERSITY) by S. Stein. Apr 1961, 1v. incl. illus. (Rept. no. ARM-237) (Contract AF 19(604)-7237) CROSS- COUPLING IN MULTIPLE BEAM ANTENNAS. PART 2. CHARACTERISTICS OF THE CROSS- COUPLING MATRICES, by S. Stein and J. E. Storer. Apr 1961, 16p. (Rept. no. ARM- 238) (Contract AF 19(604)-7237)	SYLVANIA ELECTRIC PRODUCTS INC WALTHAM MA	Not Available	110	[SR-1,AFCRL-190]	[190,AFCRL]	Approved for public release; distribution is unlimited.	Scientific rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0291208	Status of Refractory Metals Sheet Rolling Panel	12/1/1962	U	[A - 01,23]	It is the purpose of this report to describe the functions and current status (as of August 1962) of the activities of the Materials Advisory Board Refractory Metals Sheet Rolling Panel.	NATIONAL ACADEMY OF SCIENCES- NATIONAL RESEARCH COUNCIL WASHINGTO N DC WAR METALLURGY COMMITTEE	[Lane, Joseph R.,Ault, G. M.]	36	[MAB-188-M]	[DDRE]	Approved for public release; distribution is unlimited. Document partially illegible.	Status rept.
AD0477758	X-20 HIGH TEMPERATUR E SIDE WINDOW TEST EVALUATION	11/1/1965	U	[A - 01]	The purpose of this program was to experimentally verify the X-20A side window assembly and provide experience for improved window design. The objective was to verify the structural integrity of an X-20A high temperature window design in the X-20A flight environment and provide test data to evaluate the design analysis and development procedures utilized. The window was subjected to a low-level boost vibration environment, outward acting (partial vacuum) limit boost pressure of 7.7 psia, and a simulated reentry heating time- temperature history. The window failed during the re-entry temperature cycle. The primary cause of failure was the high temperature gradient through the depth of the window frame of approximately 850 F which exceeded by a factor of 2 the ultimate design value. The extreme thermal gradient caused thermal curvature of the window frame which induced glass curvature in excess of allowable. Measured temperature and deflections are presented and compared with analytical values. A thermal analysis is presented and compared with analytical values. A thermal analysis is presented and griven.	BOEING AEROSPACE CO SEATTLE WA	[McGinnis, John C.]	222	[D2-81310- 1,AFFDL-TR-65- 155]	[TR-65- 155,AFFDL]	Approved for public release; distribution is unlimited.	Final technical rept. 27 Apr 1964-1 Aug 1965
AD0733892	United States Air Force History. An Annotated Bibliography	10/1/1971	U	[A - 01]	Reports of American aircraft events at Fort Myer, Virginia, in 1908 and published extensively in the United States and Europe, marked the beginning of an immense flood of literature about military aviation and aviators, and air deeds in war and peace. This annotated bibliography on U. S. Air Force history is a sampling of that literature, prepared primarily for the student and scholar.	OFFICE OF AIR FORCE HISTORY WASHINGTO NDC	[Cresswell, Mary Ann,Berger , Carl]	110	Not Available	[USAF]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		1	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0621139	TELEMETRY FM/FM BASEBAND STRUCTURE STUDY. VOLUME 1	6/14/1965		[A - 01]	This final report describes an experimental evaluation program which was undertaken to investigate the technical feasibility of expanding the Inter- Range Instrumentation Group (IRIG) FM/FM baseband to include a larger number of channels, choice of constant- or proportional-bandwidth subcarrier channels, and greater flexibility in operating parameters. The program consists of: an evaluation of typical field equipment; design of an expanded proportional- bandwidth baseband, a constant bandwidth baseband and a baseband composed of combinations of constant and proportional-bandwidth channels; and an experimental evaluation of each baseband using typical field equipment in a complete laboratory telemeter. Results are obtained for operation of the standard IRIG baseband at deviation ratios of 1, 2, and 5, as well as operation of the baseband with higher frequency channels at 93 kc, 124 kc, and 165 kc. A 21-channel constant-bandwidth baseband with channels spaced 8 kc apart from 16 kc and deviated =2 kc is evaluated at deviation ratios of 1, 2, and 4. In addition, a baseband composed of the first 11 IRIG channels plus the 21 constant bandwidth channels is evaluated. Recommendations for expansion and operation of the FM/FM baseband are given as well as a discussion of the results of the system evaluation test. This report thus provides technical information which may be used by the Telemetry Working Group (TWG) of IRIG for consideration of expansion of the FM/FM baseband structure, but should in no way be considered to represent recommendations of the TWG or IRIG.	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FL	[Campbell, E. B.,Herbert, W. R.]	175	Not Available		Approved for public release; distribution is unlimited.	Final rept.
AD0756850	Design Integration Test Requirements - Dyna-Soar	5/11/1962		[A - 01,23]	The report contains the design integration test requirements for the Dyna-Soar Program and shall serve as the official source for Project Section and Staff usage. The document is designed to provide a single point of reference for all design integration test requirements and shall be used in generating the development test plans. Design integration tests consist of engineering testing wherein system design variables are investigated to verify the physical and functional capability and compatibility of mated subsystems using hardware completely representative of production configuration.	BOEING CO SEATTLE WA	[Tilbury, R. P.,Minkler, W. F.]	94	[D2-7924]	[AFFDL]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0476309	PIBOL (PILOT- IN-THE- BOOSTER- LOOP) STUDY	3/1/1964	U	[A - 01]	The purpose of this study was to determine if, and under what conditions, the Titan III launch vehicle could provide response characteristics necessary for piloted control (PIBOL) during powered flight. This study determined the changes required to the Titan III system to provide these response characteristics, defined other hardware necessary for piloted control, compared the piloted system's reliability to that of the standard Titan III system, and determined the schedule and cost implications of PIBOL. This study did not evaluate the pilot's contribution to mission success. The results of this study showed that the Titan III launch vehicle can provide the response requirements desired with a minimum change to the system configuration. At the same time, the effect of inertial guidance system failures is effectively eliminated, through the use of the pilot and the changes defined by this study.	MARTIN CO DENVER CO	[Turner, D. L.]	273	[SSD-CR-64-32]	[SAMSO]	Approved for public release; distribution is unlimited.	Not Available
AD0258041	PHYSICAL METALLURGY OF NICKEL- BASE SUPERALLOYS	5/5/1961	U	[A - 01]	Not Available	BATTELLE MEMORIAL INST COLUMBUS OH DEFENSE METALS INFORMATIO N CENTER	[Lund, C. H.]	47	[DMIC-R-153]	[ODDRE]	Approved for public release; distribution is unlimited.	Not Available
ADA353915	The Fundamental Issues Study within the British BMD Review	2/1/1998	U	[A - 01]	My remit, as the member of the PFS team responsible for the Fundamental Issues Study, (FIS), has been to conduct a synoptic and independent assessment of the approach Britain should adopt to BMD. Among the aspects considered have been geopolitics, threat development, the technological environment, the operational context, the principle of comparative costing, arms control, pollution effects, industrial collaboration, and participation in Space. I have not been involved in the PFS predictions of how particular systems would perform in specific scenarios. Nor have I been concerned with the life-cycle costings of alternative options. My main aim has been to think laterally about the linkages between issues, not least as between technical/operational considerations and geopolitical or philosophical ones.	MANSFIELD COLL OXFORD (UNITED KINGDOM)	[Brown, Neville]	151	Not Available	[XD]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0271384	COATINGS FOR THE PROTECTION OF REFRACTORY METALS FROM OXIDATION	11/1/1961	U	[A - 01]	Identifiers: Pack cementation, Hot dipping.A summary is presented of the current state of the art of coatings to protect refractory metals from oxidation. Coatings for Mo are the most advanced, followed by those for Nb alloys. Significant progress was made on coatings for Ta alloys. W has received some attention, but the temperature range precludes any easy solutions. No coatings are available for V alloys. Silicide- base coatings are of most importance for Mo and W. Both the aluminide and silicide- base coatings were of genuine value for the protection of Nb and Ta alloys.	BATTELLE MEMORIAL INST COLUMBUS OH DEFENSE METALS INFORMATIO N CENTER	[Krier, C. A.]	235	[DMIC-162]	[DDRE]	Approved for public release; distribution is unlimited.	Not Available
AD0410497	LITERATURE ON DESIGN TECHNIQUES AND ANALYTICAL METHODS FOR BRITTLE MATERIALS	4/1/1963	U	[A - 01]	Contents: Statistical static strength theories Fatigue Fracture theory Brittle behavior Thermal stress Notch sensitivity and stress concentration Creep Crack propagation Materials environment Joints	IIT RESEARCH INST CHICAGO IL	[Barnett, Ralph L.]	265	[ARF-8259]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
ADA285480	Leaky Wave Radiation from a Periodically Slotted Waveguide	5/8/1963	U	[A - 01]	A rectangular waveguide with transverse slots located periodically in the broad wall is analysed by the transverse resonance procedure. The slots are replaced by equivalent conductances and susceptances; these are used in the resonance equation to obtain leaky and surface wave solutions. The theoretical solutions for the complex axial propagation constant are found, and these results are verified experimentally. The transverse resonance method of solution is shown to present advantages over previously derived results.	AIR FORCE CAMBRIDGE RESEARCH LABS HANSCOM AFB MA	[Renault, J. P.]	33	[AFCRL-63-139]	[63-139,AFCRL]	Approved for public release; distribution is unlimited.	Not Available
AD0287790	CONFERENCE ON HIGH TEMPERATUR E POLYMER AND FLUID RESEARCH	8/1/1962	U	[A - 01,23]	The synthesis, chemistry, and properties of a variety of heterocyclic polymers is discussed in thirty three papers presented at the Conference of which twenty eight are of interest to Plastic. The mechanisms, kinetics, and thermodynamics of the crosslinking, degradation, and combining reactions of the polymers were investigated both theoretically and experimentally. Test methods and test equipment are described, and data are presented.	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[MCHENRY , ROBERT J.]	646	[ASD-TDR-62- 372]	[TDR-62-372,ASD]	Availability: Document partially illegible.	Technical documentary rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA426594	Performance	3/1/2004	U	[A - 01]	This study investigated the performance of five Two-Stage-To-Orbit reusable launch	AIR FORCE	[Brock,	110	[AFIT/GSS/ENY/0	[AFIT]	Not Available	Master's
	Study of Two-				vehicles (RLV), with stages propelled by rocket engines, turbojet engines and Rocket	INST OF TECH	Marc A.]		4-M02]			thesis
	Stage-To-Orbit				Based Combined Cycle (RBCC) engines. Horizontal versus vertical takeoff launch and	WRIGHT-						
	Reusable				direct versus lifting ascent trajectories were also studied. A method was conceived	PATTERSONA						
	Launch				using a 3 degree of freedom optimization program, stage inert mass fractions, and a	FB OH DEPT						
	Vehicle				fixed gross takeoff weight (GTOW) of 1,000,000 lbf to determine each RLVs	OF						
	Propulsion				performance based on payload weight delivered to orbit and total vehicle inert	AERONAUTIC						
	Alternatives				weight. RLV trajectory constraints, mass fractions, engine performance, and	S AND						
					aerodynamics were assumed from literature of similar RLVs or data provided by the	ASTRONAUTI						
					Air Force Research Laboratory (AFRL). The method devised accurately predicted	CS						
					performance for all RLVs studied, but was time intensive and intolerant of small							
					trajectory modifications. A horizontal takeoff RLV with the 1st stage powered by							
					turbojet engines and the 2nd stage propelled by a rocket engine, in a lifting ascent							
					trajectory, provided 3 times the payload weight to orbit when compared to the same							
					vehicle in a vertical takeoff mode. The RLV with both stages propelled by rocket							
					engines lifted more payload weight into orbit with a lower inert weight than all other							
					RLVs studied. RLVs propelled by RBCC engines, on a direct ascent trajectory, had							
					insufficient fuel to reach orbit because of the high inert weight of the RBCC engines.							
ADA369676	Space and	10/1/1979	U	[A - 01]	This chronology deals with the Space and Missile Systems Organization (SAMSO). It	AIR FORCE	[Greenwoo	466	Not Available	[AFHSO]	Not Available	Final rept. Jul
	Missile				begins with 1954, when the first predecessor of SAMSO was established, and ends	HISTORY	d, John T.]					54-Oct 79,
	Systems				with 1979, when SAMSO was deactivated and replaced by two new organizations.	SUPPORT						
	Organization:				The chronology is composed of three principal sections: an introductory overview,	OFFICE						
	A Chronology,				the chronology itself, and a series of appendices. The overview is a brief narrative	BOLLING AFB						
	1954-1979.				summary of the activities of SAMSO and its predecessors. The chronology, as the	DC						
					name indicates, is a detailed chronicle of events and accomplishments. The various							
					appendices are designed to amplify and clarify certain aspects of SAMSO's history. An							
					index has been provided to assist the reader in finding specific information more							
					readily.							
1				1		1					1	

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0432006	AEROSPACE	1/1/1963	U	[A - 01,23]	Thirty two papers are presented in which work efforts on the design, packaging,	AIR FORCE	Not	724	Not Available	[AFFDL]	Approved for	Not Available
	EXPANDABLE				materials selection, fabrication, deployment, rigidizing and testing of expandable	AERO	Available				public	
	STRUCTURES				(including rigid, inflatable and collapsible) structures are reported. Structures covered	PROPULSION					release;	
					include: space station and extraterrestrial shelters, communications satellites, space	LAB WRIGHT-					distribution is	
					vehicle devices, telescoping structures, balloons, solar collectors, rentry vehicles, and	PATTERSON					unlimited.	
					assorted scientific payloads.	AFB OH					Document	
											partially	
											illegible.	
ADA394062	The "Space" of	5/1/2000	U	[A - 01]	This paper attempts to tackle the "why?" and "how?" questions facing the United	PITTSBURGH	[Billman,	254	Not Available	[AFFP]	Not Available	Thesis
	Aerospace				States Air Force (USAF) vis-a-vis realizing full spacepower capabilities, i.e. not only	UNIV PA	Gergory					
	Power: Why				improved force enhancement and space force support, but more importantly, space		M.]					
	and How				control and space force application. All this while dealing with daily, real-world issues							
					like expanded world hotspots, aging operational fleets and infrastructure, dwindling							
					manpower, and limited budgets. Calls are already "out there" today for separating							
					the missions of air and space into two different services, If this were to happen, the							
					USAF would eventually lose its raison d'etre of global strategic attack to the nation's							
					space force. This should not occur. Because of the very nature of its potential to							
					apply similar, yet greater, effects into the battlespace, the "space" of "aerospace"							
					belongs in the nation's aerospace force!							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA517600	CFD Analysis	3/1/2010	U	[A - 01]	Reusable launch vehicles have many benefits over their expendable counterparts.	AIR FORCE	[Switzer,	84	[AFIT/GAE/ENY/1	[AFRL-RB-WP]	Approved for	Master's
	of				These benefits range from cost reductions to increased functionality of the vehicles.	INST OF TECH	Benjamin		0-M25]		public	thesis
	Experimental				Further research is required in the development of the technology necessary for	WRIGHT-	P.]				release;	
	Wing and				reusable launch vehicles to come to fruition. The Air Force Institute of Technology's	PATTERSON					distribution is	
	Winglet for				future involvement in the ExFIT program will entail designing and testing of a new	AFB OH					unlimited.	
	FalconLAUNC				wing tip mounted vertical stabilizer in the hypersonic regime. One proposed venue	SCHOOL OF						
	H 8 and the				for experimentation is to utilize the United States Air Force Academy's FalconLAUNCH	ENGINEERING						
	ExFIT Program				Program which annually designs, builds, and launches a sounding rocket capable of	AND						
					reaching hypersonic speeds. In the Spring of 2010 an experimental wing geometry	MANAGEME						
					will be flown on FalconLAUNCH VIII for the ExFIT Program. The following study	NT						
					outlines the Computational Fluid Dynamics analysis used to determine lift and drag							
					characteristics as well as temperature distributions of the wing geometry before							
					testing to produce a successful launch. A majority of this analysis focused on the							
					effects caused by shock waves forming on the winglet and their impact on the lifting							
					characteristics and temperature distribution of the wing. Ultimately a							
					recommendation of a 3 degree angle of attack is given for the experimental wings on							
					the rocket. At this configuration the lift and drag generated by the experimental							
					wings will be at a minimum allowing for greater stability and speed throughout the							
					flight of the rocket.							
ADA442852	The U.S. Air	1/1/1998	U	[A - 01]	On September 21 and 22, 1995, the Air Force Historical Foundation convened a	AIR FORCE	[Hall, R.	202	Not Available	[AFHSO/WA]	Approved for	Not Available
	Force in Space				historical symposium on the United States Air Force's experience in the development	HISTORICAL	C.,Neufeld,				public	
	1945 to the				of space systems and their military applications. Held at the Andrews Air Force Base	STUDIES	Jacob]				release;	
	Twenty-first				Officers' Club, Maryland, the symposium was the culmination of nearly a year-long	OFFICE					distribution is	
	Century				planning effort headed by a committee chaired by Lt. Gen. Bradley Hosmer, USAF	WASHINGTO					unlimited.	
					(Ret.).	N DC						

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0273065	COMPILATION OF MATERIALS RESEARCH DATA	3/1/1962	U	[A - 01]	A progress report is presented in the form of a collection of 12 internal reports generated on materials investigations. The individual reports are submitted in their entirety rather than in condensed form. Mechanical properties of metals constitute the bulk of the report; included are data on commercially pure Ti and 8 Ti alloys, several Al alloys in various cold worked and/or heat treated conditions, Type 301 stainless steel, 20 and 25% Ni steels, and Rene 41 Ni-base alloy. Cryogenic testing was emphasized in most of this work. Subsequent sections of the report contain single reports concerning tensile properties of structural plastics at low temperature, X-ray diffraction studies of martensite content in Type 301 stainless steel, and linear expansion determinations at low temperatures on Polycel 420 and Conolon 506.	GENERAL DYNAMICS CORP POMONA CA POMONA DIV	[Bergstedt, P.]	183	[AE-62-0138-3]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
AD0425704	THERMAL INSULATIONS FOR AEROSPACE APPLICATIONS : -423 TO 3000 F	9/1/1963	U	[A - 01]	Very recent advances in thermal insulation developments for the temperature range from liquid hydrogen (-423 F) to +3000 F are reviewed. Some fundamental discussion of convective, conductive, and radiative heat transport mechanisms over this wide temperature range is included in analyzing the observed thermal characteristics of various insulation materials and composites. Variations in overall thermal conductance as a function of such parameters as absolute temperature level, interstitial gas pressure, density, radiation scattering and attenuation, and insulation geometry are discussed for recently developed powders, fibers, foams, and multilayer composites. Recent experimental results of USAF programs on these types of materials are presented and analyzed.	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Minges, M. L.]	34	[ASD-TDR-63- 699]	[TDR-63-699,ASD]	Not Available	Not Available
AD0756852	Development Test Plan - Qualification Dyna-Soar (Step I)	9/18/1961	U	[A - 01,23]	The report describes qualification tests performed to validate the acceptability of lifting reentry vehicles, vehicle components, and related ground support equipment.	BOEING CO SEATTLE WA	[Rasmusse n, R. K.,Frazier, W. D.]	194	[D2-5697-16-VOL 4]	AFFDL]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA194332	Soviet Space	4/1/1988	U	[A - 01]	This study establishes the need for a handbook on the Soviet space program. The first	AIR	[Longstaffe	90	[ACSC-88-1610]	Not Available	Not Available	Student
	Program				section describes the three Soviet space launch sites. The second describes the	COMMAND	, Roy]					rept.,
	Handbook.				operational Soviet space launch vehicles including their dimensions, capabilities, and	AND STAFF						
					payloads. Each major Soviet satellite program is then described in detail. Included	COLL						
					here are orbital parameters, constellation sizes and phasings, mission profiles, and	MAXWELL						
					vehicle descriptions. And finally, the handbook contains several useful appendices	AFB AL						
					such as launch azimuth vs. inclination graphs for each launch site, a geosynchronous							
					coverage schematic, and several historical analyses.							
AD0403979	NEW	1/1/1963	U	[A - 01]	The infinite modulated reactance sheet is studied with the phase and amplitude	THOMAS (A	[Thomas,	130	[M58-4-	[63-102,AFCRL]	Approved for	Not Available
	TECHNIQUES				contours of the near field presented. It is shown that the infinite reactance sheet is	S) INC	Abdelnour		FTR,AFCRL-63-		public	
	OF PATTERN				an excellent description of the modulated Yagi. Experiment al radiation patterns of	WESTWOOD	S.]		102]		release;	
	SHAPING FOR				low-sidelobe endfire arrays are given together with radiation patterns of Yagi arrays	MA					distribution is	
	LOW				giving cosecant type radiations, flat-top flared beams, and beams at an arbitrary						unlimited.	
	SILHOUETTE				angle. The beams at an arbitrary angle are ob tained from a cosine to the even power							
	ANTENNAS				modula tion of the relative wave number.							
AD0403979	NEW TECHNIQUES OF PATTERN SHAPING FOR LOW SILHOUETTE ANTENNAS	1/1/1963	U	[A - 01]	such as launch azimuth vs. inclination graphs for each launch site, a geosynchronous coverage schematic, and several historical analyses. The infinite modulated reactance sheet is studied with the phase and amplitude contours of the near field presented. It is shown that the infinite reactance sheet is an excellent description of the modulated Yagi. Experiment al radiation patterns of low-sidelobe endfire arrays are given together with radiation patterns of Yagi arrays giving cosecant type radiations, flat-top flared beams, and beams at an arbitrary angle. The beams at an arbitrary angle are ob tained from a cosine to the even power modula tion of the relative wave number.	THOMAS (A S) INC WESTWOOD MA	[Thomas, Abdelnour S.]	130	[M58-4- FTR,AFCRL-63- 102]	[63-102,AFCRL]	Approved for public release; distribution is unlimited.	Not

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0297539	POLYMER	10/1/1962	U	[A - 01,23]	Theoretical studies of the properties of polymers in dilute solution have involved: the	CARNEGIE-	[OROFINO,	121	[ASD-TR-61-22-	[TR-61-22-PT-	Availability:	Technical
	STRUCTURES				effect of heterogeneity in molecular weight on the second virial coefficient; the	MELLON	Т.		PT-2]	2,ASD]	Document	rept.
	AND				relation of chain dimensions to the virial coefficient; and the effect of chain branching	UNIV	A.,MICKEY,				partially	
	PROPERTIES				(for the case of the star molecule with an arbitrary number of branches) upon both	PITTSBURGH	J.				illegible.	
					dimensions and virial coefficients in poor solvents. Experimental results on the	PA MELLON	W.,CASASS					
					effects of branching are reported for polystyrene trifunctional molecules in both	INST OF	Α, Ε.					
					good and poor solvents. Linear polystyrene has been used in studying specific solvent	SCIENCE	F.,BERRY,					
					effects on chain dimensions in media exhibiting very similar values for the Flory		G.					
					temperature. Some refinements have been made in the design of a light scattering		C.,ALLEN,					
					photometer, and calibration procedures for establishing the absolute magnitude of		V. R.]					
					Rayleigh scattering have been critically evaluated. The melt viscosities of mixtures of							
					polymer fractions of very different. molecular weights appear to depend on the							
					viscosity average molecular weight in a theta solvent rather than a higher molecular							
					weight average, as has been suggested. New characterization data have been							
					obtained for the vinyl acetate polymer obtained by emulsion polymerization in the							
					presence of protein and detergent. From measurements of swelling of crosslinked							
					polyethylene in solvents of different structure, it is concluded that specific solvent							
					effects on chain dimensions are inappreciable for this polymer.							
ADA049380	Factors of	11/1/1977	U	[A - 01,53]	The concept of the factors of structural safety presently applied to the design of fixed-	ADVISORY	Not	72	[AGARD-R-661]	[AGARD]	Approved for	Not Available
	Safety,				wing aircraft can be traced back some 50 years. The last decades have brought about	GROUP FOR	Available				public	
	Historical				rapid progress in establishing aerodynamic derivatives, defining load conditions and	AEROSPACE					release;	
	Development,				predicting structural loads as well as enabling more detailed analyses for stress and	RESEARCH					distribution is	
	State of the				deformation to be made. The lack of a rational basis for the factors of safety together	AND					unlimited.	
	Art and Future				with the progress made brought about a discussion of changing the concept and the	DEVELOPME					NATO.	
	Outlook				factors involved. The three pilot papers contained in this report address the different	NT NEUILLY-						
					aspects which are envisaged, and show up inconsistencies of the present concept as	SUR-SEINE						
					well as means and methods for possible changes and examples of the outcome. An	(FRANCE)						
					additional paper summarizes what is going on in the field of civil engineering with							
					respect to structural safety.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0420397	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	1/1/1941	U	[A - 01]	This drawing covers the design, fabrication, performance and testing requirements for a type of equipment designated Ejection Seat and Survival System. The specified ejection seat and survival system shall provide for pilot escape and survival from the Dyna-Soar glider in instances when satisfactory landing site cannot be reached or when other conditions make an attempted glider landing impractical. The upward ejection seat and rail assembly for the Dyna- Soar vehicle shall be patterned after existing state-of-the-art ejection seats. Size requirements for the pilot are based on a 5th to 75th percentile man, (maximum) fully dressed in a full pressure - body restraint suit system. A qualified Air Force back type parachute and a seat type rescue and survival kit shall be provided. Ejection sequencing shall be accomplished by actuating a two handed ejection control located on the front edge of the seat bucket between the pilot's legs. After ejection, automatic seat/man separation shall be provided, with automatic parachute deployment at 14,000 feet or less.	BOEING CO SEATTLE WA	Not Available	35	[81205]	[USAF]	Not Available	Not Available
ADA951932	History of the Aeronautical Systems Division, July- December 1963. Volume III. Termination of the X-20A Dyna-Soar	1/1/1963	U	[A - 01]	Not Available	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Geiger, Clarence J.]	55	[ASD-TR-64-51-3]	[ASD]	Approved for public release; distribution is unlimited.	Final rept. Jul- Dec 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA258378	Exploration of	3/1/1992	U	[A - 01]	Man in space has been the "center of gravity" of the U.S. space program ever since	AIR WAR	[Hansen,	36	Not Available	[AWC]	Approved for	Research
	the Utility of				NASA astronaut Alan B. Shepard, Jr. became the first American in space 5 May 1961.	COLL	Daniel L.]				public	rept.
	Military Man				In contrast, U.S. military man in space has not enjoyed the same prominence over the	MAXWELL					release;	
	in Space in the				last 30 years. The future of military man in space, if any, is ultimately dependent on	AFB AL					distribution is	
	Year 2025				the nature of military operations in space. The intent of this research is to show that						unlimited.	
					there are compelling reasons for a military manned presence in space projected to							
					the year 2025. To credibly argue the case for military manned systems, it would be							
					wise to first review the circumstances and events leading to the present state of							
					military manned presence in space and military space doctrine. Second, a review of							
					current military space doctrine will reveal a solid foundation with a clear vision of the							
					future and yet show there are specific requirements that cannot be met by existing							
					space forces. The argument of man vs. machine or manned systems vs. unmanned							
					systems will be investigated to determine what type of systems are best utilized in							
					space. A discussion of the reasons behind DoD's present mindset against using							
					manned systems will reveal that there are no longer any logical reasons not to deploy							
					manned systems, and it will be submitted that the unfulfilled doctrinal requirements							
					should logically be completed by manned systems. Present Soviet space doctrine and							
					military use of space will be reviewed for comparison with U.S. space policy,							
					specifically focusing on the manned aspects of their programs. Finally,							
					recommendations are subsequently proposed for the best utilization of military man							
					in space to meet the warfighting requirements envisioned in 21st century space.							
					1							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0261738	Study of Liquid Oxygen Contamination	10/1/1960	U	[A - 01]	An investigation of hydrocarbon film ignition was started. Hexadecane was deposited on films of different thicknesses upon the inner wall of a section of 1-in. stainless steel pipe. Ignition was attempted with an electric spark and duPont electric match. The spark method proved more favorable. Tentative results from these first series of tests point to a safe upper limit for hydrocarbon film thickness greater than the 4000 micrograms/sq ft. A program was initiated for determining the filtration characteristics of solid CO2 from liquid oxygen. A system of liquefaction, filtration, and analysis of LOX was set up and test runs were started. The data show an apparent effect of the Reynolds Number (effectively - liquid velocity) of the liquid at the surface of the filtering medium. The concentration of the CO2 in the filtrate remains in the filtrate. This amount, approximately the solubility limit, will precipitate out of solution as the LOX is handled further or vaporized while in storage.	AIR PRODUCTS AND CHEMICALS INC ALLENTOWN PA	[Foster, R. H.,Vangeld er, W.,Kehat, E.]	46	[API-03-9-2881]	[AFFTC]	Approved for public release; distribution is unlimited.	Progress rept.
AD0840550	DESIGN CRITERIA FOR THE PREDICTION AND PREVENTION OF PANEL FLUTTER. VOLUME 2. BACKGROUND AND REVIEW OF STATE OF THE ART	8/1/1968	U	[A - 01]	This report presents the results of investigations to determine the state-of-the-art in panel design and to provide the background data for the criteria that are given in Volume I. The investigations included a thorough literature search and review as well as surveys of personnel and facilities having made recent contributions in the field. In addition, supplementary analyses are described that were required in some areas to complete the criteria presentation. A comprehensive bibliography is appended to this volume.	MCDONNELL CO ST LOUIS MO STRUCTURAL DYNAMICS DEPT	[Lemley, Clark E.]	117	[AFFDL-TR-67- 140-VOL-2]	[TR-67-140-VOL- 2,AFFDL]	Not Available	Final rept. Aug 1966- Nov 1967

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA391761	Securing the Heavens: A Perspective on Space Control	6/1/1999	D	[A - 01]	This study analyzes various ways in which the United States might best gain and maintain control of outer space. Ultimately, a strategic framework is proposed that offers improved awareness regarding the constraints, strengths, weaknesses, synergies and implications of candidate space control strategies. It accomplishes this by reviewing the milestone events associated with the last forty-plus years of space control history, assessing current trends and their inherent dilemmas, as well as cataloging the various means or methods of achieving space control. With these insights, a strategic framework is described that allows the strategist to better develop space control strategies at any level strategic, operational or tactical. The topic is timely given the nation's mandate to the US military to guarantee the ability to gain and maintain control of space in order to better shape the strategic environment and respond to any form of conflict. This mandate is especially challenging since the task holding the "high ground" of space must be accomplished without the benefit of weapons operating in the contested medium space. Clearly, this is counter to the traditional manner by which militaries typically prepare, deploy and employ force to achieve superiority in a given medium of war. Given this dichotomy the recognized importance of space in the current strategic environment with the limitations of a non-weaponized medium the study is clearly relevant to the ongoing space control debate.	AIR UNIV MAXWELL AFB AL	[Wilson, Ed]	118	Not Available	[USAF]	Not Available	Master's thesis
ADA640762	United States Air Force Statistical Digest, Fiscal Year 1964, Nineteenth Edition	9/30/1964	U	[A - 01]	Contents of the Digest. It contains summaries of Air Force statistics on. forces, operations, materiel, personnel, training, medical services, finance, security and law enforcement, facilities, transportation, Military Assistance Program (MAP), and related studies and historical events. Sources of Material. Most of the data for the Digest are obtained from the USAF worldwide statistical reporting system; the remainder, from Air Staff offices, USAF Historical Division Liaison Office, and major air commands (MAC).	COMPTROLLE R OF THE AIR FORCE WASHINGTO N DC	Not Available	476	[SSU-23]	[USAF]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0647197	RESEARCH AND DEVELOPMEN T OF EXTRAVEHICU LAR PROTECTIVE ASSEMBLY	10/1/1966	U	[A - 01,23]	A prototype extravehicular pressure suit assembly was designed and fabricated for use in earth and lunar environments. Conditions of space environment, preliminary design concepts, laboratory evaluations of materials, the intermediate model configuration, and the final suit assembly are described in detail. This assembly consists of special underwear, liner ventilation system, gas container, restraint layer and cover, insulation, micrometeorite protection, an outer reflective layer, and a life support system. The life support system is a liquid oxygen, semi-closed, recirculating- type backpack. The use of new material distinguishes this assembly from current pressure suits. Recommendations for further research and development are included.	CLARK (DAVID) CO INC WORCESTER MA	[Osborne, Norman H.,Rock, Lee C.]	74	[AMRL-TR-66- 143]	[TR-66-143,AMRL]	Availability: Document partially illegible.	Final rept., 2 Jul 1962-30 Apr 1964
ADA354508	USSR Report, Military Affairs, Military History Journal, No. 10, October 1984	2/12/1985	U	[A - 01]	Not Available	JOINT PUBLICATION S RESEARCH SERVICE ARLINGTON VA	Not Available	51	[JPRS-UMA-85- 011]	[XD]	Not Available	Not Available
AD0624668	ELECTRICAL POWER SYSTEMS FOR THE MANNED ORBITING LABORATORY	10/1/1965	U	[A - 01]	This paper is a detailed design study of possible electrical power systems for the Air Force's Manned Orbiting Laboratory. The mission requirements and details are reviewed to the extent that they are known in the open literature and a set of power requirements is derived. On the basis of reliability, availability, and weight considerations, only solar cells, fuel cells, secondary batteries and combinations thereof are selected for detailed analysis. For the 30 day mission it is concluded that if no experiments are required during the shadow protion of the orbit, the integrated battery/solar cell system is superior by a large margin. If experiments are required in the shadow period, it is found that either the fuel cell system or the battery/solar cell system may be optimum depending on the magnitude and type of power required. It is also found that for a 60 day mission only the battery/solar cell system can be seriously considered. The analysis of the three power systems in support of the design study is developed step by step and may be used as a detailed guide for analyzing the characteristics of these systems for other missions.	PRINCETON UNIV NJ	[Anderberg , Michael R.]	184	Not Available	[USAF]	Approved for public release; distribution is unlimited.	Master's thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA588327	Ideas, Concepts, Doctrine: Basic Thinking in the United States Air Force, 1961- 1984. Volume 2	12/1/1989	U	[A - 01]	This history continues the story of United States Air Force ideas, concepts, and doctrine from the watershed of massive retaliation/flexible response that was occasioned in 1960. The first three chapters of this volume are in effect reprinted from the 1974 edition of Ideas, Concepts, Doctrine, and the following chapters have been added to bring this never-ending story up to 1984.	AIR UNIV MAXWELL AFB AL	[Futrell, Robert F.]	805	Not Available	[AU]	Approved for public release; distribution is unlimited.	Monograph
AD0756854	Aerodynamic Stability and Control, Data, Model 844- 2035	2/14/1972	U	[A - 01,23]	The aerodynamic stability and control characteristics of the 844-2035 Dyna Soar glider are presented. These data are based on wind tunnel tests, where data are available. Where not available, theoretical estimates have been made for the vehicle characteristics. This is the interim glider configurations. Some vehicle characteristics peculiar to this configuration are not satisfactory and will be modified for the final configuration. The data presented will be revised as additional wind tunnel data are received and better estimates of the vehicle characteristics are made.	BOEING CO SEATTLE WA	Not Available	197	[D2-8174]	[USAF]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0402286	THE MILITARY ROLE IN SPACE A SUMMARY OF OFFICIAL, PUBLIC JUSTIFICATIO NS	8/1/1962	U	[A - 01]	Not Available	RAND CORP SANTA MONICA CA	[Puckett, Robert H.]	30	Not Available	[AFRDC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA517570	ExFiT Flight Design and Structural Modeling for FalconLAUNC H VIII Sounding Rocket	3/1/2010	U	[A - 01]	This research effort furthers the Air Force's study of reusable launch vehicles and hypersonic airfoils by conducting a hypersonic flight test using the US Air Force Academy's Falcon LAUNCH VIII sounding rocket. In this study, two experimental fin tips were designed and attached to the sounding rocket in place of two stabilizer fins in order to collect data throughout the rocket's hypersonic flight profile. The desire to research, study, and test experimental fin tips was driven by the Air Force Research Laboratory's Future responsive Access to Space Technologies (FAST) program and their desire to include vertical stabilizers on the wing tips of reusable launch vehicles (RLVs). In this research study, finite element models of the experimental fin tips were developed and used to predict the flight data collected by the strain and temperature gages attached to the test specimen. The results of these flight prediction tests showed that the test specimen will undergo the greatest deflection and strain during the acceleration of the rocket. Maximum deflection and strain gage readings were obtained at a speed of Mach 2.5 at an altitude of 9k feet. Ultimately, the payload will undergo a maximum deflection of 0.6 inches at the fin tip and a maximum strain gage reading of 0.00122 on the main wing section of the payload.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH GRADUATE SCHOOL OF ENGINEERING AND MANAGEME NT	[Vinacco, Michael J.]	114	[AFIT/GAE/ENY/1 0-M27]	[AFRL]	Approved for public release; distribution is unlimited.	Master's thesis
AD0418545	PRIMARY STRUCTURE DEVELOPMEN TLT5-652 SHEAR WEB AND PANEL TESTS	9/17/1963	U	[A - 01]	Tests were performed to determine the effects of thermal gradients on ultimate shear strengths of shear webs and determine the effects of different types of loading on shear webs and panels. The specimens were tested under two different types of loading and at room and elevated temperatures. The conditions simulated Dyna-Soar flight conditions. The test specimen configurations, instrumentation, test plans, conditions and test results are detailed in this document section. Test readings have been included in this report in the form of computer print-out data and hand written data. This data includes temperature, deflection, load and strain readings.	BOEING CO SEATTLE WA	[Olson, J. L.]	335	[D2-8008-1]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0291685	HISTORY AND PROGRESS OF AFCRL FOR THE PERIOD JANUARY 1961-JUNE 1962	10/1/1962	U	[A - 01]	Not Available	AIR FORCE CAMBRIDGE RESEARCH LABS HANSCOM AFB MA	Not Available	218	[AFCRL-62-714]	[AFCRL]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		-	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA605836	An Air Force History of Space Activities, 1945-1959	8/1/1964		[A - 01]	Covering the efforts of the United States from 1945 to September 1959 to wrestle with the unknown ramifications of space, this history includes both the civilian and military activities. An Air Force History of Space Activities presents a more detailed treatment of information published in 1960 under the title of Threshold of Space, 1945-1959. Other monographs on this subject include The Air Force in Space, 1959-1960, and (in draft) a sequel for fiscal year 1961. The author of this history begins with the work of the early pioneers in rocketry, the first satellite feasibility studies by the military, and the relationship of the ballistic missile to the space vehicle. He reviews the Russian and U.S. space programs between 1945 and 1957, during which efforts were made to create space law and the United States chose to pursue a space-for-peace policy. The conservatism of policy makers raised obstacles, but there were space projects, some of them under the Air Force. After the shock of Sputnik I, the reshaping of policy resulted in the establishment of ARPA in the Department of Defense and NASA as the civilian space agency. The authors tells of ARPA's supremacy over the military services in 1958; its loss of control to NASA in October 1958; NASA's activities from then until July 1959; the position of the Air Force after losing out to both ARPA and NASA; and the Air Force's determination to cooperate with NASA, through research, development, and the use of its facilities. Within the DoD in 1959, authority for space research and development was transferred from ARPA to DDR&E, interservice tension mounted, the Air Force struggled to regain lost projects and objected to Navy's appeal for a military space command, and the tide turned for the Air Force when the Secretary of Defense decided in September to give to it the responsibility for the development and launching of all DoD space boosters and for management of Sentry, Midas, and Discoverer.	DEPARTMENT OF THE AIR FORCE WASHINGTO N DC HISTORICAL DIV LIAISON OFFICE	[Bowen, Lee]	237	Not Available	[USAF/HDLNO]	Approved for public release; distribution is unlimited.	Not Available
AD0603356	STRESS ANALYSIS OF THE EXTERNAL FRONT WINDOW OF THE X-20A (DYNA-SOAR),	6/1/1964	U	[A - 01]	The structure of the external front window of the X-20A is analyzed. A sophisticated matrix method of analysis, rather than a classical analytic method, was used to determine the behavior of a window of the X-20A re-entry vehicle under loads and temperatures. A computer solution provides results that can be used for future developments of re-entry vehicles and reveals areas that should be given further study. (Author)	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OHIO	[JOHNSON, Verner J.]	44	[SEG-TDR64 16]	[TDR64 16]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0268090	STUDY OF INSTRUMENT ATION AND TECHNIQUES FOR MONITORING VEHICLE AND EQUIPMENT ENVIRONMEN TS AT HIGH ALTITUDE. INSTRUMENT ATION AND MONITORING TECHNIQUES	6/1/1960	U	[A - 01]	Instrumentation techniques are presented which are available within the state-of-the- art; an instrumentation system is proposed for the monitoring of high-altitude environments encountered by typical vehicles. The high altitude environmental effects on typical vehicles and equipment are summarized. The present airborne- instrumentation state-of-the-art is presented for measuring temperature, pressure, strain, vibration, acceleration, radiation, meteorite detection, and acoustic noise. A feasible instrumentation system is discussed for monitoring these deleterious environments. (Author)	RADIO CORP OF AMERICA CAMDEN NJ	[Wacholde r, B. V.,Fayer, E.]	94	[WADC-TN-59- 307-VOL-3]	[TN-59-307-VOL- 3,WADC]	Approved for public release; distribution is unlimited.	Technical note
AD0603714	A RE-ENTRY VEHICLE SIMULATION DESIGNED FOR THE STUDY OF GROUND SYSTEM REQUIREMEN TS	7/1/1964	U	[A - 01,23]	A computer simulation of re-entry vehicle trajectories has been developed as an aid in determining the requirements of supporting ground-based electronic systems. This report describes the mathematical model used in the simulation and discusses, with the aid of examples, the usefulness of the output data in the preliminary design of tracking and communication networks.	MITRE CORP BEDFORD MA	[Plender, P. J.]	73	[MITRE-TM- 03973,ESD-TDR- 64-135]	[TDR-64-135,ESD]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA324034	The Evolution	4/18/1997	U	[A - 01]	Between Sputnik's launching in October 1957 and the lunar landing in July 1969	AIR FORCE	[Erickson,	669	[AFIT-97-006D]	[AFIT]	Not Available	Doctoral
	of the NASA-				America sponsored five human spaceflight projects. NASA's Mercury, Gemini, and	INST OF TECH	Mark A.]					thesis,
	DoD				Apollo were well publicized and to varying degrees Presidents Dwight D. Eisenhower,	WRIGHT-						
	Relationship				John F. Kennedy, and Lyndon B. Johnson used them as tools for garnering	PATTERSON						
	from Sputnik				international prestige in the cold war competition with the Soviet Union. However,	AFB OH						
	to the Lunar				Dynasoar and the Manned Orbiting Laboratory (MOL) of the DoD were largely							
	Landing.				classified and fundamentally oriented toward the military mission of reconnaissance.							
					This study examines the NASA-DoD relationship with a special emphasis on these two							
					sets of projects by asking three questions. First, what did each president believe							
					about using space exploration as a cold war competitive tool? Eisenhower was not at							
					all keen on such a construct: he did not believe the US should race to the moon in							
					search of prestige. Kennedy did and reoriented American space policy toward the							
					moon. Johnson continued this lunar landing goal but refused to expand American							
					space policy beyond it as he grappled with the demands of Vietnam and the Great							
					Society. Second, what was the institutional relationship between NASA and the DoD?							
					This relationship was a complex one involving simultaneous support, coordination,							
					and rivalry under all three presidents. However, over the course of twelve years							
					NASA achieved greater independence while lessening its reliance on the DoD.							
ADA390204	Quality	3/8/2001	U	[A - 01]	This thesis identifies useful tools and techniques available to aid the Air Force	AIR FORCE	[Galbreath,	111	[AFIT/GSO/ENY/	[AFRL]	Not Available	Thesis Mar
	Initiatives in				development of a reusable launch vehicle (RLV). These tools are identified by	INST OF TECH	Charles S.]		01M-03]			2000-Mar
	the Air Force				comparing traits found within the Lean Aerospace Initiative, Six Sigma and systems	WRIGHT-						2001
	Development				engineering. While identified specifically for the RLV effort, these tools and	PATTERSONA						
	of Reusable				techniques will be of use to many development programs. Historical perspectives of	FB OH						
	Launch				both RLV development efforts within the Air Force and origins of modern quality	SCHOOL OF						
	Vehicles				teachings are provided to establish a common foundation of knowledge, upon which,	ENGINEERING						
					further analysis can be conducted. This thesis, also, summarizes the current RLV							
					effort within the Air Force and NASA. With the tool-set identified and the RLV effort							
					enumerated, the tool-set and RLV effort are matched to determine the current level							
					of integration. More importantly, the tools-set serves as the basis to form specific							
					recommendations to aid the Air Force KLV effort.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0274053	A SURVEY OF BIOASTRONA UTICS 1961- 1962 RESOURCES FOR RESEARCH AND DEVELOPMEN T	2/1/1962	U	[A - 01]	Foremost among the questions to be answered by future exploration of space are those concerned with bioastronautics. A research and development program for manned space flight during the next two decades will serve both to establish human productivity in space-based systems and to stimulate the advancement of concepts of military action for exploiting human capabilities. Information and ideas which must be considered in the formulation of a long range program aimed at manned exploration and use of outer space are discussed.	CORNELL AERONAUTIC AL LAB INC BUFFALO NY	[WHITE, WILLIAM J.]	66	[AFSC-TDR-62-1]	[TDR-62-1,AFSC]	Approved for public release; distribution is unlimited.	Technical documentary rept.
ADA111996	Dynamic Seals for Advanced Hydraulic Systems	8/1/1981	U	[A - 01]	The purpose of this program was to identify rod seals and scrapers which would give long service life in fly-by-wire (FBW) flight control system actuators. This project determined a duty cycle spectrum for FBW flight control actuators. Realistic testing of rod seals and scrapers in a -65 to +275 F, 3000 psi, MIL-H-5606 fluid system identified a number of rod seals and scrapers which gave improved performance when compared to a baseline rod seal of MS28774 backups/M83461/1 0-ring or a MS28776M scraper. The rod seal tests evaluated backup rings, single stage, and two stage rod seals of many configurations. Scrapers were tested in an AC coarse test dust environment at 170 to 190 deg F. Principle conclusions for rod seals are that two stage unvented rod seals offer a significant reduction in leakage when compared to any single stage rod seal. With the use of a high performance backup ring, 0-rings are capable of withstanding the equivalent of 5 years service life in FBW mechanical duty cycles. Single stage rod seals with rubber in contact with the rod leak much less than those with plastic in contact with the rod. Four different two stage rod seal systems were identified which gave no measurable external leakage in tests. Five plastic and one bronze scraper were tested which allowed less transmission of contaminant to the rod seal than the MS28776M baseline. (Author)	VOUGHT CORP DALLAS TX	[Olsen, Robert B.]	307	[AFWAL-TR-81- 2066]	[TR-81- 2066,AFWAL]	Approved for public release; distribution unlimited.	Final rept. 1 Jul 78-31 Mar 81

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0431032	GROUND SUPPORT SYSTEM SPECIFICATIO N (TEST OPERATION PLAN) VOLUME I, PART II. MAINTENANC E ANALYSIS SPECIFICATIO N (TEST OPERATION PLAN),	9/20/1961	U	[A - 01]	This Maintenance Analysis Specification (Test Operation Plan), Volume I, Part II of the Dyna Soar (Step I) Program, "Ground Support System Specification (Test Operation Plan)", presents the maintenance requirements of the Dyna Soar (Step I) Primary Guidance Subsystem (PGS). The operational support requirements of the PGS are presented in the Operational Ground Support Equipment System Specification (Test Operation Plan) (OGSESS), Volume I, Part I of this document. The maintenance requirements presented are based on the support needs of the Primary Guidance Subsystem (PGS) and the operational support equipment. The elements of the PGS shall include the Inertial Guidance Subsystem (IGS), the Secondary Attitude Reference Subsystem (SARS), and the Guidance Malfunction Detection Subsystem (GMDS). The Primary Guidance Subsystem Associate Contractor (PGSAC) will furnish all the elements of the PGS and the Associated Aerospace Ground Equipment (AGE) (Author)	HONEYWELL INC ST PETERSBURG FLA	[Rohlfs,I. G.]	209	Not Available	Not Available	Not Available	Not Available
AD0271033	ANNOTATED BIBLIOGRAPH Y OF LUNAR PROPERTIES, GEOLOGY, VEHICLES AND BASES. PART 2. VEHICLES, TRAJECTORIES , AND LANDINGS	12/1/1961	U	[A - 01,23]	Part II of this three part lunar bibliography is concerned with manned and unmanned lunar probes, their purpose, trajectories, instrumentation, ground support, and landing site selection. Manned vehicle equipment, communications, number of crew, crew requirements, and landings are also covered, as are manned and unmanned space stations. Part I dealt with the physical properties, geology, volcanism, selenomorphology, mineralogy and maps of the moon. Part III will cover fixed and mobile lunar bases, construction problems, lunar surface vehicles, and the methods and feasibility of human habitation. Arctic exploration, including base construction, surface vehicles, clothing and equipment, and environmental effects on man is included because of its applicability to lunar bases and exploration.	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[BELTRAN, A. A.,GOLDM ANN, J. B.,GRAZIA NO, E. E.]	137	[SB-61-67]	[NASA]	Availability: Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0655383	APPLICATION OF GROUND TEST DATA TO REENTRY VEHICLE DESIGN	1/1/1967	U	[A - 01]	Methods and procedures were developed for extrapolating ground-test aerothermodynamic data to flight conditions for four geometric elements. These elements are a sharp unyawed delta wing, deflected control surfaces in compression and expansion, surface roughness elements typified by shallow convex surface waves and rectangular grooves, and a yawed circular cylinder intersecting a sharp flat plate. Graphs and charts are provided for rapid numerical computation of factors to be used in extrapolating the wind-tunnel data for these geometric elements to flight conditions. An evaluation of the simulation capabilities of operational hypersonic ground facilities is also included.	BOEING CO SEATTLE WA	[Thomas, Alfred C.,Perlbach s, Andrew]	139	[AFFDL-TR-66- 229]	[TR-66- 229,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. Jun 1965-Dec 1966
ADA303832	The Rise and Fall of Dyna- Soar: A History of Air Force Hypersonic R&D, 1944 1963.	8/1/1995	U	[A - 01]	After 8 years of gestation and 11 years of cultivation, the framework underlying the Johnson administration's decision to cancel Dyna-Soar, America's only hypersonic boost-glide program, in December 1963 illustrates the ebb and flow of an advanced technology program within the administrative and political context of modem American society. The decision to cancel Dyna-Soar had several significant consequences. Most important, it ended, at least temporarily, the Air Force's opportunity to use hypersonic flight for military missions. The Air Force's inability to persuade Secretary of Defense Robert S. McNamara and other Department of Defense officials of the wisdom of continuing to build and fly such an advanced transatmospheric vehicle represented the single most important reason for the program's cancellation, overshadowing 11 years of evolutionary development. The complex political-economic-administrative relationship between the Eisenhower and Kennedy administrations, the aerospace industry, NASA, and the Air Force in the late 1950s and early 1960s left NASA as the national leader for hypersonic R&D. Dyna-Soar's cancellation marked the collapse of the Air Force's political-economic efforts for a hypersonic boost-glider, illustrating the need for a rapid and clear consensus of purpose, single-minded and politically astute leadership, and the near-term attainment of advanced technology. Once Dyna-Soar was canceled, NASA began to acquire an increasing amount of the Air Force's hypersonic research until its Space Shuttle offered the Air Force another chance for a joint venture equal in scope to Dyna-Soar. However, this time NASA would be the lead organization.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH	[Houchin, II, Franklin]	520	[AFIT-95-016]	[AFIT]	Approved for public release; distribution is unlimited.	Doctoral thesis,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
Number ADA434888	Weight Analysis of Two-Stage-To- Orbit Reusable Launch Vehicles for Military Applications	3/1/2005	U	[A - 01,26]	In response to Department of Defense (DoD) requirements for responsive and low- cost space access, this design study provides an objective empty weight analysis of potential reusable launch vehicle (RLV) configurations. Each two-stage-to-orbit (TSTO) RLV has a fixed payload requirement of 20,000 lbf to low Earth orbit. The propulsion systems considered in this study include pure rocket, pure turbine, rocket- based-combined-cycle (RBCC), and turbine-based-combined-cycle (TBCC). The hydrocarbon dual-mode scramjet (DMSJ) engines used in the RBCC and TBCC propulsion systems represent possible applications of the current research being performed in the U.S. Air Force HyTech program. Two sensitivity analyses were then performed on areas of interest directly affecting the propulsion systems in this study, including the effects of orbiter fuel selection, as well as the effects of increasing the turbine installed thrust to weight ratios for the RLVs utilizing afterburning turbine engines. The vertical-takeoff-horizontal-landing (VTHL) RLVs have an empty weight advantage over the horizontal-takeoff-horizontal-landing (HTHL) RLVs. The orbiter propellant switch has either negligible or no empty weight savings for the VTHL RLVs, while it leads to substantial empty weight savings for the HTHL RLVs. For the HTHL RLVs, increasing the turbine installed thrust to weight ratio causes a significant decrease in empty weight.	Author AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEME NT	Authors [Caldwell, Richard A.]	119	Numbers [AFIT/GA/ENY/05- M02]	[AFIT]	Statement Approved for public release; distribution is unlimited., Availability: This document is not available from DTIC in microfiche.	Note Master's thesis
AD0325217	PYE WACKET. FEASIBILITY TEST VEHICLE STUDY. (CONFIGURATI ON AND AUTOPILOT/C ONTROL)	7/1/1961	U	[A - 01]	The results are given of a series of studies conducted to form the basis for the design of PYE WACKET Feasibility Test Vehicles. Detailed studies (including wind tunnel tests), were conducted in the areas of aerodynamics, control sytem structures and test vehicle performance. All studies were based on sea level flight environment. The complete task is reported in three volumes: Volume I Summary, Volume II Aerodynamics, and Volume III Configuration and Autopilot/Control. (Author)	GENERAL DYNAMICS CORP POMONA CA POMONADIV	Not Available	282	[CR-341-377- 001,ASD-TR-61- 34-V3]	[TR-61-34- V3,ASD]	Approved for public release; Distribution unlimited.	Not Available
ADB183429	The National Aeronautics and Space Administratio n Semiannual Report to the Congress	3/31/1959	U	[A - 01,23]	Not Available	NATIONAL AERONAUTIC S AND SPACE ADMINISTRA TION WASHINGTO N DC	Not Available	108	Not Available	[NASA]	Approved for public release; distribution is unlimited. Document partially illegible.	Rept. for 1 Oct 1958-31 Mar 1959

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA202644	National Space Policy	5/1/1988	U	[A - 01]	National space policy forms the foundation for decisions and direction of the United States national space program. This review begins with the Eisenhower era and the launching of Sputnik 1, considered by most as the the start of the space race with the Soviet Union for national space preeminence. Succeeding administrations are discussed to provide the historical setting affecting the actions of presidents, leaders within NASA, the DOD, and Congress as well as other players in the national space arena. This review analyzes the latest national space policy, established by President Reagan in February, 1988. Finally, specific space development programs are offered as topics which will demand the attention of future administrations.	AIR WAR COLL MAXWELL AFB AL	[Sutton, Ernest B.]	93	Not Available	[AU]	Approved for public release; distribution is unlimited.	Research rept.
ADA302634	The Hypersonic Revolution. Volume 2. From Scramjet to the National Aero- Space Plane	8/1/1995	U	[A - 01,23]	The hypersonic revolution has been a particularly American one, borne of the national pursuit of transonic and supersonic flight technology. True, it does have both domestic and international dimensions, in the prophecy of Robert Goddard, Hermann Oberth, and Konstantin Tsiolkovskiy at the beginning of the twentieth century, and in the prescient (if impractical) studies of Eugen Sanger and Irene Bredt (later Irene Sanger-Bredt) near mid-century. But if its inspiration was some- times international in flavor, its execution was Americanfrom the early pre-X-15 studies of the 1950's through the pioneering missions of Columbia in 1981. Primarily, the hypersonic revolution grew out of the traditional federal-industrial partnership that had benefitted American aviation since the First World War. It germinated and flourished amidst the laboratories of the Air Force, Navy, the National Advisory Committee for Aeronautics (NACA), and its successor, the National Aeronautics and Space Administration (NASA), and the major aerospace manufacturers. Not merely an aerodynamic revolution, the hypersonic revolutionlike the supersonic breakthrough and the drive for the "modern", airplane before itinvolved the creative integration and exploitation of diverse technologies.	AERONAUTIC AL SYSTEMS CENTER WRIGHT- PATTERSON AFB OH	[Hallion, Richard P.,Becker, John,Vitalli , John,Youn g, James]	674	[ASC-TR-95- 5010]	[ASC/WPAFB]	Approved for public release; distribution is unlimited. Document partially illegible.	Final rept., 1964-1986
ADA950166	Chronology of Early Air Force Man-in-Space Activity, 1955- 1960	1/1/1965	U	[A - 01]	Not Available	AIR FORCE SYSTEMS COMMAND WASHINGTO N DC	Not Available	48	[AFSC-PUB-65-21- 1]	[AFSC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA386352	Dead on Arrival? The Development of the Aerospace Concept, 1944- 58	11/1/2000	U	[A - 01]	First impressions are lasting impressions. In late 1958 Air Force Chief of Staff Thomas D. White first evoked the term aerospace to describe to the nation how America's airmen perceived their operational environment. Air and space are not two separate media to be divided by a line and to be readily separated into two distinct categories; they are in truth a single indivisible field of operations." Unfortunately, also by the end of 1958, organizational architecture, national legislation, and national policy were in place to indicate that an alternative paradigm would take precedence over that of the Air Force. This study chronologically traces the historical development of the aerospace concept, from its initial inception in 1944 as it was embodied in the farreaching vision of Gen Henry H. "Hap"" Arnold, until its public appearance in 1958. This study also uncovers reasons why airmen came to see their primary area of responsibility differently than the rest of the nation and why their aerospace concept failed to win bureaucratic support. By tracing the aerospace concept's technological and intellectual development against a contextual backdrop of geopolitics, national security strategy, national space policy, interservice competition, and internal tensions within the Air Force, this paper offers historical lessons learned for today's planners seeking to move the Air Force toward an aerospace force.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIRPOWER STUDIES	[Rothstein, Stephen M.]	94	Not Available	[AU-SAAS]	Not Available	Not Available
ADA606606	The Air Force in Space, Fiscal Year 1962	6/1/1966	U	[A - 01]	The Air Force in Space, Fiscal Year 1962, discusses the highlights of USAF policy and program planning to obtain support from the administration, Congress, and the Secretary of Defense for a larger role in national space activities. Also included are significant actions taken and milestones reached in individual projects sponsored or supported by the Air Force during the period between 1 July 1961 and 30 June 1962. This historical monograph is the fifth in a series on USAF space activities prepared by the USAF Historical Division Liaison Office.	DEPARTMENT OF THE AIR FORCE WASHINGTO N DC HISTORICAL DIV LIAISON OFFICE	[Berger, Carl]	138	Not Available	[USAF/HDLNO]	Approved for public release; distribution is unlimited.	Monograph
AD0756856	Electromagnet ic Interference Design and Test Criteria, Dyna-Soar (620A)	12/16/1960	U	[A - 01,23]	The report sets forth the design criteria and interference control plans to be employed in assuring elimination or satisfactory suppression of radio interference in the Dyna Soar System.	BOEING CO SEATTLE WA	[Wisner, R. M.]	17	[D2-7178]	[USAF]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA391798	Toward an Air and Space	6/1/1998	U	[A - 01]	The Air Force and Air Force Space Command need an official implementation plan to integrate space into air operations or it might founder in this third attempt to	AIR UNIV MAXWELL	[Jelonek, Mark P.]	107	Not Available	[AU-SAAS]	Not Available	Master's thesis
	Force: Can We Get There From Here? Naval Aviation and the Implications for Space Power				transition to an air and space force. The historical precedent established during the integration of aviation into the U.S. Navy from 1921 to 1941 suggests five policy areas essential to successful integration. The Air Force has initiated several excellent programs to increase the knowledge and understanding of space operations in the flying community by incorporating space capabilities and products into air operations, Professional Military Education, and field exercises. Including space power in war games is also promoting understanding and creating an environment for innovation. The Air Force is on the verge of a bitter debate over the funding priorities between combat aircraft; intelligence, surveillance, and reconnaissance aircraft; unmanned aerial vehicles; and space operations officers have earned the highest ranks in the Air Force, but they are under-represented in command positions. Providing opportunities for space operators to experience air operations will cultivate air and space officers to employ the air and space force. The Air Force can benefit from this historical analogy by recognizing integration is more than the acquisition of weapons and combat capabilities. Integration relies on a powerful human component which will ultimately determine the success or failure of the endeavor.	AFB AL SCHOOL OF ADVANCED AIRPOWER STUDIES						
ADA242768	Evolution and Development of Hypersonic Configurations 1958-1990	9/1/1991	U	[A - 01]	This report traces the activities of the Flight Dynamics Laboratory in hypersonic configuration research. Early efforts concentrated on simple configurations and progressed to more sophisticated lifting body point designs as analysis and design techniques became available. Several flight technology demonstration programs pioneered the exploitation of this new challenging flight regime and provided an extensive data base for the development of the Space Shuttle. Hypersonic airbreathing cruise vehicles are shown to be dominated by inlet and nozzles integration with the airframe. A list of lessons learned is compiled to provide a useful reference for the designer in the early formulation of configurations concepts.	WRIGHT LAB WRIGHT- PATTERSON AFB OH	[Draper, Alfred C.,Sieron, Thomas R.]	128	[WL-TR-91-3067]	[WL*]	Approved for public release; distribution is unlimited.	Final rept. Jul 1990-Mar 1991

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA067250	The In-House Management Approach: An Analysis of the Subsonic Cruise Armed Decoy Program	9/1/1974	U	[A - 01]	The purpose of this report is to examine the management approach utilized by the Subsonic Cruise Armed Decoy (SCAD) Program Office. The reason for such a study is to aid future program managers in adopting their management arrangements. System integration and who accomplishes it is the key to the in- house approach. System integration is performed whenever system engineering is applied and technical direction is given. If the Air Force program office acts as the system integrator, then the management approach is termed in-house. The program office contracted for, managed the development of, and was responsible for the integration of all major subsystems. Multiple contracts were used and an associate contractor arrangement employed. Many innovative management techniques were utilized and several strengths were observed during SCAD's development. Chief among the strengths were the more direct involvement of Air Force personnel in the decision making process and the associated visibility into problem areas. The primary weaknesses of the approach included the lack of qualified personnel to do the integration task and the adoption of a program office organizational structure which was not conductive to system integration. It is concluded that the in-house approach to weapon system acquisition does have merit and should be considered as a viable program management option. For the approach to be effectively used the program office must be adequately staffed with qualified people and organized in such a way as to promote total system integration.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING	[Buckner, Robert W.]	82	[AFIT/GSM/SM/7 4-5]	[AFIT]	Approved for public release; distribution is unlimited.	Master's thesis
ADA386674	Catalog of Air Force Weather Technical Documents 1941-2000	9/1/2000	U	[A - 01]	This catalog lists unclassified technical documents produced by or for the Air Force Weather Agency and its subordinate units from 1941 through 2000. Documents listed include: technical reports, technical notes, data summaries, project reports, special studies, and forecaster memos, along with availability data and ordering instructions.	AIR FORCE I WEATHER TECHNICAL LIBRARY ASHEVILLE NC	Not Available	167	[AFWTL/TC 00/001]	[AFCCC/NC]	Not Available	Catalog

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA421723	Aerospace	7/1/2001	U	[A - 01,26]	Dr. Chun's Aerospace Power in the Twenty-First Century: A Basic Primer is a great	AIR FORCE	[Chun,	352	Not Available	[USAFA]	Availability:	Not Available
	Power in the				start towards understanding the importance of aerospace power and its ability to	ACADEMY	Clayton K.				This	
	Twenty-First				conduct modern warfare. Aerospace power is continually changing because of new	COLORADO	S.]				document is	
	Century: A				technology, threats, and air and space theories. However, many basic principles	SPRINGS CO					not available	
	Basic Primer				about aerospace power have stood the test of time and warfare. This book provides						from DTIC in	
					the reader with many of these time-tested ideas for consideration and reflection.						microfiche.	
					Although Aerospace Power in the Twenty-First Century was written for future							
					officers, individuals desiring a broad overview of aerospace power are invited to read,							
					share, and discuss many of the ideas and thoughts presented here. Officers from							
					other services will find that this introduction to air and space forces will give them a							
					good grasp of aerospace power. More experienced aerospace leaders can use this							
					and that might affect them in the future. Air Force officers will discover that							
					Aerospace Power in the Twenty-First Century is a very timely and reflective resource							
					for their professional libraries.							
ADA355572	Beyond	1/1/1998	U	[A - 01]	Beyond Horizons: A Half Century of Air Force Space Leadership is a study of the	SPACE	[Spires,	418	Not Available	[SPACECOM]	Not Available	Revised
	Horizons: A				United States Air Force in space. Of all the military services, the Air Force has been	COMMAND	David N.]					edition,
	Half Century				preeminently involved for the past fifty years in initiating, developing, and applying	PETERSON						
	of Air Force				the technology of space-based systems in support of the nation's national security.	AFB CO						
	Space				Yet there has been no single-volume overview of the Air Force space story to serve as							
	Leadership.				an introduction and guide for interested readers. In November 1992, a high-level Air							
	Revised				Force Blue Ribbon Pane! on Space, chaired by then Lieutenant General Thomas S.							
	Edition.				Moorman, Jr., commander of Air Force Space Command, concluded there was a							
					specific need to better educate people, both in the service and among the general							
					populace, about the history of Air Force space activities. Beyond Horizons has been							
					written to meet this need.							
AD0336996	DYNA SOAR	2/1/1963	U	[A - 01]	Not Available	BOEING CO	Not	51	[D2-80911]	[AFFDL]	Approved for	Final rept.
	TESTING FOR					SEATTLE WA	Available				public	
	THE BOEING										release;	
	COMPANY										distribution is	
											unlimited.	

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA364451	USSR Report, Military Affairs No. 1801 Aviation and Cosmonautics No. 5, May 1983	9/30/1983	U	[A - 01]	Not Available	JOINT PUBLICATION S RESEARCH SERVICE ARLINGTON VA	Not Available	85	[JPRS-84452]	[FBIS]	Not Available	Not Available
AD0390196	PRELIMINARY DESIGN AND EXPERIMENTA L INVESTIGATIO N OF THE FDL- 5A UNMANNED HIGH L/D SPACECRAFT. PART 5. VEHICLE DESIGN	3/1/1968	U	[A - 01]	A parametric analysis of a broad spectrum of thermostructural concepts is presented. A complete structural concept for the 35-foot entry test vehicle using the FDL-5 configuration is defined. Subsystems for the entry test vehicle are selected. A weight breakdown and a weight summary for the test vehicle are presented.	LOCKHEED- CALIFORNIA CO BURBANK	[Plank, P. P.,Sakata, I. F.,Verhaeg h, M.]	138	[LR-21204-PT- 5,LAC- 619519,AFFDL- TR-68-24-PT-5]	[TR-68-24-PT- 5,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. 1 Jul 1966-31 Mar 1968
ADA041740	A Survey of Transition Research at AEDC	7/1/1977	U	[A - 01]	This report presents a survey of experimental research on transition Reynolds numbers conducted in a large number of ground test facilities. Facilities surveyed included primary wind tunnels used for aerodynamic testing at subsonic, transonic, supersonic, and hypersonic conditions. Measurements have been made on cones and planar bodies, flat plates and hollow cylinders. This report traces the work using cones, which has been more extensive. The primary motivation for this research spanning nearly 20 years has been to verify the adequacy of the facilities to simulate flight conditions. This necessarily entailed the study of free-stream disturbances in wind tunnels and the role these disturbances play in altering transition Reynolds number which must be considered when scaling Reynolds-number-sensitive data. Results presented include current experimental efforts as recent as September 1976. In addition to the cited references, a bibliography of relevant publications from AEDC has been included.	ARO INC ARNOLD AFS TN	[Whitfield, Jack D.,Dougher ty, Jr, N. S.]	63	[ARO-PWT-TR-77- 24,AEDC-TR-77- 52]	[TR-77-52,AFSC]	Approved for public release; distribution is unlimited.	Final rept. Jul 1956-Sep 1976

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0421708	THE SEVENTH NAVY SCIENCE SYMPOSIUM: SOLUTION TO NAVY PROBLEMS THROUGH ADVANCED TECHNOLOGY, MAY 14, 15, 16, 1963, U.S. NAVAL AVIATION MEDICAL CENTER, PENSACOLA, FLORIDA. VOLUME 1	5/16/1963	U	[A - 01,23]	Not Available	OFFICE OF NAVAL RESEARCH ARLINGTON VA	Not Available	341	[ONR-16-VOL-1]	[16-VOL-1,ONR]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
ADA282429	A Survey of Commercially Available Expendable Heavy Lift Launch Vehicles.	6/1/1994	U	[A - 01]	This thesis examines the launch vehicle options available to place a heavy payload, 10 tons, into a low-earth-orbit. The study provides the current status of the space launch vehicle market for heavy lift launchers. The following launchers are looked at in detail: Titan 3, Proton, Energia, Long March 3, Ariane 5, and the H-2. Vehicle design history and launch record are examined. Each launcher is then examined and broken down by stages, including the payload sections. A typical launch sequence is included for each vehicle. Finally, the cost of the various launchers is examined. Conclusions regarding the future need of heavy lift launch vehicles and a look at the current political environment is made.	NAVAL POSTGRADUA TE SCHOOL MONTEREY CA	[Mihal, Joseph J., Jr]	115	Not Available	[NPS]	Approved for public release; distribution is unlimited.	Master's thesis,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0297374	DISTRIBUTED EQUIVALENTS OF BRUNE SECTIONS	9/28/1962	U	[A - 01]	Not Available	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[MATSUM OTO, AKIO]	49	[PIBMRI-1038- 62,RADC-TDR-62 582]	[TDR-62- 582,RADC]	Approved for public release; distribution is unlimited.	Not Available
AD0615442	STUDIES ON VERTEBRAL INJURIES SUSTAINED DURING AIRCREW EJECTION	5/1/1965	U	[A - 01]	Available world literature on ejection-related vertebral injuries in aviators was thoroughly surveyed and is presented as an annotated bibliography in Appendix A. Basic findings of some of the principal investigators into vertebral injury are summarized. Parameters associated with the pilot, aircraft, and ejection-seat system are evaluated in the light of their trends and relative significance in contributing to ejection-caused vertebral injury. These studies led to the development of a proposed research design to determine the dynamic strength of isolated vertebrae. Preliminary research objectives are outlined. The experimental procedure and analysis techniques are set forth. A plan for sequencing and integrating the research operations is diagramed.	TECHNOLOGY INC DAYTON OH	[Higgins, Lawrence S.,Enfield, Stuart A.,Marshall , Robert J.]	150	[TI-65-041]	[ONR]	Not Available	Final rept.
AD0268018	WIND VARIABILITY AT 150,000 FEET	10/1/1961	U	[A - 01]	The advent of the X-15, Dyna-Soar, and other vehicles operating at very high altitudes require increased familiarity with winds above the normal radiosonde levels. A number of articles have already been published on the subject of high-level circulation patterns. The present report makes use of the available rocketsonde data to determine the accuracy of climatological and persistence forecasts at 150,000 feet. (Author)	AIR WEATHER SERVICE SCOTT AFB ILL	[APPLEMA N,HERBERT S.]	9	[TR160]	Not Available	Not Available	Technical rept.,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		1	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA083686	An Annotated Bibliography on Operator Mental Workload Assessment	3/26/1980	U	[A - 01]	An annotated bibliography on operator mental workload is presented with supporting information. This bibliography is based upon two literature searches, one performed in 1977 in support of a survey and analysis catalog (AD A059 501) and one performed in 1979 as an update. Each literature citation presented contains reference information, an abstract, a numerical workload technique category classification, a numerical operator behavior classification, and a group of word descriptors. Workload methods are divided into 28 specific techniques in four major categories: opinion, spare mental capacity, primary task, and physiological. Applicable operator behaviors are similarly divided into categories. The descriptors associated with each citation designate the general workload classification, the specific workload classification. Over 600 citations are presented. Two indexes are also provided. The first is a workload technique index, and the second is an experimental facility index. It is concluded that periodic updating of the bibliography will be required and that attention should be directed toward computerizing future workload bibliographies. (Author)	SYSTEMETRIC S INC BLACKSBURG VA	[Wierwille, Walter W.,Williges , Beverly H.]	414	[NATC-SY-27R- 80]	[SY-27R-80,NATC]	Not Available	Final rept. Jun-Dec 79
ADA371399	Science & Engineering Symposium Proceedings, 16-19 October. Volume III. Flight Dynamics.	10/19/1978		[A - 01]	The initial co-sponsored Air Force Systems Command/Naval Material Command Science and Engineering Symposium was held at the Naval Amphibious Base, Coronado on 16 - 19 October 1978. The theme of the 1978 Symposium was "Advanced Technologies - Key to Capabilities at Affordable Cost." The objectives of this first joint Navy/Air Force Science and Engineering Symposium were to: Provide a forum for military and civilian laboratory scientific and technical researchers to demonstrate the spectrum and nature of 1978 achievements by their services in the areas of Armament, Human Resources, Avionics, Materials, Basic Research, Propulsion, and Flight Dynamics.	AIR FORCE SYSTEMS COMMAND WASHINGTO N DC	Not Available	377	Not Available	[AFSC]	Not Available	Not Available
AD0425932	EXTERNAL SURFACE PANELS (NON- INSULATED) DEVELOPMEN T - DYNA- SOAR,	7/23/1963	U	[A - 01]	Not Available	BOEING CO SEATTLE WASH	[Schneider, R. D.]	310	[D2 80084 vol. 2]	Not Available	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA096137	Losses to Workers Displaced by Plant Closure or Layoff: A Survey of the Literature,	11/1/1976	U	[A - 01]	Workers who are displaced when a plant closes, or when there is a permanent layoff resulting from reduced demand, usually suffer losses in earnings. These losses are due to unemployment and to wage reductions which reflect more permanent impairment of earnings capacity. It is important to know the long terms effects of job displacement. Many prospective changes in government policy can result in reductions in demand for specific products and lead to some job displacement. This paper reviews seventeen recent studies of the effects of job loss on earnings. They range from case studies of specific plant closures to more broadly based studies of the effects of job loss, in which control groups are used to estimate losses in earnings over a number of years after layoff. Methods of analysis range from simple tabulations to estimation of income determination models based on human capital theory. The losses documented in these studies can be taken to illustrate the magnitude of losses that would result from displacements due to increased import penetration. Some of the studies deal with job losses specifically due to increased import competition, but all are concerned with job losses following declines in demand for domestic production. Whatever the cause of a fall in demand for the products of an industry, increased import penetration, changes in tastes, etc., the skills of workers that are specifically adapted to either the industry or to particular firms within that industry become less valuable.	PUBLIC RESEARCH INST ALEXANDRIA VA	[Holen,Arle ne]	50	[CRC-313]	Not Available	Not Available	Not Available
ADA351790	The Flight Dynamics Laboratory: Evolution of an Engineering Miracle	10/1/1988	U	[A - 01]	THE FLIGHT DYNAMICS LABORATORY (FDL) IS ONE OF THE WORLD'S MOST ADVANCED AIRCRAFT TECHNOLOGY DEVELOPMENT FACILITIES. THIS REPORT EXAMINES THE PAST, PRESENT AND FUTURE OF THE FLIGHT DYNAMICS LABORATORY ACCORDING TO FIVE BROAD TECHNOLOGICAL AREAS: FLIGHT CONTROL, VEHICLE EQUIPMENT OR SUBSYSTEMS, AEROMECHANICS, STRUCTURES, AND DYNAMICS. ADVANCED DEVELOPMENT PROGRAMS CLOSELY IDENTIFIED WITH A PARTICULAR DIVISION ARE INCLUDED IN THE APPROPRIATE CHAPTER, WHILE OPERATIONAL AND TECHNICAL SUPPORT ARE COVERED IN A SEPARATE SECTION.	AIR FORCE WRIGHT AERONAUTIC AL LABS WRIGHT- PATTERSON AFB OH	Not Available	267	[AFWA-TR-85- 3121]	[AFWAL]	Not Available	Final rept. Oct 63-Oct 88

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0432018	CONTROLLED	9/1/1963	U	[A - 01]	A propulsion system utilizing controlled thermonuclear reactions as an energy source	AERONAUTIC	[Cooper,	29	[ASD-TDR-63-	[TDR-63-696,ASD]	Approved for	Not Available
	THERMONUCL				is shown to possess definite advantages over all other propulsion systems in the	AL SYSTEMS	Robert		696]		public	
	EAR				performance of those space missions requiring a high velocity increment. No valid	DIV WRIGHT	F.,Verga,				release;	
	REACTIONS				argument exists which indicates that controlled fusion will not be achieved. In	FIELD OH	Richard L.]				distribution is	
	FOR SPACE				addition, analyses indicate that no insoluble engineering problems would be						unlimited.	
	PROPULSION				associated with the adaption of controlled fusion to the propulsion of a space vehicle.							
					A number of applicable areas of technology are discussed. These areas are either							
					being pursued at the present time or require additional intensive effort. The inherent							
					potential of the application is such that pursuit of this energy source for propulsion							
					cannot be ignored or delayed.							
AD0813281	SPACE	1/16/1967	U	[A - 01]	The report contains a summary of space vehicle guidance and control plus an	REDSTONE	[Langston,	507	[RSIC-611]	[MICOM]	Approved for	State-of-the-
	VEHICLE				extensive bibliography of the subject area. This report is intended to encompass only	SCIENTIFIC	R.]				public	art survey
	NAVIGATION,				the interplanetary portion of the space vehicle flight. Launch vehicle guidance and	INFORMATIO	-				release;	1961-1966
	GUIDANCE,				control is covered in RSIC-494, entitled Methods of Launch Vehicle Control. However,	N CENTER					distribution is	
	AND CONTROL				some fringe information in the area of orbital flight is included in the bibliography	REDSTONE					unlimited.	
					which may be applicable to interplanetary flight.	ARSENAL AL						
Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
-----------	----------------	-------------	--------	--------------	---	------------	--------------	-------	---------------	----------------	-----------------	-------------
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA560470	Rearming for	1/1/2012	U	[A - 01]	In Rearming for the Cold War, the first publication in a multivolume series on the	OFFICE OF	[Converse	783	Not Available	[OSD]	Approved for	Monograph
	the Cold War,				history of the acquisition of major weapon systems by the Department of Defense,	THE	III, Elliott				public	
	1945-1960				author Elliott Converse presents a meticulously researched overview of changes in	SECRETARY	V.]				release;	
	(History of				acquisition policies, organizations, and processes within the United States military	OF DEFENSE					distribution is	
	Acquisition in				establishment during the decade and a half following World War II. Many of the	WASHINGTO					unlimited.	
	the				changes that shaped the nature and course of weapons research and development,	N DC						
	Department of				production, and contracting through the end of the century were instituted between	HISTORICAL						
	Defense.				1945 and 1960; many of the problems that have repeatedly challenged defense	OFFICE						
	Volume 1)				policymakers and acquisition professionals also first surfaced during these years. The							
					volume is organized chronologically, with individual chapters addressing the roles of							
					OSD, the Army, Navy, and Air Force in two distinct periods. The first, roughly							
					coinciding with President Truman's tenure, covers the years from the end of World							
					War II through the end of the Korean War. The second spans the two terms of the							
					Eisenhower presidency from 1953 through early 1961. The volume approaches the							
					subject through discussion of the evolution of acquisition policies, organizations, and							
					processes; the interservice and intraservice political context of acquisition; the							
					relationship between rapidly advancing technology and acquisition; the role of the							
					defense industry in new weapons development; the origins and growth of a							
					specialized acquisition workforce; and acquisition reform. Case studies of individual							
					systems illustrate the various forces influencing weapons programs.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1098567	Jacks of All	6/1/2018	U	[A - 01]	This study examines the question of occupational specialization applied to United	Muir S.	[Snyder,Eri	104	Not Available	Not Available	Approved For	Technical
	Trades or				States Air Force (USAF) space operations. It begins with a historical look at the	Fairchild	с В.]				Public	Report
	Masters of				services approach to specialization illustrating how the USAFs singular space	Research					Release;	
	Some				operations officer career field directly contrasts with the services traditional model	Information						
	Alternatives				for operations, which is more highly differentiated. The paper argues that the space	Center						
	for				operations career fields monolithic structure points to a preference for generalists in	Montgomery						
	Occupational				this area of operations, rather than more narrowly focused tactical experts.	United States						
	Specialization				Acknowledging that a bias toward occupational breadth functioned adequately in an							
	in USAF Space				era in which space was not an actively contested military domain, the paper							
	Operations				examines concerns about operator expertise that arise when considering a future							
					operational space environment likely to rely more on tactical, time-compressed							
					decision-making. The thesis asserts that future operational tasks associated with							
					electronic warfare, orbital combat, and space battle management are areas that may							
					require future specialization in order to achieve needed proficiency levels. It							
					identifies several possible alternatives for career field restructuring, to include a semi-	-						
					formal specialization model and a formalized specialization approach. Maintaining							
					the status quo would require the least investment but would pose the most							
					operational risk over the long term. The semi-formal model would retain some							
					organizational agility and flexibility in the development and assignment of operators							
					but would be more susceptible to disruption as leaders move on or business rule							
					enforcement breaks down over time. The formal model offers the greatest							
					opportunity for lasting change but would require significant upfront investment and a	ı						
					tolerance for administrative disruption.							
					1	1						

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA330223	Architects of American Air Supremacy; Gen Hap Arnold and Dr. Theodore von Karman.	9/1/1997	U	[A - 01]	The United States Air Force is the most technologically advanced service in the world. Stealth, precision, global range, and space systems are only a few of the hallmarks of USAF technology. Airborne laser weapons, super-accurate sensors, and hypersonic aircraft are already in the early stages of development. Creations such as these are not the product of stagnant minds or idle hands. It was in 1944 that General of the Army Henry H. 'Hap' Arnold established the Army Air Forces (AAF) Scientific Advisory Group (SAG) under the direction of Dr. Theodore von Karman. The SAG meticulously created the first science and technology forecast ever accomplished in military history. The study predicted many of the developments in aviation technology which, today, most Americans take for granted. Some of the more outstanding of these are supersonic flight, precision weaponry, accurate radar, and the development of intercontinental ballistic missiles (ICBM). In Architects of American Air Supremacy, Dik Daso tells the story of the founding of the scientific and technological base of today's USAF. But this work is much more than simply a history of technology. The SAG was a culminating point reached only after many years of building interpersonal relationships, developing industrial bonds, and tapping the wisdom of America's most influential scientists. In large measure this book reflects the symbiotic nature of the military and the society which it serves. This book is an introduction to the very nature of the USAF-a service founded in aviation science and technology and built by great commanders, innovators, and dedicated men and women in the service of their nation.	AIR UNIV MAXWELL AFB AL	[Daso, Dik]	458	Not Available	[AU]	Not Available	Not Available
ADA006419	ldeas, Concepts, Doctrine: A History of Basic Thinking in the United States Air Force 1907- 1964. Volume 2	6/1/1971	U	[A - 01]	Contents: Early days through World War I, 1907-1926; Growth of the Air Force idea, 1926-1941; Air Force thinking and World War II; The Air Force in national defense: organization and strategy, 1944-1949; Responses to Soviet nuclear weapons and limited war, 1949-1953; The Air Force writes its doctrine, 1947-1955; Strategic implications of the new look, 1953-1957; Missile technology and the Air Force, 1945-1960; Impact of missiles and space on national organization and strategy; The new frontierredirection of defense strategy; The new frontiermaturity of defense strategy; The Air Force in a changing defense environment; Toward the futurenew directions in research and development.	AIR UNIV MAXWELL AFB AL AEROSPACE STUDIES INST	[Futrell, Robert F.]	405	Not Available	[AFHSO]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		-	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA154363	The Advanced Research Projects Agency, 1958- 1974	12/1/1975	U	[A - 01]	This historical evaluation of the Advanced Research Projects Agency (ARPA) as an R&D management institution was commissioned by ARPA in recognition of the fact that remarkably little in the way of an official recordor institutional memory had been established during its seventeen year lifetime. From Agency Directors to program managers, the turnover in its leadership has been rapid by most bureaucratic standards, thus eroding first hand knowledge of ARPA's role and activities rather quickly. Conceived as a unique management organization chartered to concentrate on advanced research within the Department of Defense, this very uniqueness has frequently been questioned. Virtually every ARPA Director, and most ARPA personnel at all levels, have encountered friendly and not-so-friendly why ARPA? and what is ARPA? questions throughout its history. This report seeks to explain some of the whys and whats. For the most part, the study ends in 1972 when ARPA was designated a Defense Agency. This date was arbitrarily chosen. In instances where events or programs started in earlier periods extend beyond 1972, they have been pursued a bit further for sake of completeness, but not past 1974.	BARBER (RICHARD J) ASSOCIATES INC WASHINGTO N DC	Not Available	634	Not Available	[ARPA]	Approved for Public Release; Distribution Unlimited.	Not Available
ADA286688	Space Handbook: Astronautics and Its Applications, Staff Report of the Select Committee on Astronautics and Space Exploration	1/26/1960	U	[A - 01]	Astronautics and its applications, Technology in the space environment, Rocket vehicles, propulsion systems, propellants, internal power sources, structures and materials, flight path and orientation control, guidance, communication, observation and tracking, atmospheric flight	RAND CORP SANTA MONICA CA	[Buchheim, Robert W.,Bjork, R. L.,Cohen, S. T.,Crain, C. M.,Davis, M. H.,Dole, S. H.,Edwards , T. I.,Frick, R. H.,Gabler, R. T.,Garber, T. B.]	250	Not Available	[US/CONGRESS]	Approved for public release; distribution is unlimited.	Staff rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		-	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA127012	Policy and Organization: The Next Step in the National Space Program.	1/1/1983	U	[A - 01]	A comprehensive national space policy is outlined that establishes realistic goals for the civilian space agency, as well as the establishment of a command within the Air Force to operationally control military space assets. Addressed is the National Space Program, its confusing history, its current issues, and its probable future. The focus is on the government agencies charged with leading this nations's public and military programs, the National Aeronautics and Space Administration (NASA), and the Department of Defense (DOD), respectively. Although the legal role each agency plays can be found in the Space Act of 1958, the programs each pursues are most governed by national space policy. The central theme of this report is policy, and the main purpose is to show the need for comprehensive civilian and military space policies along with the organizational changes required to implement them. The Introduction discusses the complex space policy formulation process. Chapter I concentrates on prospects and recommendations for future policies. Chapter II looks at the Space Transportation System and institutional issues plaguing NASA and DOD.	NATIONAL DEFENSE UNIV WASHINGTO N DC	[Schichtle, Cass]	215	Not Available	Not Available	Not Available	Research rept.,
AD0262630	DYNA SOAR RESEARCH OBJECTIVES	10/1/1960	U	[A - 01]	The research objectives of the Dyna Soar hypersonic glider are reviewed and the flight regime from which data will be obtained is presented in comparison with current manned space projects. The development of the glider through ground testing and research is outlined and areas in which significant technical advances will be made are pointed out. The flight test program is described in general with reference made to specific test objectives.	ADVISORY GROUP FOR AERONAUTIC AL RESEARCH AND DEVELOPME NT PARIS (FRANCE)	[ANDERTO N, JR, FRANK R.]	17	[291]	[AGARD]	Approved for public release; distribution is unlimited.	Not Available
AD0377073	REINFORCED GRAIN ADVANCED DEVELOPMEN T PROGRAM	10/1/1966	U	[A - 01]	The program originally outlined the development of three designs of lightweight, upper-stage motors using wire as grain reinforcement. Eventually, one of the original three upper-stage designs was replaced by a testweight air- launched demonstration motor with extreme environmental requirements. One of the upper-stage designs included a supersonic split-line gimbaled nozzle. Static firing test results of the upper- stage motors showed the design approach yielded high mass fraction goals. However, fabrication experience proved that unusual care and development approaches were necessary. Limitations and areas of risk, as well as preferred approaches, were established from the wide range of tests conducted during this Advanced Development Program.	ROCKETDYNE MCGREGOR TX SOLID ROCKET DIV	Not Available	952	[R-4233- 22,AFRPL-TR-66- 239]	[TR-66- 239,AFRPL]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1018138	Hypersonic Global Strike Feasibility and Options	2/15/2012	U	[A - 01]	This paper explores the feasibility of hypersonic weapons and aircraft as global strike options in the 2035 timeframe. The paper proposes there are currently two limitations or gaps in U.S. prompt global strike capabilities; timeliness, and increasingly the ability to gain access to the highly-defended target area. Additionally, the USAF has a long history of using advanced technology to stay ahead of the threat defense systems and gaining access to target sets, and by 2035, anti-access and area denial (A2/AD) technologies will increasingly threaten the USAF ability to hold any target on the globe at risk. Therefore, given the fact that technologies will continue developing to diminish and deny the advantages of stealth and space assets, could speed once again allow access to denied, heavily defended targets and close the gap for prompt global strike by 2035?	Air War College Maxwell Air Force Base United States	[Letsinger,J onathan M.]	61	Not Available	Not Available	Approved For Public Release;	Technical Report
AD0406298	THE REACTANCE OF A SYMMETRICAL PAIR OF STRIPS IN RECTANGULA R WAVEGUIDE	4/23/1963	U	[A - 01]	An integral equation is found for the currents on a pair of symmetrical inductive strips in a rectangular waveguide, and is solved by known techniques to the quasi- static approximation. The integrals involved in the formula for the reactance presented to the waveguide are ex pressed in terms of elliptic integrals, and by a comparison of the result with the known result for a single inductive strip, the mutual inductance between a pair of strips in a wave guide is deduced.	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[Lewin, L.]	22	[PIBMRI-1158- 63,AFCRL-63- 125]	[63-125,AFCRL]	Approved for public release; distribution is unlimited.	Not Available
AD1015731	General Thomas Dresser White: Renaissance Man in a Dark Age	6/1/2015	U	[A - 01]	General Thomas D. White's path to Chief of Staff of the Air Force was unorthodox. By talent, inclination, and background, White was an intellectual and diplomat at a time when senior leader ranks were dominated by operational expertise. Not until General Larry Welch would the Air Force see as diverse a leader at its helm. Whites worldview broadened Air Force priorities and policies in the early Cold War era and left a Service better able to meet national security objectives in aerospace - a term he himself championed.	AIR UNIV MAXWELL AFB AL MAXWELL AFB United States	[Winkleple ck,Christop her L.]	92	Not Available	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0409321	LEADING EDGES DEVELOPMEN T - DYNA SOAR	6/1/1963	U	[A - 01]	This document reports on the facilities development and test results from the Dyna Soar Leading Edge Development Program. The leading edge development program was undertaken: (1) to evaluate experimentally five leading edge and attachment scheme designs proposed for use on the glider and (2) to establish the reliability and structural integrity of the most promising design. All designs tested were evolved from the thin shell, coated molybdenum alloy leading edge concept which was proved feasible during Phase I of the Dyna Soar program. All tested leading edge designs performed satisfactorily from the strength standpoint. No structural failures were caused by sonic testing, thermal stresses resulting from thermal gradients and heating rates, or plasma testing of the double shell design. All designs supported significantly higher loads than predicted during static tests. Although oxidation failures occurred through the molybdenum disilicide coatings during the radiant heat and plasma jet tests, the extent of these failures did not prevent the specimens from meeting the design requirements.	BOEING CO SEATTLE WA	[Bowers, D. A.]	112	[D2-80085]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0708022	SYNTHESIS OF AERODYNAMI C FORCE CHARACTERIS TICS OF BISYMMETRIC LIFTING VEHICLES	4/1/1970	U	[A - 01]	The dependences of lift and drag coefficients on angle of attack for bisymmetric lifting vehicles are synthesized using two simplifying assumptions: (1) the axial force coefficient is independent of the angle of attack, and (2) the normal force coefficient increases linearly with the angle of attack. Good agreement with experimental data is found for the value of the angle of attack at which the maximum L/D occurs and the angle of attack for maximum C sub L in the hypersonic regime; applicability for subsonic flight is limited to those angles of attack below the inception of flow separation. Conditions for terminal equilibrium glide and landing for aircraft are derived from the simplified aerodynamic characteristics. With the linearized normal force, the following useful rules of thumb are obtained for super and hypersonic vehicles with maximum L/D greater than 1.0: (1) the drag at maximum L/D is very closely twice the zero-lift drag, (2) the L/D at maximum C sub L is about 0.8, (3) the angle of attack for maximum C sub L is about 48 deg, (4) the ratio of the maximum C sub L to the C sub L at L/D max is approximated by 0.5 + L/D(max), and (5) the ratio of the normal force slope to the maximum lift is closely 2.0 per radian.	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA SCIENCE AND TECHNOLOGY DIV	[Finke, Reinald G.]	32	[N- 595(R),IDA/HQ- 68-9485]	[68-9485,DARPA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA616117	Multi-	12/26/2014	U	[A - 01]	Temperature-constrained optimal trajectories for a scramjet-based hypersonic	AIR FORCE	[Masternak	416	[AFIT-ENV-DS-14-	[AFRL-RQ-WP]	Approved for	Doctoral
	Objective				reconnaissance vehicle were generated by developing an optimal control formulation	INSTITUTE OF	, Tadeusz		D-21]		public	thesis
	Trajectory				and solving it using a variable order Gauss-Radau quadrature collocation method. The	TECHNOLOGY	J.]				release;	
	Optimization				vehicle was assumed to be an air-breathing reconnaissance aircraft that has specified	WRIGHT-					distribution is	
	of a				takeoff/landing locations, airborne refueling constraints, specified no-fly zones, and	PATTERSON					unlimited.	
	Hypersonic				specified targets for sensor data collections. The aircraft model included fight	AFB OH						
	Reconnaissanc				dynamics, aerodynamics, and thermal constraints. This model was incorporated into	GRADUATE						
	e Vehicle with				an optimal control formulation that includes constraints on both the vehicle as well	SCHOOL OF						
	Temperature				as mission parameters, such as avoidance of no-fly zones and coverage of high-value	ENGINEERING						
	Constraints				targets. Optimal trajectories were be developed using several different performance	AND						
					costs in the optimal control formulationminimum time, minimum time with control	MANAGEME						
					penalties, and maximum range. The resulting analysis demonstrated that optimal	NT						
					trajectories that meet specified mission parameters and constraints can be							
					determined and used for larger-scale operational and campaign planning.							
AD0651391	LECTURES IN	1/15/1960	U	[A - 01]	Contents: Biophysics of the space environment; The upper atmosphere as observed	SCHOOL OF	Not	623	Not Available	Not Available	Approved For	Technical
	AEROSPACE				with rockets and satellites; Celestial bodies - the sun, planetary ecology	AEROSPACE	Available				Public	Report
	MEDICINE, 11-				(Astrobiology), Moon, Mars, Venus; Radiation in space; Propulsion systems; Space	MEDICINE					Release;	
	15 JANUARY				flight dynamicsincreased 'G', zero 'G'; Cabin atmospheresmetabolic requirements,	BROOKS AFB						
	1960				physical and chemical control; Space logisticsfood, water, waste, biosynthetic gas	TX BROOKS						
					exchanges; Toxicity of chemicals; Medical problems at launch sites; Psycho-	AFB United						
					physiological problems of manned space vehicles; Emergency and escape procedures;	States						
					Present and future personal equipment; Selection and training of space crews;							
					Research programsbiosatellites, the lunar colony, future problems.							
ADA005300	Protective	1/1/1975	U	[A - 01]	The bibliography contains unclassified and unlimited citations. Discussed are	DEFENSE	Not	329	[DDC-TAS-74-38]		Not Available	Report
	Clothing	_, _, _0 , 0	Ũ	[,. 0-]	protective clothing such as fire protective clothing, flight clothing, gasproof clothing,	DOCUMENTA	Available	010	[220	[220]		bibliography
					underwater clothing, pressure suits, and exposure suits. It also includes pertinent	TION CENTER						Jan 1953-Jun
					information on stress physiological, psychological and biological aspects of human	ALEXANDRIA						1974
					performance in the use of protective clothing in actual test.	VA						
	1											

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0261933	TRANSIENT RADIATION EFFECTS ON ELECTRONICS. PART 1. KUKLA TRANSIENT RADIATION TESTS	1/1/1961	U	[A - 01]	Contents: Kukla dosimetry Transient effects in dielectrics and capacitors Transient radiation induced spark gap breakdown in air Transient radiation induced firing of 5643 thyratron Transient effects in semiconductor diodes Analysis of circuit and piece part test requirements for transient radiation effects testing The kukla prompt critical facility.	BOEING CO SEATTLE WA	[Lander, Richard L.,Durkee, Robin K.]	228	[D2-7899-PT- 1,WADD-TN-61-8 PT-1]	[TN-61-8-PT- 1,WADD]	Approved for public release; distribution is unlimited.	Rept. for Jun- Sep 1960
ADA638057	Air Force Space Systems Development Program	10/20/1959	U	[A - 01]	There exists an urgent need to define and initiate a coordinated Air Force Space Systems Program. The following pages outline in broad terms a space program based on established Air Force General Operational Requirements plus other requirements which appear to be necessary to complete and integrate the over-all program. This planning guide, which we call SPADE for "Spece Development", has the following objectives: To delineate Air Force space requirements; To define the systems under development or being considered to meet these requirements; and 3. To promote the recognition and advancement of the technology needed to achieve the systems. This initial report, which is very preliminary, is designed to serve as the framework for continuing study. It is to be modified periodically as the need arises. This document is intended as a tool to assist in coordinating and ordering the Air Force space program definition and development, and is for the use of using commands in defining operational requirements, and centers and laboratories in analyzing development requirements. With the assistance of interested commands and agencies, the study ultimately should define and provide an. analysis of each of the required systems in sufficient detail to show the inter-relationship of the various technical requirements. The results of this analysis will indicate critical areas in which technological advancements are required to permit timely development of systems to accomplish the space-age missions.	AIR RESEARCH AND DEVELOPME NT COMMAND ANDREWS AFB MD	Not Available	137	Not Available	[ARDC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0478188	COMPLETION OF FABRICATION AND ASSEMBLY OF THERMAL MANAGEMEN T SYSTEM FOR DYNA-SOAR (X- 20)	12/1/1965	U	[A - 01]	Several components for the X-20 (Dyna-Soar) thermal management system were in final fabrication when the original Dyna-Soar contract was cancelled. The components for three systems were refurbished and, where necessary, remanufactured and then assembled, and acceptance tested. The thermal management system is designed to remove heat from several heat-generating sources on the X-20 space Vehicle, and to return a portion of the heat to the hydrogen storage tank to maintain tank pressure. The system employs an aqueous ethylene glycol heat-transport fluid to connect the various heat sources to the heat sink. The heat sink is cryogenic hydrogen, which is stored in the supercritical state as fuel for the auxiliary power unit (APU). The distinguishing feature of this system is its ability to proportion, as required, the total hydrogen flow to the APU and the cooling load, while maintaining system stability and logic over tank pressurization, heat rejection, and APU fuel demand.	GARRETT CORP LOS ANGELES CA AIRESEARCH MFG DIV	[Chase, A. B.]	185	[DS-273,AFAPL- TR-65-91]	[TR-65-91,AFAPL]	Not Available	Final rept. Aug 1964- Apr 1965
AD0481418	HEAT TRANSFER IN STRUCTURAL HONEYCOMB COMPOSITES AT HIGH TEMPERATUR ES	10/1/1965	U	[A - 01]	The use of superalloy and refractory alloy honeycomb composites for heat shield and structural components in re-entry vehicle applications is outlined followed by a detailed comparison between experimentally measured and analytically predicted thermal conductance values on superalloy honeycomb composites. The experimental thermal conductance determinations on L-605 cobalt alloy panels of variable geometry were made in high vacuum and air environments using a high temperature absolute thermal conductivity apparatus. Measurements were made over the range from 500 to 2000 F maintaining the temperature drop across the specimens below 200 F. Average precision of the results was plus or minus 7% while the accuracy was established to be plus or minus 10% based on initial calibration. The thermal conductances in air environment were between 60 and 100% above comparable values for the panels tested under vacuum conditions. Analysis of the results indicated that gaseous conduction and convection accounted for only a small fraction produced by increased emittance of the alloy through surface oxidation.	AIR FORCE MATERIALS LAB WRIGHT- PATTERSON AFB OH	[Minges, Merrill L.]	66	[AFML-TR-65- 233]	[AFML]	Not Available	Technical rept. Dec 1963-Dec 1964

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA451531	Comparative	3/1/2006	U	[A - 01]	The Department of Defense (DoD) has identified operationally responsive, low-cost	AIR FORCE	[Hank,	254	[AFIT/GAE/ENY/0	[AFIT/ENY]	Approved for	Master's
	Analysis of				access to space as vital to maintaining U.S. military supremacy. Reusable Launch	INST OF TECH	Joseph M.]		6-M12]		public	thesis
	Two-Stage-to-				Vehicles (RLVs) will allow the U.S. to keep a technological advantage over our	WRIGHT-					release;	
	Orbit Rocket				adversaries, and advances in airbreathing propulsion technology have made it	PATTERSON					distribution is	
	and				feasible for use in space launch vehicles. This study considers two-stage-to-orbit	AFB OH					unlimited.	
	Airbreathing				(TSTO) RLV configurations, each using combinations of propulsion including pure	SCHOOL OF						
	Reusable				rocket, pure turbine, rocket-based-combined-cycle (RBCC), and turbine-based-	ENGINEERING						
	Launch				combined-cycle (TBCC) for the both stages. This study explores the advantages of	AND						
	Vehicles for				airbreathing propulsion in those key areas when compared to a baseline	MANAGEME						
	Military				configuration, using vehicle empty mass and vehicle wetted area as the primary	NT						
	Applications				figures of merit. Results show that a vehicle using airbreathing propulsion on the							
					orbiter stage has a lower vehicle empty mass and wetted area than a pure rocket,							
					and allows the RLV to gain the advantages of using airbreathing propulsion. The							
					requirements used for this comparison are: 1) a payload module requirement of							
					20,000 pounds; 2) a 100x100 nautical mile, 28.5 lat. Easterly orbit and return; 3) use							
					of hydrocarbon fuels (RP-1 and/or JP-7) and liquid hydrogen (LH2); and 4) use of							
					liquid oxygen and/or air as oxidizers. ASTROX Corporation's Hypersonic System							
					Integrated Design Environment (HySIDE) code is used as the design tool throughout							
					the study.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA583713	Interactions between Flight Dynamics and Propulsion Systems of Air- Breathing Hypersonic Vehicles	1/1/2013	U	[A - 01]	The development and application of a first-principles-derived reduced order model called MASIV (Michigan/AFRL Scramjet In Vehicle) for an airbreathing hypersonic vehicle is discussed. Several significant and previously unreported aspects of hypersonic flight are investigated. A fortunate coupling between increasing Mach number and decreasing angle of attack is shown to extend the range of operating conditions for a class of supersonic inlets. Detailed maps of isolator unstart and ramto-scram transition are shown on the flight corridor map for the first time. In scram mode the airflow remains supersonic throughout the engine, while in ram mode there is a region of subsonic flow. Accurately predicting the transition between these two modes requires models for complex shock interactions, finite-rate chemistry, fuel air mixing, pre-combustion shock trains, and thermal choking, which are incorporated into a unified framework here. Isolator, which blocks airflow from entering the engine. Finally, cooptimization of the vehicle design and trajectory is discussed. An optimal control technique is introduced that greatly reduces the number of computations required to optimize the simulated trajectory.	MICHIGAN UNIV ANN ARBOR	[Dalle, Derek J.]	210	Not Available	[AFRL]	Approved for public release; distribution is unlimited.	Doctoral thesis
AD0827107	INVESTIGATIO N OF RADIATION AND CONDUCTION HEAT TRANSFER IN FIBROUS HIGH TEMPERATUR E INSULATIONS	12/1/1967	U	[A - 01,23]	The experimental investigation was concerned with understanding the mechanisms by which fibrous insulations attenuate the transfer of thermal energy. Three fibrous insulation materials, Dynaquartz, Sapphire Wool, and Dynaflex, were evaluated for their usefulness in the high temperature environment. Effective thermal conductivities were measured in air, argon, and vacuum up to 2500 deg F. Transmission experiments were carried out to evaluate the relative contribution of radiation attenuation parameters for Dynaquartz.	AIR FORCE MATERIALS LAB WRIGHT- PATTERSON AFB OH	[Rolinski, Edmund J.,Purcell, George V.]	160	[AFML-TR-67- 251]	[AFML]	Availability: Document partially illegible.	Final rept. Sep 1965- Aug 1967
ADA152969	Soviet Military Power	4/1/1985	U	[A - 01]	Contents: Soviet Military Power; Forces for Nuclear Attack; Strategic Defense and Space Programs; Ground Forces; Air Forces; Naval Forces; Global Ambitions; and Response to the Challenge.	DEPARTMENT OF DEFENSE WASHINGTO N DC	Not Available	145	Not Available	[DOD]	Not Available	4TH EDITION.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA450938	Ideas as	4/1/2006	U	[A - 01]	Ideas matter, but before they do, they must first establish themselves. This	AIR FORCE	[Rothstein,	418	Not Available	[AFIT]	Approved for	Doctoral
	Institutions:				dissertation explores how organizations come to embrace the ideas that they do. Its	INST OF TECH	Stephen				public	thesis
	Explaining the				findings suggest that ideas stick within organizations not simply when they make	WRIGHT-	M.]				release;	
	Air Force's				sense, or when they further an organization's goals and objectives. On the contrary,	PATTERSON					distribution is	
	Struggle With				in order to persist, ideas also need committed proponents, structures to adhere to,	AFB OH					unlimited.	
	Its Aerospace				and resources for nourishment. Moreover, ideas stand a better chance of taking root							
	Concept				and strengthening when they are congruent with the organization's external context.							
					by short, this dissertation suggests that ideas emerge, permeate, and persist within							
					organizations in the same way that institutions do within cultures. These broader							
					findings spring from a case study that details the history of the aerospace concept a							
					simple idea born and perpetuated within the United States Air Force in which "air"							
					and "space" are seen as a single indivisible medium rather than as two different							
					places. The concept has long been an official position of the Air Force, but it has							
					never fully taken hold. This describes a paradox of sorts: on one hand, the aerospace							
					concept is strong enough to persist as long as it has, but on the other, it is not strong							
					enough to stick. To understand this apparent inconsistency, the dissertation							
					evaluates the aerospace concept as if the idea was an emerging institution within the							
					Air Force. First, it derives a hybrid institutionalization process model by bridging two							
					disparate sources within institutionalism's literature.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0855086	Liquid	12/1/1968	U	[A - 01]	Project PYRO consisted of a comprehensive program to determine the blast and	URS	[Willoughb	506	[URS-652-35-VOL	[TR-68-92-VOL-	Approved for	Final rept.
	Propellant				thermal characteristics of the three liquid propellant combinations in most common	RESEARCH CO	y, A.		1,AFRPL-TR-68-	1,AFRPL]	public	Dec 1968
	Explosive				use in military missiles and space vehicles; liquid oxygen-RP-1 (LO2/RP-1), liquid	BURLINGAME	B.,Wilton,		92-VOL-1]		release;	
	Hazards.				oxygen - liquid hydrogen (LO2/LH2), and nitrogen tetroxide/50% unsymmetrical	CA	C., Mansfiel				distribution	
	Volume I.				dimethylhydrazine - 50% hydrazine (N2O4/50% UDMH - 50% N2H4). During the		d, J.]				unlimited	
	Technical				course of the program some 270 tests were conducted with these propellant							
	Documentary				combinations on weight scales ranging from 200 lb to 100,000 lb. This basic explosive							
	Report				test program was supplemented by analytical and statistical studies, laboratory-scale							
					experimental studies, simulation tests with inert propellant combinations and a							
					series of high-explosive tests for calibration and evaluation purposes. The basic test							
					program was designed to investigate the explosive characteristics of the three							
					propellant combinations for the most credible ways that the propellants might							
					accidentally come into contact with each other and result in a significant explosion.							
					The results of the basic test program in conjunction with the analytical studies and							
					prior information regarding liquid propellant explosive behavior were used as the							
					basis for developing methods for predicting the blast and thermal environment that							
					would be expected for any given missile or space vehicle system and any specified							
					failure mode. (Author)							
		- / / / / /					r	10.0				
AD0263472	Launching and	5/1/1961	U	[A - 01]	The purpose of this study was to investigate and derive concepts for alightment,	PNEUMO	[Levings,	136	[WADD-TR-60-	[TR-60-	Approved for	Technical
	Alightment				attachment, and departure of advanced, extremely high-altitude flight vehicles. The	DYNAMICS	Jr, Nelson		857]	857,WADD]	public	rept. Jun
	Systems for				following report describes the investigatory work, problems encountered, methods	CORP GRAND	Т.]				release;	1959-Jan
	Aero-Space				by which concepts were selected, and results of preliminary design integrity testing	RAPIDS MI					distribution is	1961
	Vehicles				as applicable to specifically selected concept models. Results indicate that valuable						unlimited.	
					data have been derived on the relative efficiency of the various types of shock							
					mitigation systems as originally conceived through the efforts of this project. The							
					basic framework for an evaluation technique by which the shock mitigation systems							
					can be rated as to energy-absorbing capability and entitlency with regard to							
					percentage of total mass of the system, has been provided. Additionally, through							
					precision application of the laws of similitude in developing models of the most							
					promising concepts, evidence has been provided as to the value of utilizing dynamic							
					scaling as an important aujunct to the analytical techniques for preliminary design.							

Number Quitor Quitor Quitor Quitor Quitor Quitor Quitor	Statement Note
AD0675148 PROCEEDINGS 4/1/1968 U [A - 01] The first day of the four-day meeting held 16-19 August 1966 was devoted to AIR FORCE [Barnes, 322 [AFCRL-68-0228] [AFCRL]	Approved for Special repts.
OF THE technical descriptions of six radar meteor trail systems. Methods of deriving winds, CAMBRIDGE Jr., Arnold	public no. 75
WORKSHOP wind shears and geometric height of the trails were presented on the second day. RESEARCH A., Paznioka	release;
ON METHODS Discussions of ambipolar diffusion rates and derived atmospheric densities and LABS s, Joseph	distribution is
OF density-heights were the topics for the third day. On the last day the discussion HANSCOM J.]	unlimited.
OBTAINING centered around the use of the data by the meteorologist. The height resolution and AFB MA	
WINDS AND data rates needed for climatological, tidal and turbulence studies were delineated.	
DENSITIES Two papers on wind studies at Sheffield, England and at Adelaide, Australia were	
FROM RADAR presented.	
METEOR TRAIL	
RETURNS	
ADA067543 An Aerospace 1/1/1978 U [A - 01] This second edition of the United States Air Force bibliography presents a selection of OFFICE OF [Miller, 349 Not Available Not Available Not Available	Availability: Not Available
Bibliography, books and periodical literature dealing with Air Force subjects. In choosing selections AIR FORCE Samuel	Superintende
for this bibliography the increasing volume of published material relating to U.S. Air HISTORY Duncan]	nt of
Force operations and activities necessitated great selectivity. The thirty-eight subject WASHINGTO	Documents,
groupings were chosen to provide researchers with ready references to broad N DC	GPO,
categories of general interest. A more detailed guide to specific topics is provided by	Washington,
the subject index. An author index is also appended as an aid in locating specific	DC 20402 HC
items.	\$4.50.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA117403	Application Actuation Trade Study	1/1/1982	U	[A - 01]	This report contains the results of The Airplane Actuation Trade Study program. The study, conducted in three phases, included establishment of actuation requirements; design of two airplanes (a baseline airplane and an all- electric airplane); and a trade study of the two airplanes including quantitative comparison data of weight, reliability and maintainability, and life cycle cost. The study results indicate that it is feasible to design a competitive power-by-wire actuation airplane. However, specific areas in hardware development need to be demonstrated through Research and Development programs to make the all-electric-airplane concept practical and low risk in the 1990+ time frame. Cost savings were identified with the all-electric airplane for the ATS mission. These came primarily from reduced secondary power system weight and complexity at some expense in ground checkout capability without running the engines. This study selected engine-shaft-mounted electric generators as opposed to airframe mounted accessor drives for the baseline airplane. Different mission/air vehicles will have to be studied individually to project cost and other benefits available from an all-electric airplane concept. The ATS study showed minor differences between hydraulic and all-electric applications, with a slight advantage toward an all-electric approach in terms of life cycle costs.	BOEING MILITARY AIRPLANE CO SEATTLE WA	[Boldt, T. R.,Chenow eth, C. C.,Mehdi, I. S.,Raymon d, E. T.,Witonsk y, L.]	269	[D180-25487- 3,AFWAL-TR-81- 3153]	[TR-81- 3153,AFWAL]	Not Available	Final rept. 25 Jul 1979-25 Aug 1981
AD0461200	THE SHOCK AND VIBRATION BULLETIN	2/1/1965	U	[A - 01]	This is part 5 of over one hundred papers presented on various aspects of the shock effects, mechanical response, and vibration damping of energy absorbing structures used in launch vehicles, guided missiles, ships, electronics packaging, spacecraft, and other systems subjected to vibration and stress. Specifications of test methods, test results, and monitoring instrumentation are described. Statistical methods for analyzing stress wave data are used, and design criteria for fabricating shock resistant structures are examined from mathematical models. (LS-PL).	NAVAL RESEARCH LAB WASHINGTO N DC	Not Available	286	[BULL-34-PT-5]	[NRL]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1070701	History of US	3/29/2019	U	[A - 01]	The history of Air Force developmental test in space includes both manned and	AFTC History	[Smith,	71	[412TW-PA-	Not Available	Approved For	Technical
	Air Force				unmanned vehicles and systems, ground and flight test, and the expertise of testers	Office	Stephanie		19191]		Public	Report,01
	Development				of both Arnold and Edwards Air Force Bases, with a history back to the 1950s. The	Edwards	M]				Release;	Jan 1958,31
	Test in Space				examination of internal Air Force primary and secondary sources, as well external	United States						Dec 2018
					primary and secondary historical sources reveals that while developmental test and							
					evaluation represented only a small part of the Air Force mission, the successful							
					employment of air and space systems ultimately depended upon the expertise of							
					testers in supplying relevant test data, gathered with rigor, objectivity, and discipline,							
					to program designers, developers, and operators. Moreover, no other military							
					organization in the nation matches the Air Force Test Center enterprise for							
					experience in and capabilities for manned spaceflight, particularly in the transition							
					from launch to orbit to reentry under pilot control, as well as for infrastructure and							
					corporate and technical knowledge. This long, diverse, and fruitful history of space							
					test expertise has made the Air Force Test Center test enterprise the optimal home							
					for the future of Air Force developmental test in space.							
				[			10					
AD0271010	EQUIVALENT	9/1/1961	U	[A - 01]	An approximate solution for an equivalent circuit representation of a two	BROWN UNIV	[Cronson,	76	[SR-AF-4561-	[949,AFCRL]	Approved for	Not Available
					dimensional waveguide junction is obtained over several ranges of significant	PROVIDENCE	H. M.J		13,AFCRL-949]		public	
					parameters. The junction is formed by a semi-infinite, dielectric filled, parallel plate	RI					release;	
	FOR AN				guide contained symmetrically within an infinite parallel plate guide. The structure is						distribution is	
	INHOMOGENE				Tirst reduced to a half-space problem and formulated in terms of the appropriate field						unlimited.	
					modes in each of the parallel plate guides forming the junction. These modes are							
	BIFURCATED				matched at the plane of discontinuity and the resulting equations rearranged to							
	WAVEGUIDE				resemble ordinary circuit equations. The circuit elements of the equivalent circuit							
					the second and the second and the second and the equations. The determination of the values of							
					these elements requires the solution of an infinite set of innomogeneous algebraic							
					requations. Solutions are obtained by approximate methods with the aide of an iBivi							
					obtained for the degenerate case, in which the dielectric vanishes, with known event							
					results. This check suggests that the approximate results for the case of pen							
					vanishing dielectric should be within a few per cent of the correct values							
					vanishing alciectife should be within a few per cent of the correct values.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA476454	Air Force Roles and Missions: A History	1/1/1998	U	[A - 01]	The twentieth century witnessed the emergence of three-dimensionality in war: surface forces flow became prey for attackers operating above and below the earth and its oceans. The aerial weapon, prophesied for centuries, became a reality, as did air power projection forces. This insightful book by Warren A. Trest traces the doctrinal underpinnings of the modern United States Air Force, the world's only global air force. We the men and women who serve in the Air Force, but also our fellow airmen in America's other military services are the heirs and beneficiaries of a long heritage of doctrinal development and military thought. Our predecessors pursued a vision of airborne global reach and power that often put them at odds with those who could not break free of the confines of conventional thought and lock-step traditionalism. Fortunately, they had the courage of their convictions and the faith in their vision to continue to pursue the goal of global air power despite such resistance. Today, America is a genuine aerospace power, and that pioneering vision dating to the days of the Wright brothers, has expanded to encompass operations in space and between the mediums of air and space. As we approach the new millennium, it is well to ponder the lessons and the history of how a small group of truly gifted airmen transformed their nation's military establishment, and, in so doing, the world around them.	OFFICE OF AIR FORCE HISTORY WASHINGTO N DC	[Trest, Warren A.]	346	Not Available	[USAF]	Approved for public release; distribution is unlimited.	Not Available
AD0252376	FOURTH SEMIANNUAL REPORT TO CONGRESS, APRIL 1, 1960 THROUGH SEPTEMBER 30, 1960	9/30/1960	U	[A - 01]	Contents: Satellite applications Manned space flight Scientific satellites and sounding rockets Lunar, planetary, and interplanetary programs Tracking and data acquisition Launch vehicle program and launch operations Propulsion and nuclear energy applications for space International programs Research primarily supporting aeronautics activities Research primarily supporting space activities Special research projects Research center direct support Construction and equipment Life sciences programs Organizational developments Procurement, contracts, and grants Personnel Financial management.	NATIONAL AERONAUTIC S AND SPACE ADMINISTRA TION WASHINGTO N DC	Not Available	292	Not Available	[NASA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA433274	A Concise	1/1/1997	U	[A - 01]	Except in a few instances, since World War II no American soldier or sailor has been	AIR FORCE	[McFarland	89	Not Available	[AFHSO]	Approved for	Not Available
	History of the				attacked by enemy air power. Conversely, no enemy soldier or sailor has acted in	HISTORY	, Stephen				public	
	U.S. Air Force				combat without being attacked or at least threatened by American air power.	SUPPORT	L.]				release;	
					Aviators have brought the air weapon to bear against enemies while denying them	OFFICE					distribution is	
					the same prerogative. This is the legacy of the U.S. Air Force, purchased at great cost	BOLLING AFB					unlimited.	
					in both human and material resources. More often than not, aerial pioneers had to	DC						
					fight technological ignorance, bureaucratic opposition, public apathy, and							
					disagreement over purpose. Every step in the evolution of air power led into new and	I						
					untrodden territory, driven by humanitarian impulses; by the search for higher,							
					faster, and farther flight; or by the conviction that the air way was the best way.							
					Warriors have always coveted the high ground. If technology permitted them to							
					reach it, men, women, and an Air Force held and exploited it from Thomas							
					Selfridge, first among so many who gave that "last full measure of devotion"; to							
					Women's Air Force Service Pilot Ann Baumgartner, who broke social barriers to							
					become the first American woman to pilot a jet; to Benjamin Davis, who broke racial							
					barriers to become the first African American to command a flying group; to Chuck							
					Yeager, a one-time noncommissioned flight officer who was the first to exceed the							
					speed of sound; to John Warden, who began a revolution in air power thought and							
					strategy that was put to spectacular use in the Gulf War. This book provides a short							
					history of military air power in the United States from the Civil War to the Persian							
					Gulf War. Chapters are as follows: The Genesis of American Air Power; Trial and Error							
					in World War I; Interwar Doctrine, Organization, and Technology; World War II							
					Global Conflict; Air Power in the Nuclear Age; Limited War in Korea; The "New Look"							
					Air Force; Flexible Response and Vietnam; The Cold War Concluded; Air Power							
					Triumphant The Gulf War; and The Future7							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
Number AD0483820	CORONA ONSET VOLTAGE OF INSULATED AND BARE ELECTRODES IN RAREFIED AIR AND OTHER GASES	6/1/1966	Class U	Codes [A - 01]	Electrical discharges caused by corona, glow discharges, and voltage breakdown were measured under conditions encountered in the X-20A (Dyna-Soar) aerospace vehicle when operating within the 70,000-to 250,000-ft altitude zone. Most measurements were made at the electric-power-system frequency (400 hertz) in gases used to pressurize X-20A compartments. These gases were nitrogen, oxygen, notrogen-oxygen mixtures, and normal sea level air at reduced pressure. Test results show that: (1) the corona onset voltage (that voltage at which the electrical discharge is initiated) can be increased by insulating the electrical terminals and by twisting or cabling the insulated wires; (2 the corona onset voltage between insulated wires is increased as the insulation is made thicker and insulation dielectric constant is made lower, and is decreased to that of bare wires as the wire diameter and wire spacing are increased; and (3) the corona onset voltage of components depends on the type	Author BOEING AEROSPACE CO SEATTLE WA	Authors [Dunbar, William G.]	Count 189	Numbers [D2-84141- 1,AFAPL-TR-65- 122]	[TR-65- 122,AFAPL]	Statement Approved for public release; distribution is unlimited	Note Final rept. Jul- Dec 1965
					of component, its wire connections, its installation, and the gaseous environment. The corona onset voltage of round, bare, nichrome wires is less at temperatures over 500 C than at temperatures between -60 C and 150 C. The corona onset voltage drops to nearly zero when contaminants such as molybdenum-trioxide vapor permeate the air space between wires at temperatures above 500 C and pressures above 1.0 torr.							
AD0296108	NATURAL ENVIRONMEN TAL DATA AND SUPPORT REQUIREMEN TS	1/1/1963	U	[A - 01]	The what and the why of present and future Air Force Systems Command requirements for natural aerospace environmental data and information are described. The environmental parameters about which information i desired are enumerated and the purposes for which the information is or will be used are discussed. Included are substantiated, qualitative statements of need for data or support, without regard to whether the support requires R+D action or can be met through existing state-of-the-art technological capabilities. Development of equipments and techniques will certainly be required to fill the gaps in our knowledge and capabilities, but these requirements are not discussed. Background information for those who plan and estimate resources for future natural environmental support to the USAF is provided.	AIR FORCE SPECIAL WEAPONS CENTER KIRTLAND AFB NM	Not Available	98	[TDR-63-2]	[AFSC]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
Number AD0283911	SIX-DEGREE- OF-FREEDOM EQUATIONS OF MOTION FOR A MANEUVERIN G RE-ENTRY VEHICLE	6/15/1962	U	Codes [A - 01]	Equations of motion for a re-entry vehicle are developed for use with a digitally operated, fixed-base simulator. The equations provide: six- degrees-of-freedom for a vehicle of nonvarying mass hose trajectory and orientationARE GIVEN WITH RESPECT TO A SPHERICAL, ROTATING EARTH; AN INVERSE- SQUARE GRAVITATIONAL FORCE, A ROTATING ATMOSPHERE, AND RELEVANT ATMOSPHERIC PROPERTIES; AND AERODYNAMIC FORCES AND MOMENTS IN COEFFICIENT FORM, AND REACTION CONTROL MOMENTS. The only restriction on attitude, maneuver, or flight path is that flights directly over the North and South poles are excluded. The equations, as described, have been programme on an IBM 704 and specific solutions were obtained to show effects of maneuvers, pilot's inputs, different geophysical models, and mathematical simplifications. The report contains descriptive chapters on geophysics and aerodyn mics and control which are especially pertinent to re-entry simulation. In addition, Appendices extend the equations for varying mass, large	Author CORNELL AERONAUTIC AL LAB INC BUFFALO NY	Authors [SCHULER, JOHN M.,PRITCH ARD, FRANCIS E.]	Count 180	Numbers [NAVTRADEVCEN- 801]	[801,NAVTRADEV CEN]	Statement Approved for public release; distribution is unlimited.	Not Available
AD0413858	AN INDEX TO NON METALLICS R+D PROGRAMS OF TEN AEROSPACE COMPANIES. SUPPLEMENT 1	5/9/1963	U	[A - 01,23]	thrust, and earth oblateness with rela ed effects. Not Available	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	218	[ASD-ASRCE-TM- 62-24-SUPPL-1]	[ASRCE-TM-62-24- SUPPL-1,ASD]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0454611	TABULATION OF LEGENDRE FUNCTIONS AND CONICAL FUNCTIONS	10/1/1964	U	[A - 01]	This report presents tabulations of several different classes of Legendre functions. The tabular values are given to six decimal places with a possible error of one in the sixth digit. Second, the conical functions and certain derivatives are given in the range 0 less than or equal to b less than or equal to 5. These tabular values are given only to five significant figures with a percentage absolute error that should not exceed one in the fifth figure.	ARMY MATERIALS RESEARCH AGENCY WATERTOWN MA	[Ross, Jr, Edward W.]	210	[AMRA-TR-64- 24]	[AMRA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0750109	Research and Development Contributions to Aviation Progress (RADCAP). Volume 2. Appendices 1 thru 9	8/1/1972	U	[A - 01,23]	Volume 2 of a two volume report provides supplementary information concerning the results discussed in Volume I. It covers the several technical disciplines in order to identify the major technological advances that have been made in aviation since 1925, the relevancy of currently planned and funded DoD aeronautical R+D programs to the R+D needs of civil transport aviation.	AERONAUTIC AL SYSTEMS DIV WRIGHT FIELD OH	[Hudson, Jr., Charles R.,Gebhard , James B.,Dean, Robert E.,Framme, Richard J.,Olevitch, Albert]	614	[ASD-TR-72-3073 VOL-2]	ASD]	Approved for public release; distribution is unlimited. Document partially illegible.	Final rept.
AD0274641	STUDY OF INSTRUMENT ATION AND TECHNIQUES FOR MONITORING VEHICLE AND EQUIPMENT ENVIRONMEN TS AT HIGH ALTITUDES. VOLUME II. EFFECTS OF HIGH- ALTITUDE ENVIRONMEN TS ON VEHICLES AND EQUIPMENT	6/1/1960	U	[A - 01]	EQUIPMENT, Electrical equipment, Communication systems, Auxiliary power plants, Closed-cycle ecological systems.) (Shock, Aerodynamic heat ing, Meteorites.) Identifiers: X-15, Dyna-Soar, Mercury. Environments are presented which were determined to be deleterious to the vehicle. A chart is presented which indicates which of the environments affects the various materials and subsystems. An analysis was made of the effects of the environments on such materials as metals, plastics, ceramics, elastomers, surface coating materials, lubricants, and hydraulic fluids. An analysis was made of the environmental effects on vehicle subsystems taken from the X-15, DynaSoar, and Mercury Systems. The subsystems are typical of those to be used in future high altitude vehicles. The subsystems analyzed are structure, flight control, communications, environmental control, escape, and auxiliary power units. (Author)	RADIO CORP OF AMERICA CAMDEN N J	[WACHOLD ER,B.V.,FAY ER,E.]	1	[TN59 307 V2,ASD-TN59 307 V2]	[TN59 307 V2]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA402461	The	5/1/2002	U	[A - 01]	The world that lies in store for us over the next 25 years will surely challenge our	AIR UNIV	[McClintoc	84	Not Available	[AU-SAAS]	Not Available	Not Available
	Transformatio				received wisdom about how to protect American interests and advance American	MAXWELL	k, Bruce					
	n Trinity. A				values'. With these words, the Commission on National Security in the 21st Century	AFB AL	Н.]					
	Model for				captured the exciting challenges this study sets out to explore. First, this study	SCHOOL OF						
	Strategic				develops a generalized model for United States military transformations in	ADVANCED						
	Innovation				peacetime. To develop the model the author combines observations made by several	AIRPOWER						
	and its				historians about recurrent trends in military strategic innovation. The author	STUDIES						
	Application to				concludes that, after taking into account inevitable uncertainty, there are three							
	Space Power				identifiable factors that occur in most cases of military transformation. The three key							
					factors are the need for a coherent, congruent vision; an emerging culture that							
					bolsters the vision and develops competing theories of victory to fulfill the vision; and	I						
					a process for honestly assessing the maturing vision and its supporting theories of							
					victory. After defining the limitations of the model and its usefulness, the author							
					applies the framework to an important aspect of national security-the future of space							
					power. The framework is used to study the recent approach to space power from a							
					civilian policy and military application perspective. Application of the transformation							
					model highlights some important points about the present approach for developing							
					space power. First, the civilian vision is not completely congruent with the military							
					vision and the military vision is inconsistent. Second, the military-primarily the Air							
					Force-has made moderate but hesitant progress towards nurturing a space power							
					culture with some unexpected consequences. Third, the military has an							
					uncoordinated, haphazard approach to assessment that blurs the merit of the space							
					power vision and associated theories.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA391671	The Transformatio n Trinity. A Model for Strategic Innovation and it's Application to Space Power	6/1/2000	U	[A - 01]	"The world that lies in store for us over the next 25 years will surely challenge our received wisdom about how to protect American interests and advance Amen can values." With these words the Commission on National Security in the 21st Century capture the exciting challenges this paper sets out to explore. First, this study develops a generalized model for United States military transformations in peacetime. To develop the model the author combines observations made by several historians about recruitment trends in military strategic innovation. The author concludes that, after taking into account inevitable uncertainty, there are three identifiable factors that occur in most cases of military transformation. The three key factors are: the need for a coherent, congruent vision; an emerging culture that bolsters the vision and develops competing theories of victory to fulfill the vision; and a process for honestly assessing the maturing vision and its usefulness, the author applies the framework to an important aspect of national security the future of space power.	AIR UNIV MAXWELL AFB AL SCHOOL OF ADVANCED AIRPOWER STUDIES	[McClintoc k, Bruce H.]	109	Not Available	[AU-SAAS]	Not Available	Master's thesis
AD0390205	PRELIMINARY DESIGN AND EXPERIMENTA L INVESTIGATIO N OF THE FDL- 5A UNMANNED HIGH L/D SPACECRAFT. PART 4. AEROTHERMO DYNAMICS	3/1/1968	U	[A - 01]	Design and experimental analyses of unmanned entry research vehicles having high hypersonic L/D and high volume are described. Analytic parametric data are presented for two lifting body classes designated HLD-35 and FDL-5. Experimental aerodynamic and heat transfer data obtained from Arnold Engineering Development Wind Tunnels A, B, C, and F are compared with analytic data for the FDL-5 vehicle. Structure and subsystems are selected for performing unmanned hypersonic research with the vehicle.	LOCKHEED- CALIFORNIA CO BURBANK	[Guard, Fred L.,Schultz, Howard D.]	419	[LR-21204-PT- 4,LAC- 619518,AFFDL- TR-68-24-PT-4]	[TR-68-24-PT- 4,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. 1 Jul 1966-31 Mar 1968

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1082458	The Path to	11/1/1983	U	[A - 01]	Few concepts in the two hundred year history of aerospace development have held	AIR FORCE	[Hallion,Ric	114	[412TW-PA-	[412TW-PA-	Approved For	Technical
	the Space				greater fascination than that of flying into space and returning to earth following a	TEST CENTER	hard P.]		19438]	19438]	Public	Report
	Shuttle: The				lifting reentry through the atmosphere: and few concepts have faced so profound a	EDWARDS					Release;	
	Evolution of				series of technical challenges. Long before the developers of the present-day Space	AFB CA						
	Lifting Reentry				Shuttle first set drafting pens to paper, the concept of lifting reentry had already	EDWARDS						
	Technology				sparked controversy and generated a number of occasionally contradictory proposals	AFB United						
					for actual spacecraft. The evolutionary path to the first winged reentry spacecraft is	States						
					marked by numerous false starts, roads not taken, innovative decision making, and							
					carefully thought-out analysis of just what such spacecraft should be expected to do.							
					It is hoped that this historical monograph will improve understanding of how and why							
					Shuttle came to be, and that it will serve to promote further research on the							
					evolution of manned spaceflight in the twentieth century and the continuing							
					relationship between government and industry in fostering aerospace development.							
40446206		1/1/2002		[4 01]	This should be set the set the set of the se		[] a sa la a tila	207				
ADA416396	Mastering the	1/1/2003	U	[A - 01]	Inis study assesses the military space challenges facing the Air Force and the nation	RAND CORP	[Lambeth,	207	[KAND/IVIR-	[USAF]	Not Available	Not Available
	Oltimate High				In light of the watershed findings and recommendations of the congressionally		Benjamin		1649]			
	Ground. Next				mandated Space Commission that were released in January 2001. It seeks to capture	MONICA CA	5.]					
	Steps in the				the best thinking among those both in and out of uniform who have paid especially							
	willitary Uses				crose attention to military space matters in recent years. After a review of the main							
	of space				milestones in the Air Force's ever-growing involvement in space since its creation as							
					an independent service in 1947, the study examines the circumstances that							
					occasioned the commission's creation by Congress in 1999, as well as some							
					conceptual and organizational roadblocks both within and outside the Air Force that							
					have long impeded a more rapid growth of 0.5. Imitary space capability. It concludes							
					by exploring the most digent space-related concerns now in need of Air Force							
					attention. Although the study offers a number of suggestions for shirts in emphasis in							
					o.s. milling space policy, it is primarily analytical rather than prescriptive. As such, it							
					nolicy recommendations							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0466938	RANGE	10/1/1963	U	[A - 01]	The emphasis in space technology over the past several years has shifted to very-long-	TRW SPACE	Not	219	[ESD-TDR-63-354-	[TDR-63-354-VOL-	Approved for	Final rept.
	INSTRUMENT				range missiles, orbiting vehicles, and deep-space probes. Thus support from the test	TECHNOLOGY	Available		VOL-6]	6,ESD]	public	
	ATION				environment is now required on a truly global basis. For this reason, equipment	LABS					release;	
	PLANNING				compatibility and a means of integrating the operations of the existing ranges have	REDONDO					distribution is	
	STUDY.				become necessities. This program is a study of the entire test environment problem	BEACH CA					unlimited.	
	VOLUME 6.				for these classes of missions and tests.							
	TTC AND											
	LONG-HAUL											
	COMMUNICA											
	TIONS											
AD0404197	AFRODYNAMI	9/1/1962	U	[A - 01 23]	A theoretical model of evaporative film cooling was developed for blunt bodies	MINNESOTA	[Herman	103	Not Available	[AFOSR]	Approved for	Not Available
	C AND HEAT	0, 1, 1001	Ū.	[/: 01)10]	indicating the effect of mass transfer on heat transfer for Prandtl and Lewis numbers	UNIV	Rudolf.Mel	200		[/ 0011]	public	
	TRANSFER				unity. The velocity of the liquid film at the gas-liquid interface is assumed to be so	ROSEMOUNT	nik. W. L.1				release:	
	STUDIES WITH				small that the gaseous phase is unaffected. This assumption was verified by a	ROSEMOUNT	, ,				distribution is	
	EVAPORATIVE				numerical example from the analysis. With this approximation the effect of mass	AERONAUTIC					unlimited.	
	FILM				transfer (evaporation from the liquid film) on heat transfer from the gas-phase	AL LABS					Document	
	COOLING AT				boundary layer was obtained from the literature on transpiration cooling. The						partially	
	HYPERSONIC				velocity profile through the liquid film was found to be identical to that of a Couette						illegible.	
	MACH				flow with pressure gradient. The evaporative film cooling experiments were con						U	
	NUMBERS				ducted on hemisphere- cylinder, blunted cone, and flat-faced cylinder models at							
					Mach Number 6.8 in a high temperature hypersonic blowdown wind tunnel at the							
					Rosemount Aeronautical Laboratories.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1019128	All the	6/1/2010	U	[A - 01]	History reveals a Janus-faced, nearly schizophrenic military attitude towards	Air War	[Fino,Steve	164	Not Available	Not Available	Approved For	Technical
	Missiles Work				technological innovation. Some technologies are stymied by bureaucratic skepticism;	College	n A.]				Public	Report
	Technological				others are exuberantly embraced by the organization. The opposing perceptions of	School of					Release;	
	Dislocations				technological skepticism and technological exuberance that characterize military	Advanced Air						
	and Military				history mirror the different interpretations of technologys role in society. Thomas	and Space						
	Innovation: A				Hughes theory of technological momentum attempted to reconcile two of the	Studies						
	Case Study in				disparate ideologies, that of social constructivism and technological determinism. The	Maxwell AFB						
	US Air Force				theory of technological dislocations advanced by this thesis is a refinement of Hughes	United States						
	Air-to-Air				theory and is more reflective of the complex, interdependent relationship that exists							
	Armament,				between technology and society.Drawing on a single, detailed historical case study							
	Post-World				examining the development of air-to-air armament within the US Air Force, post-							
	War II through				World War II through Operation Rolling Thunder, this thesis illustrates how an							
	Operation				unwavering commitment to existing technologies and a fascination with the promise							
	Rolling				of new technologies often obfuscate an institutions ability to recognize and adapt to							
	Thunder				an evolving strategic environment. The importance of a keen marketing strategy in							
					outmaneuvering bureaucratic skepticism, the benefits of adopting a strategy of							
					innovative systems integration vice outright systems acquisition, and the need for							
					credible, innovative individuals and courageous commanders willing to act on their							
					subordinates recommendations are all revealed as being critical to successful							
					technological innovation.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0601265	SUMMARY OF THE REFRACTORY COMPOSITES WORKING GROUP MEETING (7TH). VOLUME 2	11/1/1963	U	[A - 01]	Contents: Emittance measurements of disilicide-type coatings at the U. S. Naval Radiological Defense Laboratory, by N. J. Alvares Preliminary results of diffusion studies of commercially available coatings on Mo-0.5 Ti molybdenum alloy sheet at 2500F, by W. B. Lisagor Activities of Bell Aerosystems Company with refractory materials, by F. M. Anthony Recent developments at Martin Denver in the refractory composites area, by R. L. wells Activity report of high temperature coating and material programs at AMF, by M. E. Browning Coating activities at Texas Instruments Incorporated, by P. F. Woerner NBS activities in high-temperature materials, by D. G. Moore A portfolio of experience in refractory metal protective systems, by D. H. Leeds Progress briefing for Refractory Composites Working Group Meeting 12-14 March 1963, by J. C. Ingram, Jr. Refractory coating research and development at U. S. Army Materials Research Agency (AMRA), by M. Levy Evaluation procedures for screening coated refractory metal sheet, by J. J. Gangler.	AIR FORCE MATERIALS LAB WRIGHT- PATTERSON AFB OH	[Hjelm, L. N.,James, Darrell R.,Lee, C. S.]	283	[RTD-TDR-63- 4131-V2]	[TDR-63-4131- V2,AFML]	Approved for public release; distribution is unlimited.	Not Available
AD0405040	CONSEQUENC ES OF SYMMETRY IN PERIODIC STRUCTURES	2/1/1963	U	[A - 01]	Periodic guiding or radiating structures at microwave frequencies frequently possess symmetry properties in addition to their axial periodicity. These include rotation and reflection symmetries, whether occurring alone or in conjunction with translations. These symmetries influence the characteristics of the electromagnetic fields associated with the structures. Therefore, useful information concerning the fields can be obtained from the symmetry properties without resorting to detailed field solutions or to equivalent circuit analogs. These symmetry properties are conveniently analyzed by introducing symmetry operators under which the structure is invariant. This analysis shows that two symmetries, the screw and the glide, are particularly important in determining the characteristics of the fields. Some of the implications of these symmetries for leaky wave antennas and microwave tube interaction circuits are explored. The consequences of screw and glide symmetries, together with five other possible symmetries, are examined to facilitate the analysis and synthesis of periodic microwave structures.	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[Crepeau, P. J.,McIsaac, P. R.]	56	[PIBMRI-RR-1113 63,AFCRL-63- 104]	[63-104,AFCRL]	Approved for public release; distribution is unlimited.	Research rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0411433	THE BLUNT- BODY PROBLEM IN HYPERSONIC FLOW AT LOW REYNOLDS NUMBER,	6/1/1963	U	[A - 01]	Existing theoretical analyses and experimental results of the stagnation region in hypersonic flow at low Reynolds number are discussed. The approach based on the thin-shock-layer approxi mation is extended to study flow fields beyond the stagnation region as well as in the shock transition zone. The basic flow model consists of two adjoining thin layers: a shock-transition zone and a shock layer. The system of partial differential equations governing the high-density shock layer reduces to the parabolic type. The system governing the shock-transition zone reduces to ordinary differential equations similar to those of the one-dimensional shock wave. They give rise to a set of conservation relations across the shock, which account for the transport processes immediately behind the shock but do not involve details of shock-wave structure. With the modified Rankine-Hugoniot relations, the flow field in shock layer can be determined independ ently of the shock-transition zone. An essential feature of this formulation is that, when applied in conjunction with nonslip surface conditions, it always yields the appropriate surface heat transfer rate and skin friction (for unit accommo dation coefficients) in the free-molecule limit. (Author)	CORNELL AERONAUTIC AL LAB INC BUFFALO N Y	[Cheng,Hsi en K.]	120	[AF1285A10]	Not Available	Not Available	Not Available
AD0745242	Aviation on the Threshold of Space (Chapter 9)	5/1/1972	U	[A - 01]	The document discusses general problems and progress thus far involving space- aircraft or 'lifting bodies'. All sources quoted are from U.S. publications except for one French reference to a space station. Vehicles described include the Dyna Soar, X- 15, SV-5D, X-24A, HL-10, and a U.S. orbital space station. Problems discussed include heat-shielding, methods of control, speeds, and power sources.	FOREIGN TECHNOLOGY DIV WRIGHT- PATTERSON AFB OH	[Ponomare v, A. N.]	40	[FTD-MT-24- 1461-71]	[FTD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA459973	Into the Unknown Together. The DOD, NASA, and Early Spaceflight	9/1/2005	U	[A - 01]	Between the 4 October 1957 launching by the Soviet Union of the first artificial earth satellite, Sputnik I, and the successful American landing and return from the moon in July 1969, the United States sponsored five human-spaceflight programs. The author examines the NASA-DOD relationship in human-spaceflight programs by looking at three issues First, what was the attitude of presidents Dwight D. Eisenhower, John F. Kennedy, and Lyndon B. Johnson toward the use of space exploration as a tool to secure international prestige and national pride as part of the Cold War struggle? Second, what institutional relationship existed between NASA and the DOD, the level of support, coordination, and rivalry during each president's term(s)? What specific instances and programs illustrate these dynamics? How did NASA achieve greater independence by lessening its reliance on the DOD over those 12 years? The third examination will focus on the actual projects themselves: Mercury, Gemini, Apollo, Dynasoar, and MOL. What was each designed to accomplish and why?	AIR UNIV PRESS MAXWELL AFB AL	[Erickson, Mark]	683	[B-98]	[AUP]	Approved for public release; distribution is unlimited.	Monograph
ADA294448	Military Man in Space Essential to National Strategy.	4/1/1995	U	[A - 01]	The United States has never had a consistent policy regarding the use of military men and women in space. At a time when the United States, and much of the developed world,has become critically dependent on space assets, continued inconsistency may prove detrimental to U.S. national interests. This paper proposes that using military "soldiers" in space is important to the national security of the United States. It begins with a review of the way space systems impact national policy today, and how that might change over the next few decades. Subsequent chapters focus on the unique talents humans bring to space operations, citing case histories in which astronauts and cosmonauts made the difference between mission success or failure. Following is a history of previous military programs designed to use or explore the use of military astronauts. Despite the cancellation of those programs, there are still potential roles for military personnel in space, and they are discussed as well. Space doctrine should be the same as that for air, sea or land. Space is simply another potential battlefield.	INDUSTRIAL COLL OF THE ARMED FORCES WASHINGTO N DC	[Carretto, Joseph A., Jr]	57	[NDU-ICAF-95- S3]	[NDU/ICAF]	Not Available	Research rept. Aug 94- Apr 95,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0311156	BOOST GLIDE WEAPON SYSTEM APPLICATION STUDY. VOLUME III	6/30/1959	U	[A - 01,23]	This class of vehicles includes those which remain in orbit for a day or longer and the vehicles that might be used to re-supply orbiting vehicles with relief crews, food and other expendables. Since the vehicles proposed are those which might be made operational in the 1965 - 1970 time period, they are limited to those which can be assembled on the earth and propelled into space as a unit. It is believed that it will become feasible to send up re-supply vehicles to satellites; but, the assembly of large satellites in space will be only in the exploratory state in this time period. Prior to proof of the feasibility of mating satellites to proof of the feasibility of mating satellite sna resuply vehicles in space, there will be applications for manned satellite vehicles. Vehicles with satellite periods of 14 days and one month have been configured.	BOEING CO SEATTLE WA	[Pederson, R. A.]	380	[D7-1048-VOL- 3,ARDC-TR-59-72 VOL-3]	[TR-59-72-VOL- 3,ARDC]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
ADA324015	From War to Peace: A History of Past Conversions,	1/1/1993	U	[A - 01]	In response to the end of the Cold War, the United States is undertaking a major reduction in resources committed to national security. Defense reductions have occurred three other times during the past half century. This paper describes those drawdowns for the purposes of placing today's reductions in historical perspective and benefiting from prior successes. We summarize our findings below.	LOGISTICS MANAGEME NT INST BETHESDA MD	[Stewart, William G., Jr]	75	[LMI-DC201R2]	[DCC]	Not Available	Not Available
ADA632097	Joint Force Quarterly. Issue 57, 2nd Quarter 2010	4/1/2010	U	[A - 01]	Not Available	NATIONAL DEFENSE UNIV FORT MCNAIR DC	[Gurney, David H.]	149	Not Available	[NDU]	Approved for public release; distribution is unlimited.	Journal
ADA396443	Proceedings of the NASA- University Conference on the Science and Technology of Space Exploration, Volume 2	11/1/1962	U	[A - 01]	This volume consists of the research papers presented at the NASA-University Conference on the Science and Technology of Space Exploration, held in Chicago, Illinois, November 1-3, 1962.	NATIONAL AERONAUTIC S AND SPACE ADMINISTRA TION WASHINGTO N DC	Not Available	523	[NASA-SP-11]	[NASA]	Not Available	Conference proceedings

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA520566	Development of Novel Vaccines and Therapeutics Using Plant- Based Expression Systems	4/1/2010	U	[A - 01]	The primary focus of this award is to support the development of the Owensboro Cancer Research Program. Projects include the development of the soybean peptide lunasin as a chemoprevention agent; the development of the antiviral proteins griffithsin and actinohivin; and functional analysis of genes important for embryonic stem cell development and differentiation into neuronal stem cells. The development of lunasin as a chemoprevention agent and/or therapeutic is now at the point where preclinical studies can be started as a prelude to potential clinical trials. The development of griffithsin has been significantly advanced, particularly with respect to indications other than HIV. It is anticipated that preclinical studies of griffithsin will be largely completed during the next two years. It is anticipated that the utility of actinohivin as an antiviral microbicide will be clearly delineated over the next year. Although the stem cell is the most basic project being supported, it has significant relevance to developing methods for controlling the differentiation of neuronal stem cells from embryonic stem cells. Specific product oriented research will be initiated when a clear target emerges from this preliminary work.	OWENSBORO MEDICAL HEALTH SYSTEM KY	[Davis, Keith R.]	71	Not Available	[USAMRMC]	Approved for public release; distribution is unlimited.	Annual rept. 15 Mar 2009- 14 Mar 2010
AD1030441	Creating a New Military Service: Historical Precedents	6/1/2016	U	[A - 01]	This paper examines the defense organizational responses to the emergence of air and space as warfighting domains and, using these experiences as points of comparison, applies the same logic to consider the question: Should the Department of Defense create an independent US Cyber Force? The author determines that the Army Air Forces had achieved de facto independent status within the War Department by 1942, but airpower advocates continued to press for separation to more effectively advocate for budget share.	AIR UNIVERSITY, School of Advanced Air and Space Studies MAXWELL AIR FORCE BASE United States	[Hyland,M atthew]	106	Not Available	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA620699	Quality	3/1/2015	U	[A - 01]	This thesis examines positive tools and techniques accessible and helpful to	NAVAL	[Perry,	91	Not Available	[NPS]	Approved for	Master's
	Initiatives in				improving quality of the Reusable Launch Vehicle (RLV). Over the last three decades,	POSTGRADUA	Derick I.]				public	thesis
	the				NASA has directly been involved in developing modern and technologically improved	TE SCHOOL					release;	
	Commercial				RLVs. The technologies were projected to facilitate cheaper access to orbital space, as	MONTEREY					distribution is	
	Development				evidenced by its past X-programs and space launch initiatives. Different private firms	CA SPACE					unlimited.	
	of Reusable				have attempted and are still attempting to develop new RLVs for orbital space	SYSTEMS						
	Launch				applications. The large development expenses of these kinds of systems, coupled	ACADEMIC						
	Vehicles				with the downturn of the Low Earth Orbit market, have made development of RLVs,	GROUP						
					in particular by the commercial sector, increasingly difficult. For these reasons, most							
					commercial space transportation firms have shifted their focus toward suborbital							
					market opportunities, where the technical challenges are lower and market entry is							
					less expensive. This thesis identifies techniques within Lean Aerospace Initiative that							
					are employed by market players today and also best suited for the RLV effort.							
					Additionally, this thesis provides a historical perspective of both RLV development							
					efforts within the government and industry, as well as origins of modern quality							
					teachings to establish a universally accepted foundation of knowledge, upon which							
					further examination can be based.							
ADA493413	Optimal Re-	12/1/2008	U	[A - 01]	The Air Force's Prompt Global Reach concept describes the desire to have a capability	AIR FORCE	[Karasz,	103	[AFIT/GA/ENY/08-	[AFIT/GAE/ENY]	Approved for	Master's
	Entry				to reach any target within a 9000 nautical mile radius within two hours of launch. To	INST OF TECH	William J.]		D01]		public	thesis
	Trajectory				meet this objective, much effort is being devoted to hypersonics and re-entry	WRIGHT-					release;	
	Terminal State				vehicles. Given the limited maneuverability of hypersonic vehicles, computational	PATTERSON					distribution is	
	Due to				modeling is used to generate trajectories before launch to strike intended targets. In	AFB OH DEPT					unlimited.	
	Variations in				addition to endpoint (target) constraints, additional waypoints may constrain the	OF						
	Waypoint				trajectory. This research finds the optimal trajectory which satisfies the endpoint and	AERONAUTIC						
	Locations				waypoint constraints, and then investigates where else the vehicle can go while still	S AND						
					meeting the mission objectives and the penalty for making such maneuvers. The	ASTRONAUTI						
					result of this research is a direct numerical solution technique for mapping the	CS						
					sensitivity of the terminal state as a function of additional waypoint location. Multiple							
					cases are presented including a simple endpoint-to-endpoint scenario and a waypoint							
					included scenario, with a Gauss pseudospectral solver as the direct numerical solver.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0878195	Economic Impact of Military Base Closings. Volume I. Adjustments by Communities and Workers,	4/1/1970	U	[A - 01]	The study deals with the economic effects of a specific series of actions to reduce, consolidate, or terminate activities at military installations in the United States as announced by the Secretary of Defense on November 18, 1964. Actions to terminate or reduce activities at military installations are being undertaken on a continuing basis by the Secretary of Defense. The reference 1964 Announcement, however, was sweeping and dramatic in its implications. Eighty domestic bases were included and the number of civilian positions affected amounted to over 80,000about four-fifths to be abolished another fifth to be transferred to other installations. The actions portended by the Announcement. Because the actions covered by the 1964 Announcement constitute the kind of comprehensive reduction in activities at military bases which might occur under a disarmament agreement, this information is particularly relevant.	KANSAS UNIV LAWRENCE	[Daicoff, Darwin W.,McClug gage, Marston M.,Warrine r, Charles K.,Olsen, Ronald R.]	288	[ACDA/E-90]	[ACDA]	Approved for Public Release;Distri bution Unlimited	Not Available
ADA387782	Why and Whither Hypersonics Research in the US Air Force	12/1/2000	U	[A - 01]	This report summarizes the deliberations and conclusions of the 2000 Air Force Scientific Advisory Board (SAB) study on Why and Whither Hypersonics Research in the US Air Force. In this study the committee describes the operational requirements of a hypersonic system and presents a research program for air breathing hypersonics to meet the operational requirements. We define a program resulting in an operational air breathing hypersonic space launch system in about 2025. This program includes several exit ramps and potential options. The exit ramps would lead to either an operational rocket-based reusable launch system or continuation of the expendable course the Air Force is currently on. A Red Team Panel was part of the study team and provides alternatives to the air breathing hypersonic systems to meet the operational requirements. The study results represent an outstanding collaboration between the scientific and operational communities and among government, industry, and academia.	SCIENTIFIC ADVISORY BOARD (AIR FORCE) WASHINGTO N DC	[Fuchs, Ronald P.,Chaput, Armand J.,Frost, David E.,McMaha n, Tom,Vesel y, David L.]	209	[SAB-TR-00-03]	[SAB]	Not Available	Final rept. Jan-Nov 2000
AD0406236	CRYOGENIC TANKS DEVELOPMEN T. (DYNA SOAR)	5/1/1963	U	[A - 01]	Two test programs were conducted to obtain basic structural data on the use of 2219- T6E46 aluminum for the X-20 cryogenic storage tanks. The following summarizes the test results: (1) Biaxial strength of 2219-T6E46 aluminum at temperatures of -395 F. and lower at 91,000 psi (min.) compared to uniaxial strengths of 88,200 psi (min.) at - 423 F. (2) Ductile failures occurred in all four test tanks at temperatures of -320 F. and -395 F. (3) A low factor, prototype liquid nitrogen tank failed at a pressure of 2650 psi after 252 pressure cycles at 1000 = 50 psi.	BOEING CO SEATTLE WA	[Matteran d, D. L.]	64	[D2-80092]	[ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0423442	PSYCHOLOGIC AL ASPECTS OF EXTENDED MANNED SPACE FLIGHT	9/1/1963	U	[A - 01]	As is the case with virtually all the other scientific disciplines, the adequacy of available psychological knowledge and principles will receive a severe test from the demand attendant to the development of a successful mission to Mars. A sampling of some of the revelant information available in psychology is offered and areas that will require further attention before predictions in the behavioral area for the Mars trip can be made with confidence are identified. A twofold thesis is developed. First, psychology has legitimate and important contributions to make to the Mars trip. Second, the advantages, however, are mutual; i.e., it is confidently predicted that participation in this venture will force psychologists to reexamine their traditional principles and theoretical positions and will stimulate an attack on the basic issues of human behavior with refreshing insights gained from new points of vantage.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Christense n, Julien M.]	36	[AMRL-TDR-63- 81]	[TDR-63- 81,AMRL]	Approved for public release; distribution is unlimited.	Not Available
ADA451291	Cost Comparison Of Expendable, Hybrid and Reusable Launch Vehicles	3/1/2006	U	[A - 01]	This study compares the developmental, production, and maintenance costs (DPM) of twostage- to-orbit (TSTO) expendable (ELV), hybrid (HLV), and reusable (RLV) launch systems. This comparison was accomplished using top level mass and cost estimating relations (MERs, CERs). Mass estimating relationships were correlated to existing launch system data and ongoing launch system studies. Cost estimating relations were derived from Dr. Dietrich Koelle's 'Handbook of Cost Engineering for Space Transportation Systems'. Hybrid launch vehicles appear to be preferable if current or modest increases in launch rates are projected while reusable launch vehicles appear preferable for large projected increases in launch rates.	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEME NT	[Gstattenb auer, Greg J.]	118	[AFIT/GSS/ENY/0 6-M06]	[AFIT]	Approved for public release; distribution is unlimited.	Master's thesis
ADA954762	100 Companies Receiving the Largest Dollar Volume of Prime Contract Awards, Fiscal Years 1961, 1962	1/1/1962	U	[A - 01]	Tables show net awards to the 100 companies and their applicates which receive the largest volume of military prime contracts awards during the fiscal year. The tables show rank, company name, millions of dollars, precent of the U.S. total and cumulative of U.S. total.	WASHINGTO N HEADQUARTE RS SERVICES (DOD) DC DIRECTORATE FOR INFORMATIO N OPERATIONS AND REPORTS	Not Available	27	[DIOR/P01- 61/62,P01]	[DIOR]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA441321	Science,	9/1/1970	U	[A - 01]	The nature of warfare has always been largely determined by contemporary	AIR FORCE	[Wright,	228	Not Available	[AFHSO/DC]	Approved for	Rept. for 8-9
	Technology,				technology. Instances of technological change undertaken for the sake of military	HISTORICAL	Monte				public	May 1969
	and Warfare.				advantage have also been relatively common in history. The relationships between	STUDIES	D.,Paszek,				release;	
	Proceedings of				science and warfare, however, have been much more variable and ambiguous. The	OFFICE	Lawrence				distribution is	
	the Military				papers and discussions of the Symposium investigate selected aspects of the complex	WASHINGTO	J.]				unlimited.	
	History				relationships between science and technology on the one hand, and warfare on the	N DC						
	Symposium				other, from the Renaissance to the 1960s. In the first session, Professor Hall takes up							
	(3rd) Held at				in turn the possible areas of interaction between science (exterior ballistics,							
	the United				engineering, explosives, mechanics, and metallurgy) and military technology (edge							
	States Air				weapons, cannons and mortars, fortification and siege warfare, and small arms) in							
	Force				the 15th, 16th, and 17th centuries. The notion that science is pursued for utilitarian							
	Academy				ends, Hall finds, is an unhistorical projection backward from our own age." He							
	(Colorado				excludes navigation and medicine from consideration, because they were civil as well							
	Springs,				as military concerns. In spite of the pleading of certain early propagandists of the							
	Colorado) on 8				Empire of Man over Nature," and in spite of the elaborate sketches of military							
	9 May 1969				engines in Leonardo's notebooks, military technology was largely innocent of							
					scientific method. The developments in fortification required mathematical skills, but							
					nothing more than elementary geometry and arithmetic. Mathematicians studied the							
					ancient problem of the trajectory of projectiles, but their efforts affected neither the							
					design nor the use of guns. The range tables they provided were not even usable with							
					the guns of the time. The solution of the trajectory problem would await Benjamin							
					Robins and the 18th century. Professor Hale supports Hall's conclusion with three							
					arguments. In the 16th and 17th centuries, armies were so organized as to preclude							
					any productive contact with the worlds of science and technology.							
										<u> </u>		
Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
-----------	--	-------------	--------	--------------	--	--	---	-------	----------------------------	----------------	---	---
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA377346	Shooting Down a "Star" Program 437, the US Nuclear ASAT System and Present-Day Copycat Killers	4/1/2000	U	[A - 01]	Not Available	AIR UNIV MAXWELL AFB AL CENTER FOR AEROSPACE DOCTRINE RESEARCH AND EDUCATION	[Chun, Clayton K.]	99	Not Available	[CADRE]	Not Available	CADRE paper no. 6
AD0349214	PROCEEDINGS OF SYMPOSIUM ON AEROELASTIC AND DYNAMIC MODELING TECHNOLOGY. SEPTEMBER 1963, DAYTON, OHIO	3/1/1964	U	[A - 01]	The papers were divided into the following sub-groups: theory and design, model testing techniques, dynamic loads and aeroelastic applications, and structural design applications, with two classified sessions on aerospace vehicle applications and aircraft applications. In this volume are the following papers: Dynamic stability equipment and techniques for testing at hypersonic speeds, An inertia-compensated balance technique for wind tunnel measurement of launch vehicle random buffet forces, The effect of model scale on rigid-body unsteady pressures associated with buffeting, Flutter model approaches for high performance aircraft, and The use of dynamically similar models for the determination of transient loads on the LASV.	RESEARCH AND TECHNOLOGY DIV BOLLING AFB DC	[Ward, L. K.,Stahle, C. V.,Coe, Charles F.,Stevenso n, J. R.,Brock, B. J.,Musson, B. G.,Urban, R. H.,Stouffer , C. G.,Silver, W.]	171	[RTD-TDR-63- 4197-PT-2]	[WL]	Approved for public release; distribution is unlimited.	Conference Proceedings, 23-25 SEP 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0405722	OPERATIONAL ANALYSIS REPORT OF THE MICROWAVE COMMAND GUIDANCE SYSTEM	5/1/1962	U	[A - 01]	The operational capabilities and status of the Microwave Command Guidance (MCG) System with respect to its past experiences and its possible future applications in vehicle radar tracking and control are defined. Accuracy and reliability considerations are included. The technical characteristics of the MCG System and how they are applied to system requirements in the area of missile and drone flight control and recovery are described. Advanced techniques and concepts are described and applied to particular applications such as: service and Q-type drones, Navalsiles and unmanned targets, Army surveillance and reconnaissance, glider and Dyna Soar vehicle recoveries, booster and capsule recoveries, and range instrumentation and tracking concepts as applied to space and orbital vehicles. Advanced data transponder packaging and circuitry information is presented, based on experience gained with the Transponder Set AN/APW-22(XY-1).	SPERRY PHOENIX CO AZ	Not Available	133	Not Available	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0262746	ON THE IMPLICATIONS OF ELECTRON DIFFUSION THROUGH A HYPERSONIC SHOCK FRONT	5/1/1961	U	[A - 01,23]	Recent experiments disclosed electrical effects well ahead of an advancing shock front. Certain of these effects were attributed to the diffusion of electrons through the shock front from the ionized region behind it. The diffusion hypothesis is examined in terms of a simple heuristic model, in which the diffusion is assumed to take place from a plane electron source moving with the shock velocity. The predictions of this model are generally consistent with the available experimental evidence. It is shown that the transient behavior of the precursor electron distribution is capable of increasing the Doppler shift of an electromagnetic wave reflected from the shock. Although the transient decays rapidly after the creation of the shock, there are conditions under which it should last long enough to allow an experimental check of this effect.	BROWN UNIV PROVIDENCE RI	[Wetzel, Lewis]	66	[SR-AF-4561- 11,AFCRL-582]	[582,AFCRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0403112	QUARTERLY INDEX AND ABSTRACTS OF TECHNICAL DOCUMENTA RY REPORTS	1/1/1962	U	[A - 01]	Not Available	AIR FORCE SYSTEMS COMMAND WASHINGTO N DC	Not Available	229	Not Available	[AFSC]	Approved for public release; distribution is unlimited.	Quarterly rept. no. 4

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0445596	SIMULATION IN MODERN AERO-SPACE VEHICLE DESIGN	4/1/1961	U	[A - 01,53]	A review is presented of the simulation facilities commonly used in the United States. An attempt is made to classify these facilities and to understand how and why they are needed and came into being, and how they are used. An indication of the use of flight control system simulators in the design of a vehicle in the United States is given. Some thoughts on the philosophy of use of simulation are offered and conclusions presented.	ADVISORY GROUP FOR AERONAUTIC AL RESEARCH AND DEVELOPME NT PARIS (FRANCE)	[Westbroo k, Charles B.]	83	[AGARD-366]	[AGARD]	Approved for public release; distribution is unlimited. NATO.	Not Available
AD0742654	Military Strategy: Third Edition. A Translation Analysis, and Commentary and Comparison with Previous Editions	1/1/1971	U	[A - 01]	The analysis of the third edition of Sokoovskiy's Military Strategy compares it to the first, published in 1962, and the second, 1963. The editor compares the changes through the editions and comments on change significance and what may be the more striking significance of the continuity in many major areas of consideration. An understanding of the Soviet strategy, as represented by Sokolovskiy's book would seem essential to enable a strategic planner to properly assess the strategic requirements of the United States.	STANFORD RESEARCH INST MENLO PARK CA STRATEGIC STUDIES CENTER	[Sokolovski i, V. D.]	520	[SSC-TN-8974- 29]	[OCRD]	Approved for public release; distribution is unlimited.	Not Available
AD0644844	AN ANALYSIS OF MAJOR SCHEDULING TECHNIQUES IN THE DEFENSE SYSTEMS ENVIRONMEN T	10/1/1966	U	[A - 01,23]	The Memorandum has three main objectives: (1) to describe simply and clearly the major characteristics and operating features of each of the more important scheduling techniques currently available to military management; (2) to compare and evaluate the techniques in terms of their applicability to the acquisition of weapon systems; and (3) to define areas for further research leading to improvement in the scheduling state of the art.	RAND CORP SANTA MONICA CA	[Holtz, J. N.]	90	[RM-4697-PR]	[SAFSP]	Availability: Document partially illegible.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA213795	Flight Test Techniques	1/1/1989	U	[A - 01]	The Flight Mechanics Panel believes that it is vitally important that the flight test community meet regularly so that new techniques for flight test, instrumentation and data analysis can be disseminated to ensure that safe, efficient and timely testing is accomplished. The number of new systems being submitted for airborne trials and testing is continuously increasingly. The major development and test challenge common to most current and future aircraft is that of avionic/software subsystems development and integration. New systems and application include programmable signal process radars, integrated flight, fire and propulsion systems. The acquisition and processing of large quantities of avionics multiple data is a challenge that must be met. Keywords: Flight tests; Flight stimulation; Avionics; Computer systems programs; Data processing; Cost engineering.	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPME NT NEUILLY- SUR-SEINE (FRANCE)	Not Available	421	[AGARD-CP-452]	[AGARD]	Approved for public release; distribution is unlimited.	Conference proceedings
AD0282004	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	12/1/1962	U	[A - 01,23]	Military requirements, specifications, and design are given for the Dyna-Soar ejection seat and survival system.	BOEING CO SEATTLE WA	Not Available	34	Not Available	[WL*]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0408777	PROCEEDINGS OF SYMPOSIUM ON STRUCTURAL DYNAMICS UNDER HIGH IMPULSE LOADING	5/1/1963	U	[A - 01]	The symposium proceedings on structural dynamics under high impulse loading are proceedings divided into four major technical areas: mechanical properties of solids, wave propagation phenomena and structural response, hypervelocity impact, fracture phenomena. The session presentations point out the problems which exist in the development of reliable aero space vehicle structures. These structures, or bital and otherwise, may be subjected to violent impulsive loads. These loads may come from col lision with meteoroids, man made pellets or other energy sources. In each case the loads are of enormous magnitude and extremely short dura tion. They are several orders of magnitude more intense than loads experienced by structures in the familiar earth-bound environment.	AIR FORCE FLIGHT DYNAMICS LAB WRIGHT- PATTERSON AFB OH	Not Available	410	[ASD-TDR-63- 140]	[TDR-63-140,ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0408956	SWITCHING PROPERTIES OF FERRITES AND GARNETS	11/1/1962	U	[A - 01]	Results of an experimental and theoretical study of the switching properties of ferrimagnetic oxides are presented. Two terms - the switching time, the time required by the magnetization to reverse, and the switching parameter, S sub W, the inverse slope of the curve of the variation of the reciprocal switching time with the applied fieldch describe these properties are the prime considerations of this thesis.	HARVARD UNIV CAMBRIDGE MA GORDON MCKAY LAB	[Rubinstein , Harvey]	251	[SR-6-S-2,AFCRL- 62-954]	[62-954,AFCRL]	Approved for public release; distribution is unlimited.	Not Available
AD0439449	Heat Shield Concepts and Materials for Reentry Vehicles.	7/15/1963	U	[A - 01]	The purpose of this paper is to discuss thermal protection systems and the Thermantic Structure developed by Aeronca Manufacturing Corporation, to withstand temperatures in excess of 3000 F for extended periods of time (approximately one hour) and to resist severe noise and dynamic loads associated with space vehicle flight. The heat shield, made of a low density ceramic foam reinforced with a honeycomb cell structure, is capable of maintaining an internal temperature suitable for the survival of both man and sensitive equipment. The thermantic structure uses a conventional load bearing panel fabricated from alloy sheets brazed to stainless steel honeycomb and this panel brazed to the ceramic honeycomb reinforcement. This ''Astroshield'' concept offers the combined advantages of high temperature resistance, lightweight, thermal shock resistance, chemical stability and high strength. (Author)	AERONCA MFG CORP MIDDLETOW N OH	[Niehaus, W.]	68	Not Available	[USAF]	Not Available	Not Available
ADA035432	Defense Systems Management Review. Volume I, Volumber 1. Winter 1976.	12/15/1976	U	[A - 01]	The purpose of this review is to disseminate information regarding new developments and effective actions taken relative to the management of defense systems programs and defense systems acquisition. This issue includes the following articles: The Congressional Budget and Impoundment Control Act of 1974 Implications to DOD; Technological Progress and Life Cycle Support; Training with Industry; What Happened to PERT; Industry Management of Defense vs Commercial Programs.	DEFENSE SYSTEMS MANAGEME NT COLL FORT BELVOIR VA	[Ammerma n,Robert H. , Jr.,Dunne,E dward J.,Ewart,Ro bert F.,Nanney, Donald M.,Francis, James A.]	73	Not Available	Not Available	Not Available	Quarterly rept. 1 Sep 76-1 Jan 77,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number	1		Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0801787	COMPILATION OF DATA ON CREW EMERGENCY ESCAPE SYSTEMS	9/1/1966	U	[A - 01,23]	A comprehensive group of appropriate open ejection seats, encapsulated ejection seats, cockpit pod capsules, separable nose capsules, and subsystems are described. The descriptions provide information on items such as initiation, crew positioning and restraint, emergency pressurization and oxygen, seat-man separation, capsule separation, rocket motors, rocket catapults, stabilization, deceleration, recovery parachute, landing impact attenuation, flotation, location aids, and survival equipment or provisions. Information is also provided on escape system performance, tests, accelerations experienced, stability characteristics, trajectories, escape time sequence, envelope dimensions, weights, production or development status, and projected system improvements.	BOEING CO RENTON WA	[Bull, John O.,Serocki, Edward L.,McDowe II, Howard L.]	356	[D6-60001- 1,AFFDL-TR-66- 150]	[TR-66- 150,AFFDL]	Availability: Document partially illegible.	Final technical rept. Feb 1965-Aug 1966
AD0421694	LEADING EDGES DEVELOPMEN T-DYNA SOAR	9/3/1963	U	[A - 01]	Not Available	BOEING CO SEATTLE WA	[Bowers, D. A.,Esch, P. G.]	402	[D2-80085]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
AD0404850	AIR FORCE FLIGHT CONTROL AND FLIGHT DISPLAY INTEGRATION PROGRAM	2/1/1963	U	[A - 01,23]	The Martin Company provided human engineering support to a number of Air Force programs being conducted under Project 6190. The extent of task activities were broad in scope and quite diverse in subject matter. Members of the group were involved in research projects, consulting activities, reviews of literature and methodological development. Each of these kinds of tasks are briefly reviewed and the topics investigated are discussed. The subject matter of these tasks in part consisted of controller studies, display evaluations, display development, performance and opinion measurement, and program planning.	MARTIN CO BALTIMORE MD	[Gainer, C. A.]	246	[ER-12905]	[AMRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Final summary rept., 1 Mar 1962-28 Feb 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA456851	Reflections of	8/1/2006	U	[A - 01]	In the final decade of the 20th century, this nation focused attention on the noble	AIR UNIV	[McLucas,	371	Not Available	[AU]	Approved for	Monograph
	a Technocrat:				and courageous men and women who, 50 years earlier, had participated in World	MAXWELL	John				public	
	Managing				War II. Thanks to a best-selling book by newscaster Tom Brokaw, the Americans who	AFB AL	L.,Alnwick,				release;	
	Defense, Air,				came of age in the 1930s and early 1940s became known as "the greatest		Kenneth				distribution is	
	and Space				generation." Many of those who fought or supported the war effort humbly		J.,Benson,				unlimited.	
	Programs				disavowed such a superlative. No one, however, can deny the achievements of those		Lawrence					
	during the				citizens who grew up in the hard times of the Great Depression. These young people		R.]					
	Cold War				helped win the largest conflict in world history and went on to make further							
					contributions to this country during the long Cold War that followed. Despite all of its							
					death and destruction, World War II accelerated the growth of scientific knowledge							
					and the march of technology. As one consequence of this, the military services in							
					partnership with the nation's universities trained many young Americans, especially							
					those with a background in science and engineering, to operate and maintain the							
					new technologies so important to the war effort. Others contributed as civilian							
					scientists and engineers. After the war, many veterans who had been exposed to							
					these new technologies took advantage of the G.I. Bill to seek advanced degrees in							
					science, engineering, mathematics, and related disciplines. When the Cold War set							
					off a prolonged arms race and space competition with the Soviet Union, this well-							
					educated cadre of the greatest generation was ready to provide the technical and							
					managerial expertise needed to meet the Soviet challenge. Combining patriotism							
					with a desire to be on the cutting edge of technology, these "technocrats" played key							
					roles in the defense industry, university and federal research centers, the military							
					services, and other government agencies. Dr. John L. McLucas was one of the finest							
					examples in this group of influential public servants. This monograph is an							
					autobiography of Dr. John L. McLucas,							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number		-	Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA546585	Toward a Theory of Spacepower. Selected Essays	1/1/2011	U	[A - 01]	Over a century ago, the rapid expansion of global overseas trade brought about by the advent of improved steam propulsion and advances in ship design and construction posed new national policy and security questions for the United States. First, to what degree did American economic prosperity depend upon being a major active participant in maritime commerce? Second, what were the naval implications of such action with respect to the extension and defense of important, if not vital, American interests? Third, what role should the U.S. Government play in the promotion of maritime commercial activity and the creation of the naval forces required to protect American overseas trade? And fourth, what changes, if any, were required with respect to the direction of American foreign policy? In 1890, Captain Alfred Thayer Mahan, a serving officer in the U.S. Navy, published The Influence of Sea Power upon History, 1660-1783. This book provided a comprehensive statement about maritime commerce, naval power, government policy, and international politics that became the theoretical point of departure for almost all discussion of what was widely regarded to be the most important national security problem of the day, both in the United States and around the world. Today, the importance of space as a venue for economic and military activity in certain respects resembles the conditions of maritime commerce and naval power in the late 19th century. These circumstances prompt two questions: first, is a history-based exploration of prospects and possibilities of spacepower, in the manner of Mahan, a viable intellectual proposition? Second, does his work contain ideas that are applicable to spacepower or at least suggest potentially productive lines of inquiry? Addressing these issues, however, requires a sound foundationnamely, an accurate understanding of Mahan's major arguments and his manner of reasoning.	NATIONAL DEFENSE UNIV WASHINGTO N DC INST FOR NATIONAL STRATEGIC STUDIES	[Lutes, Charles D.,Hayes, Peter L.,Manzo, Vincent A.,Yambric k, Lisa M.,Bunnn, M. E.]	595	Not Available	[NDU/INSS]	Approved for public release; distribution is unlimited.	Not Available
AD0428970	RADIATION PHYSICS: ITS IMPACT ON INSTRUMENT ATION	9/1/1963	U	[A - 01]	Presented is an argument for exploiting radiation physics for the solution of problems in the instrumentation area. A brief review is given of basic physics connected with radiation. Several problems in the flight control area are stated and possible solutions presented using radiation physics concepts. Three of these problems, low altitude altimetry, high altitude altimetry, and fuel mass measurement, are examined in detail and experimental and analytical results given. A program philosophy and the establishment of an in-house experimental facility for exploitation of radiation physics are also reported.	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Beavin, Rudy C.]	27	[ASD-TDR-63- 697]	[TDR-63-697,ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA525452	Following the	3/1/2010	U	[A - 01]	From time to time, people ask about my Air Force career. These conversations led me	AIR UNIV	[Leavitt,	686	Not Available	[AU-AFRI]	Approved for	Not Available
	Flag: An Air				to believe most Americans know too little about the many challenges and	MAXWELL	Lloyd R.]				public	
	Force Officer				responsibilities in an Air Force career. Sure, the public has TV and sees "smart	AFB AL AIR					release;	
	Provides an				bombs" dropped and missiles launched, or goes to movies that mimic aerial combat,	FORCE					distribution is	
	Eyewitness				or suffers through a TV drama with a Dr. Strangelove-type officer committing treason	RESEARCH					unlimited.	
	View of Major				or another heinous crime. Given these snapshots of Air Force activities, true and	INST						
	Events and				fictional, do they really portray the Air Force? Would going back 50 years and tracing							
	Policies during				the path of progress by citing personal experiences and observations along the way							
	the Cold War				paint a more authentic picture? Perhaps an individual can describe with some degree							
					of accuracy what is personally experienced. Beyond that, conjecture, opinion, and							
					hearsay take over. Friends suggested my personal experiences might interest							
					veterans who may have shared similar experiences, as well as persons with or							
					without a military background who have a historical interest in these same events or							
					young people who might be interested in a military career. In response to their							
					suggestions, I have written this book but claim no special insight, talent, or skill that							
					was denied my contemporaries. Mybest credential is simply the coincidence of							
					having been in a variety of different jobs, in combat and peacetime, when important							
					and interesting changes were happening during the Cold War. The book focuses on							
					my own experiences and is biased in that regard. What I have attempted to do is							
					open up the period of history called the Cold War by tracing my personal							
					experiences. In my opinion, the biggest mistake a career-oriented person can make is							
					staying in one job and ignoring other opportunities for fear of failure. For that reason,							
					I volunteered whenever an opportunity was offered. It would be misleading to							
					portray my career as unblemishedno failures, no mistakes, no disappointments.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0483690	APPLICATION AND EVALUATION OF CERTAIN ADAPTIVE CONTROL TECHNIQUES IN ADVANCED FLIGHT VEHICLES. VOLUME I. G. E. SELF- ADAPTIVE FLIGHT CONTROL SYSTEM	7/1/1961	U	[A - 01,23]	The application and evaluation of certain adaptive control techniques were studied as applied to advanced vehicles of the X-15 and Dyna-Soar type. The general concept of adaptive control through the use of reference models is discussed, and particular models are evaluated based on the present status of airplane handling qualities research. The G. E. System is applied to the problem of controlling the longitudinal short-period motions of the X-15 airplane during re-entry. The first treatment of the problem is rather general, and uses essentially linear techniques to investigate the reference model concepts, selection of system parameters, responses to command inputs and gusts, effect of basic airplane static and dynamic instability, effect of sensor dynamics, and dynamics of the adaptive loop. Then a more detailed study is made of certain problem areas, including the response to inputs at the actuator valve, effect of actuator non-linearities, frequency sensor characteristics, and the effect of noise in the primary sensor, in this case a rate gyro.	Autnor CORNELL AERONAUTIC AL LAB INC BUFFALO NY	Autnors [Schuler, John M.,Chalk, Charles R.,Schelhor n, Arno E.]	171	[ASD-TR-61-104- VOL-1]	[TR-61-104-VOL- 1,ASD]	Approved for public release; distribution is unlimited. Document partially illegible.	Technical rept.
ADA523339	Catalog of Air Force Weather Technical Documents 1941-2008	6/19/2008	U	[A - 01]	This catalog lists unclassified technical documents produced by or for the Air Force Weather Agency and its subordinate units from 1941 through 2008. Documents listed include technical reports, technical notes, data summaries, project reports, special studies, and forecaster memos along with availability data and ordering instructions.	AIR FORCE WEATHER AGENCY ASHEVILLE NC AIR FORCE WEATHER TECHNICAL LIBRARY	Not Available	186	[AFWTL/TC- 06/001-REV]	[AFWTL]	Approved for public release; distribution is unlimited.	Catalog
AD0407546	PREPARATION AND CHARACTERIZ ATION OF ULTRAPURE POLYSTYRENE SAMPLES	1/1/1963	U	[A - 01,23]	The development of a relatively large-scale inert gas reactor for use in the preparation of polystyrene via an anionic polymerization is de scribed. The polymers were prepared with predictable molecular weights and very narrow molecular weight distributions. Methods used to characterize and purify the samples are discussed. Ultracentrifuge data are presented.	CARNEGIE- MELLON UNIV PITTSBURGH PA MELLON INST OF SCIENCE	[Fox, Thomas G.,Wyman, Donald P.]	50	[ASD-TDR-62- 1110]	[TDR-62- 1110,ASD]	Availability: Document partially illegible.	Final rept.

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0603703	X-20 (DYNA- SOAR) LANDING GEAR DEVELOPMEN T AND QUALIFICATIO N PROGRAM,	6/1/1964	U	[A - 01]	A description of the X-20 landing gear and performance requirements are presented. The yielding metal energy absorption system and the all skid concept is discussed. A summary is presented of the 'energy strap' and skid development programs. The qualification program, which had not been initiated at the time of program termination, is discussed, and conclusions and recommendations are presented. (Author)	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OHIO	[HOWARD, H. W.]	41	[SEG-TDR64 17]	[TDR64 17]	Not Available	Not Available
AD0851812	Hypersonic Arbitrary-Body Aerodynamic Computer Program MARK III Version. Volume 2. Program Formulation and Listings	4/1/1968	U	[A - 01,23]	This report describes a digital computer program system that is capable of calculating the hypersonic aerodynamic characteristics of complex three-dimensional shapes. The outstanding features of this program are its flexibility in covering a very wide variety of problems and the multitude of program options available. The program is a combination of techniques and capabilities necessary in performing a complete aerodynamic analysis of hypersonic shapes. These include vehicle geometry generation and description, visual graphics necessary in handling geometry data and in preparing plots of the final aerodynamic data, aerodynamic calculations of surface pressures and skin friction forces, and the integration of these forces to give all aerodynamic coefficients and stability derivatives. The program has been used to study a wide variety of hypersonic vehicle shapes including hypersonic cruise aircraft, air-breathing booster aircraft, blunt lifting reentry bodies, high L/D reentry vehicles, blunt reentry capsules, rocket boosters, reentry warheads and satellite shapes.	MCDONNELL DOUGLAS CORP LONG BEACH CA DOUGLAS AIRCRAFT DIV	[Gentry, Arvel E.,Smyth, Douglas N.]	723	[DAC-61552-VOL- 2]	[AFFDL]	Approved for public release; distribution is unlimited. Document partially illegible.	Final rept.
AD0609169	UTILIZATION OF REFRACTORY METALS ON THE X-20A (DYNA-SOAR)	6/1/1964	U	[A - 01]	The utilization of coated refractory metals as heat shields and leading edges on the X- 20 is discussed. Peculiarities and history of the materials used, designs, developmental tests, and problems are emphasized in this resume. Molybdenum alloys Mo5Ti and Mo5Ti.07Zr, columbium alloy D-36, and silicide coatings are discussed in relation to their applicability and effectiveness in an X-20 re-entry environment. The practicality of a heat- protection system capable of resisting 3000F for long periods of time is demonstrated.	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OH	[Cowie, William]	54	[SEG-TDR64-19]	[TDR64-19,SEG]	Not Available	Rept. for May 1960-10 Dec 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0777585	Quantitative Risk Assessment: A Test Case	3/1/1974	U	[A - 01,23]	Since the requirement for formal risk management in all major development programs, several methodologies have been suggested but few have been implemented with persistence. The Air Force Academy Risk Analysis Study Team suggested that a quantitative risk assessment technique based on network simulation and subjective probability estimates could be used to assess risk in the three primary development variables: cost, schedule, and technical performance. The thesis attempted to determine the feasibility and practicality of applying such a methodology to the A-10 Full Scale Development Program for cost and schedule variables only.	AIR FORCE INST OF TECH WRIGHT- PATTERSONA FB OH SCHOOL OF SYSTEMS AND LOGISTICS	[Amdor, Stephen L.,Kilgore, Roy R.]	132	[GSA/SM/74-1]	[AFIT]	Availability: Document partially illegible.	Master's thesis
AD0268576	THE USE OF ACOUSTIC SCALE MODELS FOR INVESTIGATIN G NEAR FIELD NOISE OF JET AND ROCKET ENGINES	4/1/1961	U	[A - 01]	Analytical and experimental studies have been made to examine the feasibility of using acoustic scale models for near field noise investigations. Analyses show that the important characteristics of noise generation, propagation, and measurement can be scaled. A few deviations from this involve small errors which are negligible in the near field. The most straightforward model duplicates the gas flow parameters of the full scale engine. The validity of such models has been demonstrated by a series of tests for a wide variety of nozzle exit conditions, from turbojet through rocket exhausts, and whether in a free field or in the presence of objects which interfere with the flow, such as shaped nozzles and flame deflectors. It is further determined both analytically and experimentally that models may be simplified without impairing the results of a scaled test. Considerations in simplifying a model include: reduction of the nozzle size; absence or presence of reflecting surfaces; use of fewer than the full scale number of engines; and use of a substitute gas which is different from and at a lower temperature than that in the full scale engine.	BOEING CO SEATTLE WA	[Morgan, Walter V.,Sutherla nd, L. C.,Young, Kenneth J.]	100	[WADD-TR-61- 178]	[TR-61- 178,WADD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0680825	A PORTABLE TEST BATTERY FOR COMPARATIV ELY EVALUATING OPERATOR PERFORMANC E IN FULL- PRESSURE SUIT ASSEMBLIES	10/1/1968	U	[A - 01]	Recommendations for a portable battery of tests to assess human mobility in full- pressure suits are presented. The literature was reviewed to determine the types of instruments and tests employed by prior investigators. Task analyses were performed on three advanced vehicles to determine the body member-movement families most frequently involved. A set of tests and measurements is suggested for those member- movement families found to be most frequently involved in advanced flight. Necessary future steps for realizing the portable battery are suggested. The test battery recommended includes the Purdue Peg Board for finger dexterity, a specially designed apparatus for the strength of various body movements, a single dimension tracking task for various coordination tests, a Leighton Flexometer, and direct measurement devices for range of movement and static anthropology measurements.	APPLIED PSYCHOLOGI CAL SERVICES INC WAYNE PA SCIENCE CENTER	[Siegel, Arthur I.,Lanterma n, Richard S.]	87	[AMRL-TR-68-74]	[TR-68-74,AMRL]	Not Available	Final rept. Jun 1967- Mar 1968
AD0427130	APPLICATION OF AERODYNAMI C LIFT IN ACCOMPLISHI NG ORBITAL PLANE CHANGE	9/1/1963	U	[A - 01]	This study considers the concept of a hypersonic glider-type spacecraft utilizing its aerodynamic maneuvering capability in performing orbital plane change. For lifting vehicles an optimization procedure is developed which defines the proper vehicle attitude, propulsion utilization and sequence of operations to produce the maximum plane change for a given fuel expenditure. The results obtained are compared with the fuel requirements for a pure propulsion (nonlifting) plane change while remaining in orbit. Specifically, the optimum bank angle, angle of attack, entry angle, thrust alignment and thrusting procedures are defined. In addition, the advantages of high L/D vehicles are graphically illustrated. The method is seen to be more efficient than the pure propulsion method, but is found to be far more complex and requires longer times to execute.	AERONAUTIC AL SYSTEMS DIV WRIGHT FIELD OH	[Bell, Roland N.,Hankey, Jr, Wilbur L.]	56	[ASD-TDR-63- 693]	[TDR-63-693,ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0268217	PROPAGATIO N ON MODULATED CORRUGATED RODS	8/1/1961	U	[A - 01]	The velocity of surface-wave propagation on 2 types of axially modulated corugated rods was measured experimentally. Type A has a constant outer diameter and sinusoidally varying slot depth, while in type B the slot depth varies in virtue of a modulated outer diameter. In both cases the measured phase velocity was about 10% less than that for a uniformly corrugated rod with the average slot depth and outer diameter, but agreed within 2% over the frequency range used with the value calculated from an analysis based on the Mathieu equation.	BROWN UNIV PROVIDENCE RI	[Wang, C. C.,Kornhau ser, E. T.]	40	[SR-12,AFCRL- 791]	[791,AFCRL]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0440473	PERSONAL ENVIRONMEN TAL PROTECTION FOR LUNAR AND OTHER SPACE MISSIONS	3/1/1964	U	[A - 01,23]	This report concerns the area of personal environment protection. Some requirements for intravehicular and extravehicular personal protective assemblies for various lunar and other space missions are defined and the problems and criteria of mobility, pressurization, heat and humidity control are discussed. Some developmental possibilities and some areas requiring biomedical research are indicated. The necessity for an Aerospace Environment Test and Research Facility is shown and a design proposal, particularly adapted to the specific requirements of bioastronautics, is discussed.	AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT- PATTERSON AFB OH	[Schueller, Otto]	24	[AMRL-TDR-64- 18]	[AMRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
ADA216963	RAND's Role in the Evolution of Balloon and Satellite Observation Systems and Related U.S. Space Technology	9/1/1988	U	[A - 01]	This report, prepared as part of RAND-sponsored research, was originally intended to commemorate the fortieth anniversary of Project RAND (now Project AIR FORCE), a long-term research effort that began in April 1946 with a study of the utility and feasibility of space satellites. RAND research on space technology continued, for the next two decades, to emphasize the primacy of photoreconnaissance and the communication to earth of remotely sensed data. Without the ability to observe and communicate, other applications of space technology appeared infeasible. As a direct consequence of this continuing focus on the potential of space for reconnaissance and arms control verification, the writing and security clearance of the present report have not been a simple matter either for the authors or the U.S. government. (KR)	RAND CORP SANTA MONICA CA	[Davies, Merton E.,Harris, William R.]	135	[RAND/R-3692- RC]	[RAND]	Approved for public release; distribution is unlimited.	Research rept.
AD0809980	ADVANCED RE- ENTRY SYSTEMS HEAT- TRANSFER MANUAL FOR HYPERSONIC FLIGHT	10/1/1966	U	[A - 01]	An advanced re-entry systems heat transfer handbook for hypersonic flight has been developed using aerothermodynamic prediction methods developed during the X-20A (Dyna Soar) Program. It contains (1) design procedures for computing aerodynamic heating rates to re-entry vehicle configurational elements, (2) discussion on differences between aerodynamic heat transfer and pressure distribution observed in present day wind tunnels and those which would occur in actual free flight, (3) wind tunnel to flight extrapolation factors, (4) simplified expressions for estimating stagnation point and swept cylinder turbulent stagnation line heating rates, and (5) graphs for rapid calculation of heating rates and extrapolation to flight factors. The information presented is applicable to complex maneuverable vehicles as well as ballistic bodies.	BOEING CO SEATTLE WA	[Thomas, Alfred C.,Perlbach s, Andrew,Na gel, A. L.]	235	[D2-84029- 1,AFFDL-TR-65- 195]	[TR-65- 195,AFFDL]	Approved for public release; distribution is unlimited.	Final rept. Oct 1964- Aug 1965

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0400921	A PORTFOLIO OF EXPERIENCE IN REFRACTORY METAL PROTECTIVE SYSTEMS RESEARCH	3/1/1963	U	[A - 01,23]	Not Available	AEROSPACE CORP EL SEGUNDO CA	[Leeds, D. H.]	371	Not Available	[SSD]	Approved for public release; distribution is unlimited. Document partially illegible.	Not Available
AD0402313	RESEARCH IN ELECTROMAG NETICS, PLASMAS AND NETWORKS	2/13/1963	U	[A - 01]	Not Available	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[Felsen, L. B.]	72	[PIBMRI-1112- 63,AFCRL-63-53]	[63-53,AFCRL]	Approved for public release; distribution is unlimited.	Final rept., 1 Jul 1958-31 Dec 1962
AD0410528	Temperature Control Systems for Space Vehicles	5/1/1963	U	[A - 01]	Passive, semi-passive, active and heat storage methods for temperature control are described, which include mathematical equations, tables and graphs. Comparisons between the various methods are made indicating their advantages and disadvantages. A section is presented on thermal design consideration of space vehicle equipment indicating various means for controlling equipment temperature. Methods of thermal analysis and examples of analyses are presented which include steady-state and transient heat transfer. A brief discussion on dynamic response is also included. Conclusions are reached concerning advances in analysis and design techniques. Recommendations cover areas needing investigation and further studies.	NORTH AMERICAN AVIATION INC DOWNEY CA	[Honea, F. I.,Watanab e, D.]	578	[ASD-TDR-62-493 PT-1]	[TDR-62-493-PT- 1,ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0330051	Environmental Control Systems Selection for Manned Space Vehicles. Appendix L. Missions, Vehicles, and Equipment	5/1/1962	U	[A - 01]	Determination of thermal and atmospheric control requirements necessitate examination of realistic manned vehicles. Three versions of a manned, orbital, reentry, base-point vehicle are developed for the purpose of providing tangible reference points for determination of the thermal and atmospheric control requirements of realistic vehicles. Preliminary concepts of a manned orbital base and a manned lunar vehicle are also outlined. More complete development of the latter two concepts is planned for a later phase of the study. In addition to the development of specific vehicles, general data have been compiled on the more important aspects of manned space vehicle design, (i.e., flight vehicle power, structures, effects of meteoroids, mission equipment, and examination of these general data for environmental requirements).	AUTION NORTH AMERICAN AVIATION INC LOS ANGELES CA LOS ANGELES DIV	[Paselk, V. R.,Martin, A. C.]	102	[62ASRM-1047- 17,ASD-TR-61- 240-V2-P1]	[TR-61-240-V2- P1,ASD]	Approved for Public Release; Distribution Unlimited.	Technical rept.
AD0266076	HUMAN ACCELERATIO N STUDIES	12/1/1961	U	[A - 01]	Not Available	ARMED FORCES-NRC COMMITTEE ON BIO- ASTRONAUTI CS WASHINGTO N DC	[Bates, George,Cla rk, Carl C.,Hardy, James D.,Hessber g, Rufus R.]	77	[913]	[NASA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA452635	Studies of	6/1/1968	U	[A - 01]	At its inception, three major goals were established for this contract effort. First,	BOEING	[Allesina,	155	[D2-114116-	[CR-1068,NASA]	Approved for	Contractor
	Cost Effective				define promising directions for structural research by applying the concept of	AEROSPACE	Bruce,Styer		1,NASA-CR-1068]		public	rept.
	Structures				minimum cost rather than maximum performance to structural design. Second,	CO SEATTLE	, E. F.]				release;	
	Design for				understand the relationship of structure to the economics of the total system. Third,	WA					distribution is	
	Future Space				identify and apply the interactions of the various aspects of program costs to point						unlimited.	
	Systems -				out the potential cost savings they imply. The material presented in this report shows							
	Summary				that these goals have been satisfied. A number of structural research areas have							
					been identified. These are developed individually throughout this document and are							
					collected in this section for visibility. An understanding of the system role played by							
					structure has been developed in five system studies that show, in general, that							
					structure, when considered as a subsystem, is unique in its far-reaching effect on the							
					system. Moreover, detailed consideration of other subsystems reveals a large							
					structural influence. Finally, strong interactions of structural design decisions with							
					aerospace system costs have been demonstrated, particularly by the study described							
					in Section 4.5, and significant potential cost savings have been identified.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA473843	Advances on Propulsion Technology for High- Speed Aircraft. Volume 1	3/1/2007	U	[A - 01]	The Final Proceedings for Advances in Propulsion Technology for High-Speed Aircraft, 12 March 2007-15 March 2007. The demand for supersonic vehicles is believed to boost in the incoming years. This VKI/RTO lecture series will review the current state of the art of high speed propulsion for both airplanes and space launchers. Hypersonic air-breathing vehicles technology benefits and challenges will be discussed, with particular attention to the recent hypersonic activities in the USA. Then recommendations for future technology development will be presented. A series of specific talks will address advanced engine technology cycles, pulsed detonation engines and turbine based cycles. A couple of lectures dedicated to rocket engines will discuss turbomachinery issues and recent developments on materials and the combustion chamber. Afterwards, ramjets. scram jets and dual mode operation will be examined. Dedicated sessions will present the experience acquired in recent years in developing advanced demonstrators in the USA, Russia, Australia and the European Union. In the light of existing environmental concerns, the program will be completed with specific sessions on noise generation from high-speed jets and chemical pollution. The requirements to implement a complete hydrogen technology will be analyzed based on the experience gained in the Cryoplane project. The Directors of this VKI/RTO Lecture Series are Prof. G. Paniagua of the von Karman Institute and Prof. J. Steelant of the European Space Agency ESTEC.	VON KARMAN INST FOR FLUID DYNAMICS RHODE-SAINT GENESE (BELGIUM)	Not Available	204	[EOARD-CSP-07- 5052]	[CSP-07- 5052,EOARD]	Approved for public release; distribution is unlimited.	Conference proceedings
AD0456337	THIN CYLINDRICAL SHELLS UNDER LOCAL AXIAL LOADINGS	12/1/1964	U	[A - 01]	The linear equations due to Flugge for thin elastic circular cylindrical shells are solved by use of the finite Fourier transform for the case of distributed tangential (axial) loading with simply supported edge conditions. This solution supplements prior results obtained by Bijlaard for radial (normal) loadings. Combining Bijlaard's results with the solutions obtained in this report permits discussion of localized loadings having components both normal and tangential to the shell's middle surface. Such an application is discussed and numerical results are provided.	ARMY MATERIALS RESEARCH AGENCY WATERTOWN MA	[Mescall, John F.]	34	[AMRA-TR-64- 39]	[AMRA]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0437277	MULTIPLE BEAM INTERVAL SCANNER	3/23/1964	U	[A - 01,23]	Not Available	SYLVANIA ELECTRIC PRODUCTS INC WALTHAM MA	[LaRussa, Francis J.]	67	[F485-1,AFCRL- 64-192-2]	[64-192-2,AFCRL]	Approved for public release; distribution is unlimited. Document partially illegible.	Final rept.
ADA639992	Toward an Air and Space Force: Naval Aviation and the Implications for Space Power	9/1/1999	U	[A - 01]	We are now transitioning from an air force into an air and space force on an evolutionary path to a space and air force. Less than two years after announcing this latest vision, the Air Force changed the terminology from air and space to aerospace. The vision is certainly plausible, but there is a tremendous difference between adopting a particularly appealing bumper sticker slogan and implementing a real plan to accomplish the transition to an aerospace force. This project looks to the history of US naval aviation to determine if the effort to integrate aviation into the Navy from 1921 to 1941 provides a suitable framework for the Air Force to emulate as it integrates space into Air Force operations. The intent of this comparison is to measure the progress of space integration into the Air Force against this historical precedent, to identify areas suggested that would benefit from increased attention, and to recommend improvements that could facilitate the integration of space power into the Air Force.	AIR UNIV MAXWELL AFB AL AIRPOWER RESEARCH INST	[Jelonek, Mark P.]	90	Not Available	[AU-ARI]	Approved for public release; distribution is unlimited.	Not Available
AD0427992	TANTALUM ALLOY TUBING DEVELOPMEN T PROGRAM	10/1/1963	U	[A - 01]	A state-of-the-art analysis has been completed covering potential application for, domestic and foreign technology used in the production of, and a review of mechanical and physical property data on tantalum alloy tubing. Usage was made of a questionnaire, personal visitations and contacts, and a review of domestic and foreign literature. The survey revealed that the primary potential utilization of tantalum alloy tubing is in nuclear aerospace propulsion and auxiliary power systems. The proposed program for Phases II, III and IV is submitted.	ALLEGHENY LUDLUM STEEL CORP BRACKENRID GE PA	[Turner, F. S.]	149	[RTD-TR-8-109- VOL-1]	[TR-8-109-VOL- 1,RTD]	Not Available	Interim technical engineering rept. no. 1, 1 July-30 Sep 1963

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA020088	Working Paper on a Case Study on the Transfer of Space Technology	8/1/1975	U	[A - 01]	An assessment is made of the role of technology transfer in Soviet space technology. The analysis is based on first-hand knowledge and insights available as a result of the Apollo-Soyuz Test Project. It is concluded that technology transfer has not had a significant role in the historical development of Soviet space technology. However, it may play an increasingly greater role in the future.	BATTELLE COLUMBUS DIV OH	[Gray, L. M.]	39	Not Available	[DARPA]	Approved for public release; distribution is unlimited.	Working paper Apr- Aug 1975
ADA323010	A Study to Determine and Test Factors Impacting Upon the Supply of Minorities and Women Scientists, Engineers, and Technologists for Defense Industries and Installations.	2/1/1997	U	[A - 01,23]	The Center for the Advancement of Science, Engineering, and Technology (CASET), of Huston-Tillotson College, a historically black college, conducted a multiyear research study to determine and test barriers and enhancements to the recruitment, retention, and performance of American Indians, Blacks, Hispanics ana women as a means of alleviating a potential shortage of qualified American nationals IN THE SCIENTIFIC, ENGINEERING, AND TECHNOLOGICAL (SET) workforce. CASET organized a consortium of nineteen higher education institutions with enrollments primarily minority or female. Research strategies included quasi-experimental methodologies to collect and analyze data, the development and maintenance of the CASET;database containing documents critical to the research purpose, conducting 62 interventions testing strategies designed to encourage women and minorities to engage in SET study and careers, and symposia held at Johnson Space Center focusing on intervention programs for minorities and women. The study results confirmed there is a problem with the teaching and learning of mathematics in the U.S. Science interventions enhanced science performance significantly at all educational levels. Science interventions enhanced mathematics performance and/or attitudes of college students. Interventions vide the kind of support enabling under-represented minorities and women to succeed in non-traditional study and careers.	HUSTON- TILLOTSON COLL AUSTIN TX CENTER FOR ADVANCEME NT OF SCIENCE ENGINEERING AND TECHNOLOGY	[Kay, Nina W.]	2782	Not Available	[USAMRMC]	Availability: Document partially illegible.	Final rept. 23 Nov 87-1 Jul 95,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA218182	Military Use of	11/1/1988	U	[A - 01,23]	This thesis examines the legal issues and implications surrounding the potential	AIR FORCE	[Spradling,	222	[AFIT/CI/CIA-89-	Not Available	Approved for	Master's
	the				military use of the permanently manned international space station. In order to	INST OF TECH	Kevin K.]		002]		public	thesis
	International				accurately analyze and predict possible military missions for the station, knowledge	WRIGHT-					release;	
	Space Station				of the evolution of the manned military role in outer space, the development of	PATTERSON					distribution is	
					United States' policy regarding the military use of the medium, and the	AFB OH					unlimited.	
					characteristics and capabilities of the space station itself, are all essential. Chapters I						Document	
					and II address these subjects. The provisions of the specific legal instruments						partially	
					governing the space station are reviewed and discussed in Chapters III and IV. The						illegible.	
					final chapter examines what role international space law will play in governing the							
					military use of the station. A brief conclusion assesses the liklihood of certain military							
					uses in light of practical, legal, and political constraints. Theses.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA369925 TI	HE CADRE	9/1/1999	U	[A - 01]	"We are now transitioning from an air force into an air and space force on an	AIR UNIV	[Jelonek,	88	Not Available	[CADRE]	Not Available	Occasional
P/	PAPERS:				evolutionary path to a space and air force."1 Less than two years after announcing	MAXWELL	Mark P.]					pub.,
Тс	oward an Air				this latest vision, the Air Force changed the terminology from "air and space" to	AFB AL						
ar	ind Space				"aerospace." The vision is certainly plausible, but there is a tremendous difference	CENTER FOR						
Fo	orce. Naval				between adopting a particularly appealing bumper sticker slogan and implementing a	AEROSPACE						
A	viation and				real plan to accomplish the transition to an aerospace force. This project looks to the	DOCTRINE						
th	he				history of US naval aviation to determine if the effort to integrate aviation into the	RESEARCH						
In	mplications				Navy from 1921 to 1941 provides a suitable framework for the Air Force to emulate	AND						
fc	or Space				as it integrates space into Air Force operations. The intent of this comparison is to	EDUCATION						
Po	ower.				measure the progress of space integration into the Air Force against this historical							
					precedent, to identify areas suggested that would benefit from increased attention,							
					and to recommend improvements that could facilitate the integration of space power							
					into the Air Force. Global Engagements call to integrate space into the Air Force is the							
					third such initiative since 1989.2 That the Air Force began such a course of action							
					again in 1997 implies that it did not fully integrate space during the previous two							
					attempts. Remarks from the most senior levels of the Air Force suggest that the latest							
					integration program is off to a slow start. Early in his tenure as chief of staff of the Air							
					Force, Gen Michael E. Ryan said the concept of becoming a space and air force is a							
					"good road map, a good glide path for us. It's now up to us to go out and execute it.							
					"3 Gen Howell M. Estes III, former commander of Air Force Space Command, said, "I							
					would have to say that the Air Force still has a long way to go in becoming an air and							
					space force, much less a space and air force, and that's not a surprise to anybody.							
AD0756851 D	Development	12/13/1960	U	[A - 01,23]	The report describes the tests, test methods, and test equipment required for quality	BOEING CO	[Cronin, T.	240	[D2-5697-16-VOL	[AFFDL]	Approved for	Not Available
Τe	est Plan				assurance acceptance of components of a manned spacecraft and its associated	SEATTLE WA	J.]		2]		public	
([	Design) Dyna-				ground support equipment.						release;	
So	ioar										distribution is	
											unlimited.	
											Decument	
											Document	
											partially	

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA557401	Space: Disruptive Challenges, New Opportunities, and New Strategies	1/1/2012	U	[A - 01]	How will disruptive change impact the direction of US space power, and what strategies will be effective in dealing with it? The answer lies in our understanding of the rise of space power and how that led to the conditions of today. This article examines the forces of disruptive change in addition to the ASAT threat, presents a set of possible responses to the challenges, and investigates whether the responses group into logical categories of actions. It then delves into how those actions might be implemented in future architectural states for space systems and if the conditions of the space market are appropriate for those responses. Finally, it asks how we might change the acquisition of space capabilities to better allow these responses and what that might mean in specific mission areas.	AIR FORCE SPACE AND MISSILE SYSTEMS CENTER LOS ANGELES AFB CA	[Pawlikows ki, Ellen,Lover ro, Doug,Cristl er, Tom]	29	Not Available	[SMC]	Approved for public release; distribution is unlimited.	Journal article
ADA307076	Navy Research Task Summary.	1/1/1961	U	[A - 01,23]	CONTENTS: Target Surveillance; Navigation; Environmental Surveillance; Command Control; Communications; Data Processing; Weapons and Ordnance; Guided Missiles; Other Naval Defense Applications; Aircraft and Aircraft Support; Ships and Submarines; Boats and Amphibious Vehicles; Logistics; Personnel Administration; Training; Warfare Research; Astronautics; Chemical Sciences; Physical Sciences; Mathematical Sciences; Earth Sciences; Biological Sciences; Psychological Sciences; Materials Sciences; Electronic Sciences; Engineering Mechanics; Energy Conversion.	OFFICE OF NAVAL RESEARCH ARLINGTON VA	Not Available	363	Not Available	[ONR]	Availability: Document partially illegible.	Not Available
AD0601531	BIOMEDICAL RESEARCH STUDIES IN ACCELERATIO N, IMPACT, WEIGHTLESSN ESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEMS: A COMPREHENS IVE BIBLIOGRAPH Y	12/1/1963	U	[A - 01]	This bibliography is the basic volume of a planned series to be continued in annual supplements. The bibliography attempts a comprehensive listing of all scientific research in the areas of acceleration, vibration, deceleration, weightlessness, and protection and survival research. Scope of the fields surveyed includes rather broad areas of prolonged acceleration including blast and impact, vibration, weightlessness, and restraint and escape systems including capsules, ejection, and evacuation. The bibliography is arranged alphabetically by author into four sections, and contains 10,306 entries (Acceleration, 6,470; Vibration 1,058; Weightlessness, 873; and Escape and Restraint, 1,905). Approximately 70 percent of the entries include abstracts. Although this attempt has been comprehensive covering materials appearing as early as 1818 and as late as November 1963, the bibliography is intended only to aid, and not supplant, formal literature search by the working scientist.	FEDERAL AVIATION ADMINISTRA TION OKLAHOMA CITY OK CIVIL AEROMEDICA L INST	[Snyder, Richard G.,Ice, John,Dunc an, Judith C.,Hyde, Alvin S.,Leverett, Sidney, Jr.]	3083	[CARI-63-30]	[FAA]	Not Available	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA367211	Transitioning to a Space & Air Force: Moving Beyond Rhetoric?	4/1/1998	U	[A - 01]	Efforts within the Air Force to integrate its two primary components, air and space, have yielded at best slow and dubious results. Many space advocates and analysts assumed that the vital role space played in the Gulf War would result in space being recognized as warranting an equal position with the air component of the Air Force, if not the creation of a separate service. Although rhetoric has seemed to support those assumptions, actual progress has remained slow. In this paper, the role played by organizational culture and an indicator of organizational commitment, is also considered. The trials of teaching and integrating space into an already existing structure at the senior Air Force Professional Military Education (PME) institution, the Air War College, is examined as illustrative. The conclusion reached is that the current environment is not conducive to integration, and that rhetoric will likely continue to outpace substantive progress, with potentially negative result.	AIR FORCE ACADEMY COLORADO SPRINGS CO	[Johnson- Freese, Joan]	28	Not Available	[USAFA]	Not Available	Research rept.
AD0275745	QUARTERLY INDEX AND ABSTRACTS OF TECHNICAL DOCUMENTA RY REPORTS	12/1/1962	U	[A - 01]	Not Available	AIR FORCE SPECIAL WEAPONS CENTER KIRTLAND AFB N MEX	Not Available	1	Not Available	Not Available	Not Available	Not Available
AD0434797	PROCEEDINGS OF SYMPOSIUM ON AEROELASTIC AND DYNAMIC MODELING TECHNOLOGY, 23 - 25 SEPTEMBER 1963, DAYTON, OHIO	3/1/1964	U	[A - 01]	The unclassified proceedings of the Air Force Flight Dynamics Laboratory and Aerospace Industries Association Symposium on Aeroelastic and Dynamic Modeling Technology are presented. The papers are divided into appropriate technical area sub groups and individual sessions were devoted to each. These sub-groups were: Theory and Design, Model Testing Techniques, Dynamic Loads and Aeroelastic Applications, and Structural Design Applications. Two classified sessions were held on Aerospace Vehicle Applications and Aircraft Applications.	RESEARCH AND TECHNOLOGY DIV BOLLING AFB DC	Not Available	754	[RTD-TDR-63- 4197-PT-1]	[RTD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0295075	ON THE THEORY OF RADIATION FROM SOURCES IN PLANE STRATIFIED ANISOTROPIC PLASMA MEDIA	9/25/1962	U	[A - 01]	The radiation from arbitrary source distributions in plane stratified, anisotropic media is presented. The formal solutions are obtained by an extension of modal procedures familiar from the analysis of isotropic waveguide regions. Special attention is given to the formulation of a radiation condition which requires the flow of energy away from the sources, and to its interpretation utilizing the refractive index surfaces descriptive of plane wave propagation in an anisotropic medium. These concepts are illustrated in detail for an ionized plasma under the influence of an external steady magnetic field.	POLYTECHNIC INST OF BROOKLYN NY MICROWAVE RESEARCH INST	[Arbel, E.,Felsen, L. B.]	59	[PIBMRI-1069- 62,AFCRL-62- 760]	[62-760,AFCRL]	Approved for public release; distribution is unlimited.	Not Available
AD1030453	Tough Tommy's Space Force: General Thomas S. Power and the Air Force Space Program	6/1/2016	U	[A - 01]	This study examines the career of General Thomas Sarsfield Power, third Commander- in-Chief of Strategic Air Command, and especially his forgotten contributions to the early Air Force space program. The author describes the modern search for an Alfred Thayer Mahan for space, or a space war-fighting icon for the Air Force. The study identifies three major contributions to the Air Force space program Power had, using I.B. Holleys three step organizational model to develop superior weapons from new technology. First, the study describes Powers role in establishing General Bernard Schrievers Western Development Division as a true space organization rather than merely a ballistic missile organization. Second, it details Powers efforts to develop concepts and early doctrine for military space activity under the Study Requirements (SR) system. Third, it catalogs Powers efforts to transform Strategic Air Command into a strategic aerospace command by championing advanced nuclear space programs, including a manned strategic space force based on Project Orion, an Air Force program to develop a nuclear pulse rocket. The study reviews todays Air Force space effort and assesses Powers space ideas modern relevance. Thomas Power should be considered the Air Forces space war-fighting icon, and the Air Force should reclaim Powers ideas to rejuvenate its space program.	AIR UNIV MAXWELL AFB AL MAXWELL AFB United States	[Ziarnick,Br ent D.]	154	Not Available	Not Available	Approved For Public Release;	Technical Report

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA606210	Aeromechanic	2/1/2014	U	[A - 01]	One of the biggest challenges in the development of a space or launch vehicle is	GEORGIA	[Robertson	273	[AFRL-RQ-WP-TR-	[TR-2014-	Approved for	Final rept. 1
	s and Vehicle				predicting a vehicle's final performance during the initial phases of design. To address	TECH	,		2014-0005V3]	0005V3,AFRL-RQ-	public	Nov 2012-30
	Configuration				the uncertainty surrounding mass growth, program managers added an extra mass	RESEARCH	Bradford,E			WP]	release;	Dec 2013
	Demonstratio				allotment to the dry mass of a vehiclethis extra allotment is known as a design	INST	dwards,				distribution is	
	ns. Volume 3:				margin. To account for all relevant uncertainties, a hybrid method of forecasting mass	ATLANTA	Stephen,M				unlimited.	
	A Hybrid				was developed. This hybrid methodology merges two separate styles of analyzing a		avris,					
	Probabilistic				development program's uncertainties. Tests for two sample problems were		Dimitri]					
	Method for				conducted. The first focused on the use of executable morphological analysis (EMA)							
	Estimate				to predict changes in the Space Shuttle Orbiter's dry weight while utilizing historical							
	Design Margin				information and forecasts. The second sample problem focused on demonstrating							
					the hybrid methodology on the future-responsive access to space technologies (FAST)							
					reference flight system (RFS) fighter jets (F), an advanced launch vehicle technology							
					demonstrator.							
۵۵۵/133782		1/10/1964		[4 - 01]	This report summarizes the information generated since the middle of 1961 on the	ΒΔΤΤΕΙΙΕ	[Gibeaut	100	[DMIC-195]		Approved for	Not Available
//20433/02	OF COATED	1,10,1904	Ŭ	[/( 01]	chemical physical and mechanical properties of refractory metals that are coated	MEMORIAI	W	100	[50016 155]	[DDRE]	nublic	Not / Wallable
	REFRACTORY				with oxidation-resistant coatings of advanced-experimental or commercial status. It is	INST	ABartlett.				release:	
	METALS				a supplement to DMIC Report 162. Coatings for the Protection of Refractory Metals	COLUMBUS	F. S.1				distribution is	
					from Oxidation, dated November 24, 1961, Recent data on specific silicide- and	OH DEFENSE					unlimited.	
					aluminide- type coatings for columbium, molybdenum, tantalum, and tungsten and	METALS						
					their alloys reflect general advances in coating quality and performance.	INFORMATIO						
					understanding of the behavior of coated systems, and more complete realization of	N CENTER						
					the problems associated with the use of coated hardware.							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0432083	MICRO- MODULE EQUIPMENT MAINTENANC E AND LOGISTICS PROGRAM. PREDICTION OF LOGISTICS AND MAINTENANC E DEMAND PARAMETERS. VOLUME 3	6/30/1962	U	[A - 01]	This volume contains detailed techniques for estimating necessary maintenance, logistic, and cost parameters relevant to logistic and maintenance supprt system planning. Its intent is to develop for personnel charged with the responsibility of estimating design and logistic parameters, techniques which may be easily and reliably applied.	RAYTHEON CO WALTHAM MA	Not Available	117	Not Available	[DA]	Approved for public release; distribution is unlimited.	Final rept. 1 Apr-30 June 1962
AD0406248	TURBULENT REFERENCE, ROUGHNESS, LEAKAGE AND DEFLECTED- SURFACE HEAT TRANSFER AND PRESSURE TESTS FOR TBC	5/27/1963	U	[A - 01]	Hypersonic tests of three basic models were conducted in the CAL 48-inch Hypersonic Shock Tunnel. The tests were run in the 23-inch and 46-inch exit-diameter contoured nozzles of the CAL Tunnel. The three models were: a blunt leading-edge model with sweep angles of 55, 60 and 65 degrees; a hemisphere-cylinder model; and a sharp flat plate with deflectable rear flap and span extensions. The objectives of the tests were as follows: (1) to obtain fully turbulent heat transfer rate and pressure data for leading edge, nose and flat surfaces with stream-to-wall property ratios characteristic of Dyna Soar flight conditions; (2) to establish the effect of transverse pressure gradient on roughness and leakage effects with laminar and turbulent boundary layer flow; (3) to defire heat transfer, pressure distribution and region of separation for aerodynamic control surfaces; and (4) to determine the variation in pressure and heat transfer rate distributions with model attitudes.	BOEING CO SEATTLE WA	[Ellison, R. K.]	380	[D2-80910]	[ASD]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0601140	SOVIET STRATEGY AT THE CROSSROADS	4/1/1964	U	[A - 01]	In October 1963, the Military Publishing House of the Soviet Ministry of Defense brought out a revised edition of Voennaia Strategiia. Four months later RAND distributed Leon Goure's Notes on the Second Edition of Marshal V. D. Sokolevskii's Military Strategy (AD-600 081). The Goure study made a preliminary appraisal of the second edition on the basis of selected textual comparisons between it and the original work. The present study goes further. It examines the major factors underlying current trends in Soviet strategy, and it surveys and evaluates recent Soviet military thought using a wide range of published Soviet materials, including of course both the first and second editions of the Sokolovskii book.	RAND CORP SANTA MONICA CA	[Wolfe <i>,</i> Thomas W.]	356	[RM-4085-PR]	[AFRDC]	Approved for public release; distribution is unlimited.	Not Available
ADA330029	Concepts of Operations for a Reusable Launch Vehicle.	9/1/1997	U	[A - 01]	The United States is embarked on a journey toward maturity as a spacefaring nation. One key step along the way is development of a reusable launch vehicle (RLV). The most recent National Space Transportation Policy (August 1994) assigned improvement and evolution of current expendable launch vehicles to the Department of Defense while National Aeronautical Space Administration (NASA) is responsible for working with industry on demonstrating RLV technology. The purpose of this study is to help ensure the US military, especially the USAF, is prepared to take advantage of RLVs should the NASA-led effort to develop an RLV demonstrator prove successful. The focus of this study is an explanation of how the US military could use RLVs, by describing and analyzing two concepts of operations. Four major conclusions resulted from the analysis. First, RLVs have military potential. They can perform a variety of missions including responsive spacelift, reconnaissance, and strike. However, the economic feasibility of using RLVs for earth-to-earth transportation is questionable. Second, design choices for an operational RLV will have effects on risk, cost, capability, and operations efficiency. Trade-offs will have to be made between NASA, commercial, and military requirements if all three parties are to use the same fleet of RLVs. Third, increased investment in propulsion technology development is warranted to ensure success. Fourth, the top priority for the RLV program, even from the military's perspective, should remain cheap and responsive access to space. The research led to three recommendations. First, the US military should become a more active participant in the RLV program to ensure its requirements are defined and incorporated. Second, America should not pursue development of operational RLVs before the technology is ready.	AIR UNIV MAXWELL AFB AL	[Rampino, Michael A.]	59	Not Available	[AU]	Not Available	Master's thesis,

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0318479	DYNA-SOAR. COCKPIT DISPLAY REPORT	3/1/1959	U	[A - 01]	The cockpit display system for Dyna-Soar I is designed to meet the following criteria.	BELL AEROSPACE CO BUFFALO NY	Not Available	209	[ER-10390]	[USAF]	Approved for public release; distribution is unlimited.	Not Available
ADA335555	The Virtual Spaceplane: Integrating Multiple Motion Models and Hypertext in a Virtual Environment	12/1/1997	U	[A - 01]	The Air Force is currently investigating the possibility of developing a manned vehicle capable of operating in space. This Military Spaceplane (MSP) will be capable of ascent to low-earth orbit and maneuvering while in orbit. The goal of this research involved creating the Virtual Spaceplane (VSP), a virtual environment (VE) simulator for the MSP. This thesis examines two ideas significant to virtual environments and cockpit design: multiple motion models and hypertext in a VE. Movement in a VE has traditionally been modeled using a single motion model. Little work has been done to allow a change of the motion model used during the simulation. This thesis suggests partitioning simulation entities into two sections: the geometry model and the propagation model. This approach is demonstrated in the VSP using multiple propagation models as it transitions from runway to orbit. This thesis also examines the use of hypertext within a VE. Hypertext has been shown useful for readers to quickly locate information. This thesis will discuss the integration of a hypertext interface into the VSP. The hypertext interface provides checklists, systems status, and consumables status. Hypertext provides the spaceplane pilot with an effective means of referencing large amounts of data.	AIR FORCE INST OF TECH WRIGHT- PATTERSONA FB OH SCHOOL OF ENGINEERING	[Johnson, Troy D.]	121	[AFIT/GM/ENG/9 7D-01]	[PL]	Not Available	Master's thesis

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA588326	Ideas,	12/1/1989	U	[A - 01]	This history seeks to discover and record the mainstream of thought within the	AIR UNIV	[Futrell,	685	Not Available	[AU]	Approved for	Monograph
	Concepts,				United States Air Force (and its predecessors) concerning the role to be played by air	MAXWELL	Robert F.]				public	
	Doctrine:				and aerospace power in a deadly struggle for national survival. It seeks to trace the	AFB AL					release;	
	<b>Basic Thinking</b>				development of a theme of institutional thought, describe the organizational						distribution is	
	in the United				framework in which the thinking took place, and identify individual thinkers and their						unlimited.	
	States Air				ideas. In great measure this chronology is the story of dedicated professional men							
	Force, 1907-				who were attempting to discover the capabilities and limitations of new forms of air							
	1960. Volume				and aerospace power and to relate these new characteristics of military power to the							
	1				defense of the United States and its national interests. The story begins with the first							
					heavier-than-air flight in 1903 and closes at the end of 1984. This ending date							
					permits a coverage of Air Force thinking about counterinsurgency warfare and the							
					military operations in Southeast Asia. This revised two-volume history is an extended							
					version of Ideas, Concepts, Doctrine: A History of Basic Thinking in the United States							
					Air Force, 1907-1964, which the author completed during 1961-64. This original book							
					was first published in 1971 by the Aerospace Studies Institute, Air University, in a two	-						
					volume format; it was reprinted in 1974 as a single volume in the numbered-text							
					series of the Air University as AU-19. In view of a continuing demand for the book,							
					the author was brought back from retirement at the end of September 1982 with a							
					two-year contract calling for revision of the original book as necessary to bring it up							
					to date, as of 1984.							
					1							

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
ADA606603	The Threshold	9/1/1960	U	[A - 01]	The Threshold of Space is a brief study of the national space program from 1954	DEPARTMENT	[Bowen,	66	Not Available	[USAF/HDLNO]	Approved for	Not Available
	of Space: The				through 1959 with emphasis on the role of the Air Force. It was originally prepared as	OF THE AIR	Lee]				public	
	Air Force in				a chapter for inclusion in the History of Headquarters USAF, Fiscal Year 1959. Because	FORCE					release;	
	the National				of the importance and timeliness of the subject, the chapter is being issued as a	WASHINGTO					distribution is	
	Space				separate study to make it more quickly available throughout the Air Force. Based	N DC					unlimited.	
	Program, 1945				chiefly on official documents, The Threshold of Space is a precis of a much more	HISTORICAL						
	1959				detailed history on the space program currently being prepared. Rather than	DIV LIAISON						
					confining itself to fiscal year 1959, the present study reaches back to the beginnings	OFFICE						
					of space research in the 1940's and carries the story forward to January 1960. This							
					was necessary to provide the proper perspective for an understanding and							
					appreciation of this vital area of national activity, It was impossible in a study of this							
					length to cover all facets of the space program, whether national or Air Force. There							
					had to be a choice of topics such as policy, the selection of projects for development,							
					and the widespread distribution by the Department of Defense of systems and							
					subsystems among the three services for research and tests. Other topics almost							
					equally important had to be excluded. Among the latter there were such subjects as							
					interservice rivalry for control of the satellite-detection fences and the Navy-Air Force							
					dispute about the Pacific Missile Range. It was also necessary to omit coverage of the							
					valuable word dome by the Air Force in the field of space medicine and in the							
					establishment of international agreements for the construction of bases outside the							
					United State. These and other subjects will receive through treatment in the more							
					comprohensive history new under way							
AD0756853	Dyna Soar	8/26/1960	U	[A - 01,23]	The Dyna Soar program plan is made up of a series of individual plans which are	BOEING CO	Not	204	[D2-5697-16]	[USAF]	Approved for	Not Available
	Program				summarized in a top document. This top document consists of two volumes. Volume I	SEATTLE WA	Available				public	
	Planning				provides a summary of the program in its entirety. It contains a description of the						release:	
	Report (Step				program organization structure, an outline of the system elements, the proposed						distribution is	
	I). Summary.				approach to accomplishing the program objectives, the ground rules, master phasing.						unlimited.	
	Volume 1				and summaries of the detailed plans which compose the remainder of the program						Document	
	volume 1				Inlan						nartially	
					pron.						illegible	
											inegible.	

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD0433566	NITROGEN PURGE EQUIPMENT, FIRE PROTECTION AND SAFETY SUBSYSTEM	3/19/1963	U	[A - 01]	Not Available	BOEING CO SEATTLE WA	[Burke, Jr, N. K.]	103	[10-81170-REV- A]	[ASD]	Approved for public release; distribution is unlimited.	Not Available
AD0333146	SCIENTIFIC INFORMATIO N REPORT. ELECTRONICS AND ENGINEERING (23)	11/23/1962	U	[A - 01,23]	Not Available	CENTRAL INTELLIGENC E AGENCY WASHINGTO N DC	Not Available	78	[CIA-SR-4041]	[CIA]	Availability: Document partially illegible.	Not Available
AD0401911	INTERACTIONS PRODUCED BY SONIC LATERAL JETS LOCATED ON SURFACES IN A SUPERSONIC STREAM	4/1/1963	U	[A - 01]	Not Available	ARNOLD ENGINEERING DEVELOPME NT CENTER ARNOLD AFB TN	[Strike, W. T.,Schueler , C. J.,Deitering , J. S.]	130	[AEDC-TDR-63- 22]	[AEDC]	Approved for public release; distribution is unlimited.	Not Available

Accession	Title	Report Date	Report	Distribution	Abstract	Corporate	Personal	Page	Report	Monitor Series	Distribution	Descriptive
Number			Class	Codes		Author	Authors	Count	Numbers		Statement	Note
AD1024524	Wright- Patterson Air Force Base: The First Century	1/1/2015	U	[A - 01]	Wright-Patterson Air Force Base is the most organizationally complex base in the U.S. Air Force. This 8,145-acre military reservation located near Dayton, Ohio, has over 600 office, laboratory, and support buildings in addition to 127 family housing buildings. It employs over 27,000 people and generates an annual payroll of \$2.2 billion. The base is the largest employer in the state of Ohio at a single location and the largest employer among Air Force bases worldwide. Its occupants include over 60 on-base tenant units. With over 600 structures, many dating from the pre-1946 period, Wright-Patterson may also be the Air Forces most historically significant base. Major military units assigned to the installation are HQ Air Force Materiel Command, HQ Air Force Life Cycle Management Center, HQ Air Force Research Laboratory, the Air Force Institute of Technology, the National Air and Space Intelligence Center, the National Museum of the U.S. Air Force, 445th Airlift Wing (AFRC), a National Park, a regional Department of Defense medical center, and numerous other Air Force, Department of Defense, and government agencies. Since 1944, the 88th Air Base Wing has been responsible for operating the base.	Autnor Air Force Materiel Command - Air Force Life Cycle Management Center Wright- Patterson AFB United States	Autnors Not Available	76	Not Available	Not Available	Statement Approved For Public Release;	Note Technical Report
ADA951933	History of the X-20A Dyna- Soar. Volume I.	10/1/1963	U	[A - 01]	Not Available	AERONAUTIC AL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Geiger, Clarence J.]	160	[ASD-TR-63-50-1- VOL-1]	[ASD/WPAFB]	Approved for Public Release; Distibution Unlimited.	Final rept. for period ending Sep 63,

## Highest Classification: Unclassified

## Collection: TR

Accession	Title	Report Date	Report	Distribution	Corporate	Personal	Page	Report	Monitor	Distribution Statement	Descriptive
Number			Classification	Codes	Author	Authors	Count	Numbers	Series		Note
AD0352066	WEIGHT ANALYSIS REPORT, MODEL X-20. VOLUME 5	7/13/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Rankin, C. W.]	215	[D2,81264 5]	[XC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 JUL 1964. Other requests shall be referred to Department of Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311854	DYNA SOAR STEP I.	12/19/1960	U	[C - 02]	BOEING CO SEATTLE WASH	Not Available	30	[DN D2 7326 4]	Not Available	Not Available	Program progress rept.
AD0347869	X-20 (DYNA-SOAR) SYSTEM DEVELOPMENT FLIGHT TEST REQUIREMENTS	12/19/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	160	[D2-80648]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0288811	ENVIRONMENTAL EFFECTS ON MATERIALS AND EQUIPMENT. ABSTRACTS, SECTION B, VOLUME 2B, NUMBER 9	9/1/1962	U	[C - 02]	NATIONAL ACADEMY OF SCIENCES- NATIONAL RESEARCH COUNCIL WASHINGTON DC PREVENTION OF DETERIORATION CENTER	Not Available	64	Not Available	[ONR]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Sep 1962. Other requests shall be referred to Office of Naval Research, Arlington, VA 22217.	Not Available
AD0346962	FLUTTER CRITERIA FOR PRELIMINARY DESIGN	9/18/1963	U	[C - 02,23]	LING-TEMCO- VOUGHT INC DALLAS TX	[Harris, G.]	163	[2,53450 3R467]	[NAVWEPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1963. Other requests shall be referred to Bureau of Naval Weapons, Washington, DC. Document partially illegible.	Final engineering rept.
AD0348784	X-20 GLIDER STRUCTURES THERMAL ANALYSIS METHODS	3/31/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Cheng, Henry C.]	215	[D2-81243]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAR 1964. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	Not Available
AD0432618	DEVELOPMENT PROGRAM, BEARINGS, LUBRICANTS AND HYDRAULIC FLUIDS.	1/14/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Armstrong,C. S.]	135	Not Available	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0336885	ADVANCED DESIGN TRAINER. VOLUME II. COST REPORT	6/1/1960	U	[C - 02]	GENERAL PRECISION INC PALO ALTO CALIF LINK DIV	Not Available	5	[GPI-WDR-47- Vol-2,ARDC- SR49756]	[SR49756]	Not Available	Not Available
AD0449685	MATERIALS AND PROCESSES FOR X- 20 (DYNA-SOAR)	6/1/1964	U	[C - 02]	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OH	[Middendorp, Howard J.]	89	[TDR 64-20]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; June 1964. Other requests shall be referred to Systems Engineering Group, Wright-Patterson, AFB OH.	Rept. for May 1960-Dec 1963
AD0445253	LECTURES IN AEROSPACE MEDICINE, 3-7 FEBRUARY 1964	2/1/1964	U	[C - 02]	SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TX	Not Available	335	Not Available	[SAM-AF-BR]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1964. Other requests shall be referred to School of Aerospace Medicine, Attn: AFSC, Brooks AFB, TX 78235-5301.	Not Available
AD0342100	TRANSONIC LOCAL AND INTEGRATED BOOSTER BUFFET LOADS ON A 6.67% MODEL OF THE 624A VEHICLE WITH X-20 AND BULBOUS PAYLOADS. VOLUME 3. ICB TEST	1/1/1963	U	[C - 02]	MARTIN CO BALTIMORE MD	[Case, W.,Stouffer, C. G.,Rowe, W. H.]	97	[ER-13024-VOL- 3,SSD-CR63- 163-VOL-3]	[CR63-163- VOL-3,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1963. Other requests shall be referred to Air Force Systems Command, Space Systems Div., Los Angeles, CA.	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	--	-----------	---	-------------	---	--	-----	---	---------------------------	---	----------------------------
AD0445611	OPERATIONAL GROUND SUPPORT EQUIPMENT SYSTEM SPECIFICATION OGSESS (TEST PLAN) PART 1, VOLUME I. ROCKET ENGINE SUBSYSTEMS DYNA SOAR BOOSTER	5/31/1961	U	[C - 02]	AEROJET- GENERAL CORP AZUSA CA	Not Available	49	[AGC,DS I301 REV. A]	[XC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 NOV 1960. Other requests shall be referred to Department of the Air Force, attn: Office of Public Affairs, Washington DC 20330.	Test Plan Part 1, vol 1
AD0432622	NOSE CAP DEVELOPMENT - DYNA- SOAR PLASMA JET TESTS - SECTION 4	6/21/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Oakes, W. G.,Namatame, T.,Johnson, C. R.]	143	[D2-80083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 21 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0364215	RESULTS OF 2.3% SCALE DYNA- SOAR STAGE I/STAGE II STATIC STAGING WIND TUNNEL TEST. VOLUME II	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Thomas,C.]	331	[ER-11352-Vol. 2]	Not Available	Not Available	Not Available
AD0274087	STUDY OF A DRAG BRAKE SATELLITE RECOVERY SYSTEM, VOLUME 1	1/1/1962	U	[C - 02]	AVCO EVERETT RESEARCH LAB INC EVERETT MA	Not Available	331	[ASD-TR-61- 348-VOL-1]	[TR-61-348- VOL-1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Technical rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB274364	Space Materials Handbook. Second Edition	1/1/1965	U	[B - 03]	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Goetzel, Claus G.,Rittenhous e, John B.,Singletary, John B.]	704	[ML-TDR-64- 40]	[AFML]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; JAN 1965. Other requests shall be referred to AFML/RTD, AFSC, WPAFB, OH 45433.	Technical documentary rept.
ADB952068	History of Titan III 1961-1963. Volume 1. Narrative	6/1/1964	U	[B - 03]	AIR FORCE SYSTEMS COMMAND WASHINGTON DC	[Piper, Robert F.]	190	[AFSC-HIST- PUB-64-22-1- VOL-1]	[AFSC]	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 18 FEB 1981. Other requests shall be referred to Commander, Air Force Systems Command, Attn: DLXL, Andrews AFB, Washington, DC 20334.	Not Available
AD0492972	INDEX AERONAUTICUS. JOURNAL OF AERONAUTICAL AND ASTRONAUTICAL ABSTRACTS. VOLUME 23. NUMBER 1	1/1/1967	U	[C - 02]	MINISTRY OF AVIATION LONDON (UNITED KINGDOM)	Not Available	109	Not Available	[X5]	Distribution authorized to U.S. Gov't. agencies and their contractors; Foreign Government Information; JAN 1967. Other requests shall be referred to The British Embassy, 3100 Massachussetts Avenue, NW, Washington, DC 20008.	Not Available
ADB250387	Notices of Changes in Classification, Distribution, and Availability for Dec 1999	12/31/2000	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William B.,Leach, Yvette A.,Rogers, Zena D.]	35	[DTIC/TR- 99/17]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Jul 98. Other requests shall be referred to DTIC- OCQ, Ft. Belvoir, VA 22060-6218	Monthly rept. 1-31 Dec 99
AD0443319	MOTOR GENERATOR FOR 4060L INDICATOR AS USED ON DYNA- SOAR (X20) PROGRAM,	1/13/1964	U	[C - 02]	LEAR INC GRAND RAPIDS MICH	[Verkaik,A.]	46	[903J1F,IDEP- 532 29 40 06F0 04]	[532 29 40 06F0 04]	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0500563	HART Program. Volume 2. Appendixes	9/7/1966	U	[E - 04]	MORTON THIOKOL INC ELKTON MD ELKTON DIV	Not Available	262	[E99-66-VOL-2]	[NOL]	Distribution authorized to DoD only; Administrative/Operational Use; SEP 1966. Other requests shall be referred to Commander, Naval Ordnance Lab., Attn: Code 730-3, White Oak, Silver Spring, MD 20910.	Final rept.
ADB186519	Research Summary Number 36-4. Volume 2 for the Period 1 June-1 August 1960	9/1/1960	U	[C - 02]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	Not Available	93	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1960. Other requests shall be referred to National Aeronautics and Space Administration, Code AO, 300 "E" Street, SW, Washington, DC 20546- 0001.	Interim rept., 1 Jun 1960-1 Aug 1960
AD0353195	PRELIMINARY IONIZATION ENVIRONMENT REPORT	8/18/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Kressner, W. K.]	246	[D2-8081]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 AUG 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0441895	ANALYSIS OF THE FAILURE OF TURBINE WHEELS IN DYNA-SOAR APU MODEL 876, SERIAL NUMBER 001 IN TESTS 001 AND 003,	6/18/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Kapic,D,,Hand logten,H. R.]	63	[21DER62]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433604	TESTING WORKING AGREEMENT P.F.R.T. STATUS SUMMARY,	1/10/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Longley,W. I.]	279	[D2 81094]	Not Available	Not Available	Not Available
AD0349161	PROGRAM 624A DESIGN LOADS REPORT, CONFIGURATION A, FORMAL ISSUE	4/1/1964	U	[C - 02]	MARTIN CO DENVER CO	[Kopp, K.,Morra, R.]	220	[SSD-CR-64-36]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1964. Other requests shall be referred to Air Force Systems Command Space Systems Division, Los Angeles, CA.	Not Available
AD0343655	MINUTES OF THE 18TH RANGE COMMANDERS' CONFERENCE, 4-5 APRIL 1961, AIR FORCE FLIGHT TEST CENTER	1/1/1961	U	[C - 02,23]	WHITE SANDS MISSILE RANGE NM	Not Available	143	Not Available	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA 93523. Document partially illegible.	Not Available
AD0329795	A Liquid Propellant Review	6/1/1962	U	[C - 02]	NEW YORK UNIV BRONX SCHOOL OF ENGINEERING AND SCIENCE	Not Available	75	Not Available	[NAVWEPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Bureau of Weapons (Navy), Washingon, DC.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0339621	DATA REPORT AMES RESEARCH CENTER 9'X7' AND 11'X11' UNITARY PLAN WIND TUNNELS, TEST NOS. 114 AND 90. SUPERSONIC AND TRANSONIC AIRLOAD DISTRIBUTION TESTS OF AD-603M-1, A .075 SCALE MODEL OF THE 844-2050 DYNA-SOAR GLIDER VEHICLE	7/11/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	580	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn:Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0446199	AN INVESTIGATION OF THE COEFFICIENTS OF FRICTION AND WEAR PROPERTY OF WIRE BRUSH SKIDS CONSTRUCTED WITH RENE 41 BRISTLES	8/1/1964	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CA	[Tebben, Gerald D.]	27	[TDR-64-11]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1964. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA 93524.	Not Available
AD0347836	ENERGY MANAGEMENT DURING DYNA-SOAR GLIDE FLIGHT	3/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	[Austin,R.]	1	[TN K1 59]	Not Available	Not Available	Not Available
AD0296635	RADIO FREQUENCY SHIELDING EFFECTIVENESS OF CONDUCTIVE GLASS	9/23/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	[Goble, J. A.]	9	[7142]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 SEP 1962. Other requests shall be referred to Dept. of Defense, ATTN: Public Affairs Office, Washington, DE 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0807805	DESIGN AND DEVELOPMENT OF 3000 F TEMPERATURE- TRANSDUCER SYSTEM	8/15/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Rall, D. L.]	139	Not Available	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 AUG 1962. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433. Document partially illegible.	Final rept.
AD0433926	ACCESSORY POWER UNIT FOR X-20 (DYNA-SOAR).	10/10/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Rand,L. T.]	81	[DSR12]	Not Available	Not Available	Monthly status rept., 1 30 Sep 62,
AD0465764	EFFECTS AND ANALYSIS OF MACH NUMBER AND REYNOLDS NUMBER ON LAMINAR SKIN FRICTION AT HYPERSONIC SPEEDS	2/1/1965	U	[C - 02,X - 57]	AIR FORCE FLIGHT DYNAMICS LAB WRIGHT- PATTERSON AFB OH	[Sieron, Thomas R.,Martinez, Jr, Conrad]	59	[AFFDL-TR-65- 5]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; FEB 1965. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright- Patterson, AFB, OH 45433. This document contains export-controlled technical data.	Technical rept.
AD0431137	DYNA-SOAR (STEP 1) PRIMARY GUIDANCE SUBSYSTEM. RADIO FREQUENCY INTERFERENCE CONTROL PLAN,	11/24/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Schmidt,A. P.]	10	[1179SR11]	Not Available	Not Available	Not Available
AD0443040	FUNCTIONAL EVALUATION TEST PLAN DYNA SOAR DATA TAPE RECORDING SYSTEM,	2/16/1962	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FLA	[Hardman,W. E.]	9	[7660 44]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433930	STATUS OF THE HYDROGEN COOLING EQUIPMENT X-20 (DYNA- SOAR) AS OF THE STOP WORK ORDER DATE DECEMBER 15, 1963	1/22/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CA AIRESEARCHMF G DIV	[Chase, A. B.]	236	[DS-252]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 22 Jan 1964. Other requests shall be referred to Department of Defense (DOD), Attn: Public Affairs Office Washington, DC 20301.	Not Available
AD0449039	DYNA SOAR STEP-I. GROUND SUPPORT SYSTEM SPECIFICATION (TEST OPERATION PLAN). PART II. MAINTENANCE ANALYSIS SPECIFICATION (TEST OPERATION PLAN). VOLUME I. AIR VEHICLE REQUIREMENTS,	7/17/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams,S.]	324	[ER11345 Vol. 2]	Not Available	Not Available	Not Available
ADB209068	Sealing Against Vacuum.	4/1/1963	U	[C - 12]	ARMOUR RESEARCH FOUNDATION CHICAGO IL	[Ishlinger, J. S.]	13	Not Available	[XD]	Distribution: DTIC users only.	Not Available
AD0453081	REFRACTORY ALLOY FOIL ROLLING DEVELOPMENT PROGRAM, PHASE 5	9/1/1964	U	[C - 02,23]	DU PONT DE NEMOURS (E I) AND CO BALTIMORE MD DU PONT METALS CENTER	[Clark, J. S.]	45	Not Available	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 SEP 1964. Other requests shall be referred to Metallurgical Processing Branch, Aeronautics Systems Division, Wright-Patterson AFB, OH 45433. Document partially illegible.	Interim rept. no. 2, 1 Jun-1 Sep 1964

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0401698	SYNTHESIS OF THERMALLY-STABLE POLYMERS	2/1/1963	U	[C - 02]	ARIZONA UNIV TUCSON	[MARVEL, CARL S.,DE WINTER, WALTER]	33	[ASD-TDR-62- 200-PT-2]	[TDR-62-200- PT-2,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Feb 1963. Other requests shall be referred to Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Not Available
AD0432983	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM,	3/1/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Pennington,J. ]	1	[1179SR36]	Not Available	Not Available	Not Available
AD1078228	Transonic Aerodynamic Characteristics of the Dyna-Soar Glider and Titan III Launch Vehicle Configuration with Various Fin Arrangements	4/1/1963	U	[E - 04]	Langley Research Center Hampton United States	[Bielat ,Ralph P.]	68	[NASA-TM-X- 809]	Not Available	DoD Components only;Administrative or Operational Use;,01 Apr 1963.Other request shall be referred to National Aeronautics and Space Administration ,Washington,DC,20546, National Aeronautics and Space Administration	Technical Report
AD0348209	DYNA-SOAR DESCRIPTION AND MAN RATING	1/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	23	[DS81 61]	Not Available	Not Available	Not Available
AD0324845	AN INVESTIGATION OF THE SEPARATION CHARACTERISTICS OF THE DYNA-SOAR FIRST AND SECOND STAGE BOOSTERS AT A FREE-STREAM MACH NUMBER OF 5	8/1/1961	U	[C - 02]	ARO INC ARNOLD AFS TN	[COATS, JACK D.,BAER, A. L.,MORGAN, L. A.]	41	[ARO- 331133,AEDC- TN-61-92]	[TN-61- 92,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1961. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311856	ENVIRONMENTAL CONTROL - SECONDARY POWER SUBSYSTEM TRADE STUDY	7/22/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	[Fagerlund, Kenneth R.]	110	[DN,D2 7313]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JUL 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Final rept.
AD0311860	CONFIGURATION STUDY REPORT - BALLISTIC RE-ENTRY SYSTEM - DYNA SOAR STEP 1 - PHASE ALPHA	3/13/1960	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	105	[DN-D2-5765]	[AFRDC,NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; MAR 1972. Other requests shall be referred to Air Force Research Laboratory, DET 1, AFRL/WSCL (STINFO), 2261 Monahan Way, Wright- Patterson AFB, OH 45433-7035.	Not Available
AD0316948	Studies of Rocket-Engine Propulsion Systems. Volume 1 - Summary	12/1/1959	U	[C - 02]	AEROJET- GENERAL CORP AZUSA CA	[Fuller, J. I.,Henry, I. G.,Rowe, J. R.]	67	[AGC-1667- VOL-1]	[BUAER]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1959. Other requests shall be referred to Bureau of Aeronautics, Department of the Navy, Washington, DC 20350.	Final rept. Vol. 1, 16 Jun 1958-31 Jul 1959
AD0345090	MISSION GUIDANCE AND ENERGY MANAGEMENT ANALYSIS REPORT	11/7/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	61	[D2-8088-4]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 NOV 1963. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB170195	An Assessment of Hypersonic Airbreathing Cruise Vehicles With a Prognosis of Geopolitical, Economic and Technical Factors Converged for the Development of a Rationale for Long Term Strategy	7/1/1992	U	[D - 16,X - 57]	MICRO CRAFT INC TULLAHOMA TN TULLAHOMA United States	[Draper,Alfred C.]	114	[WL-TR-92- 3103]	[WL-TR-92- 3103]	Department of Defense and U.S. DoD contractors only;Critical Technology;,01 Jul 1992.Other request shall be referred to Air Force Weapons Laboratory,Wright-Patterson AFB,OH,45433-6553,Air Force Weapons Laboratory.This document contains export- controlled technical data.	Technical Report,01 Jun 1991,31 Jul 1992
AD0347803	X-20 GLIDER/TRANSITION INFORMATION BOOK FOR SYSTEM 624A	6/13/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Tellock, H. L.]	200	[D2-80778]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0340849	4% SCALE 624A FORCE AND PRESSURE TEST PHASE I POST TEST REPORT NASA-AMES UNITARY PLAN WIND TUNNEL	8/1/1963	U	[C - 02,23]	MARTIN CO DENVER CO	[Ilgen, Paul R.]	607	[SSD-CR-63-36]	[CR-63- 36,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Air Force Systems Command Space Systems Division, Los Angeles, CA. Document partially illegible.	Not Available
AD0338892	WIND, WIND SHEAR, AND GUST DESIGN CRITERIA FOR VERTICALLY- RISING VEHICLES AS RECOMMENDED ON THE BASIS OF WIND DATA FROM ELEVEN UNITED STATES AND FOREIGN LOCATIONS	6/1/1963	U	[C - 02]	AVIDYNE RESEARCH INC BURLINGTON MA	[Mazzola, L. L.,Putukian, J.,Criscione, E. S.,Hobbs, N. P.]	287	[ASD-TDR-62- 908]	[TDR-62- 908,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Air Force Flight Dynamics Lab., AFSC, Wright-Patterson AFB, OH 45433.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0352318	X-20 (DYNA-SOAR) GLIDER SECONDARY POWER BAY CLASS I MOCK-UP	9/5/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	14	[DN-D2-80739]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 05 SEP 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD1071711	Hypersonic Flight and the National Aerospace Initiative, Part I	7/14/2003	U	[C - 02,X - 57]	The MITRE Corporation McLean United States	[Dimotakis,Pa ul,Brenner,Mi chael,Dyson,Fr eeman,Eardle y,Douglas,Goo dman,Jeremy, Katz,Jonathan, Lewis,Nathan]	121	[JSR-02-130]	[JSR-02-130]	U.S. Government agencies and their contractors;Critical Technology;,01 Jul 2003.Other request shall be referred to Office of Defense Research and Engineering (ODDR and E) ,Washington,DC,20301,Office of Defense Research and Engineering (ODDR and E) .This document contains export-controlled technical data.	Technical Report
ADB193583	Proceedings of the Institute of Environmental Sciences Annual Technical Meeting (1965)	1/1/1965	U	[C - 02,23]	INSTITUTE OF ENVIRONMENT AL SCIENCES MOUNT PROSPECT IL	Not Available	627	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1965. Other requests shall be referred to Department of Defense (DoD), Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB189724	Antenna for Re-Entry Vehicles	2/15/1960	U	[C - 02]	AERONUTRONIC FORD CORP NEWPORT BEACH CA	Not Available	12	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 FEB 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0406081	RESEARCH ON INORGANIC POLYMER SYSTEMS	11/30/1962	U	[C - 02,23]	UNITED STATES BORAX RESEARCH CORP ANAHEIM CA	[Steinberg, Howard,Broth erton, Robert J.,Willcockson, George W.,Teach, William C.,Boone, James L.]	161	[ASD-TDR-62- 251-P-2]	[TDR-62-251-P 2,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Nov 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Technical rept., 1 Jan- 30 Nov 1962
AD0432588	SAFETY DESIGN AND OPERATIONAL REQUIREMENTS. X-20 (DYNA- SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/9/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 29 1]	Not Available	Not Available	Not Available
AD0347767	DYNA SOAR PRIMARY GUIDANCE SUBSYSTEM PROPOSAL. VOLUME IV. LOGISTICS	9/25/1960	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R ED25095 vol. 4]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB186597	Astronautics Information Abstracts. Reports and Open Literature. Volume 6. Number 2	8/1/1962	U	[C - 02]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	[Highnote, S. A.,Ives, N.,Nichols, B. H.,Sidwell, E. M.,Warren, F. L.]	83	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1962. Other requests shall be referred to National Aeronautic and Space Administration, Code AO, 300 "E" Street SW, Washington, DC 20546-0001.	Not Available
AD0361810	DYNA SOAR STEP I BOOSTER ENGINES. PROGRAM PLAN.	5/12/1961	U	[C - 02]	AEROJET- GENERAL CORP SACRAMENTO CALIF	Not Available	1	[LRP-220]	Not Available	Not Available	Not Available
AD0347771	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM	5/12/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R1179PR4]	Not Available	Not Available	Monthly progress rept. no. 4, 1- 30 Apr 61.
AD0297660	FORMABILITY TESTS ON MO5TI	2/7/1961	U	[C - 02]	BOEING CO SEATTLE WA	[MARR, F. G.]	21	[T-2-2404- S5,IDEP- 502.30.00.80- C6-05]	[502.30.00.80- C6-05,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 FEB 1961. Other requests shall be referred to Interagency Data Exchange Program, Washington, DC 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353197	GLIDER-BOOSTER AIR VEHICLE INTERFACE SPECIFICATION, DYNA- SOAR STEP I	7/24/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Bono, Robert L.]	46	[D2-8068]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 JUL 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0441897	DEVELOPMENT TEST PERFORMANCE DUAL PRESSURIZATION HEAT EXCHANGER 179106 USED IN THE GLYCOL TEMPERATURE AND HYDROGEN PRESSURE CONTROL 179140 BOEING X-20 DYNA-SOAR PART 10-20917-8,	1/13/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF	[Coughlin,W. P.,Durham,R. E.]	6	[DS264]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0432838	DEVELOPMENT TEST PROCEDURES X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM. VOLUME 3. AEROSPACE GROUND EQUIPMENT (AGE),	3/10/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 31 3 1]	Not Available	Not Available	Not Available
AD0347842	DYNA-SOAR I SYSTEM INSTRUMENTATION EQUIPMENT SUBSYSTEM PERFORMANCE SPECIFICATION	3/13/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	124	[41]	Not Available	Not Available	Not Available
AD0433932	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT TEST STATUS,	4/12/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Rand,L. T.]	68	[6DSR,6]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0350181	RE-ENTRY GUIDANCE STUDIES USING TEMPERATURE RATE SENSING	5/1/1964	U	[C - 02]	GENERAL MOTORS CORP EL SEGUNDO CALIF AC SPARK PLUG DIV	[Stalony- Dobrzanski,J., Chen,W. S.]	58	[AFFDL-TDR64 15]	[TDR64 15]	Not Available	Not Available
AD0416730	CENTRIFUGE DESIGN EVALUATION OF THE X-20 (DYNA- SOAR) CREW STATION,	7/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	[Snyder,Charle s J.]	29	[ASD-TDR63 338]	[TDR63 338]	Not Available	Not Available
AD0338855	WEAPON SYSTEM 107A-2, PROGRAM PLAN RE-ENTRY ENVIRONMENT AND SYSTEM TECHNOLOGY (REST)	6/8/1962	U	[C - 02]	AVCO CORP WILMINGTON MA RESEARCH AND ADVANCED DEVELOPMENT DIV	Not Available	286	[RAD-SR-62-83- REV-1]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 JUN 1962. Other requests shall be referred to United States Air Force Systems Command, Ballistic Systems Division, Inglewood, CA.	Progress rept., 15 Jun 1962-31 Dec 1963
AD0452530	PRELIMINARY FLIGHT RATING TEST (PFRT) EVENT ACCOMPLISHMENT SUMMARY	9/16/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Tozer, C. W.]	211	[DN-D2-8200]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 SEP 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB191370	Assessment of Thermoelastic Analysis and Testing Applicable to the National Aero-Space Plane	7/1/1988	U	[C - 02,X - 57]	DYNAMIC ENGINEERING INC NEWPORT NEWS VA	[Friedman, Inger P.,Vosteen, Louis F.,Cooper, Michael J.,Gold, Ronald R.,Reed, III, Wilmer H.]	70	[NASP-CR- 1017]	[CR- 1017,NASP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; JUL 1988. Other requests shall be referred to National Aerospace Plane Joint Program Office, Wright-Patterson AFB, OH 45433. This document contains export-controlled technical data.	Technical rept.
AD0351020	DYNA SOAR STEP IIB RECONNAISSANCE SUBSYSTEMS	3/29/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Douglass, R. E.]	169	[D2-8056]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 29 Mar 1961. Other requests shall be referred to Department Of Defense (DoD), Attn: Public Affairs Office Washington, DC 20301., Availability: Document partially illegible.	Engineering progress rept.
AD0364399	RELIABILITY AND SAFETY REPORT	1/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	1	[ER-10370]	Not Available	Not Available	Not Available
AD0405312	GUIDANCE AND CONTROL EQUIPMENT FOR MINUTEMAN BIBLIOGRAPHY	3/31/1963	U	[C - 02]	AUTONETICS DOWNEY CA	Not Available	146	[EM-5544-1]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Ballistic Systems Division, Norton AFB, CA.	Rept. 30 Sep 1958-31 Mar 1963

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353200	PRELIMINARY DEFINITION OF GEOPHYSICAL AND ASTROPHYSICAL MEASUREMENTS IN DYNA SOAR STEP I	1/20/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Oncley, P. B.]	45	[D2-8173]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JAN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347909	PROGRAM PLAN. VOLUME 2. ENGINEERING PROGRAM TASKS. DYNA SOAR STEP-I	8/12/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	136	[ER-11337-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 AUG 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB214560	Research Vehicle Configurations for Hypervelocity Vehicle Technology. Cost and Operations Analysis of a Two-Stage-to-Orbit Launch System.	7/1/1996	U	[B - 03,X - 57]	BOEING DEFENSE AND SPACE GROUP SEATTLE WA	[Hagen, J. F.,Peffly, A. F.,Weldon, V. A.]	276	[WL*-TR-94- 3125]	[TR-94- 3125,WL/WP]	Distribution authorized to U.S. Gov't. agencies only; Critical Technology; Sep 92. Other requests shall be referred to WL/FIMA, Wright- Patterson AFB, OH 45433-7562., This document contains export-controlled technical data.	Final rept. Sep 92-Sep 95,
AD0347913	GLIDER PERFORMANCE CHARACTERISTICS REPORT	8/16/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	501	[D2-8080-1]	[NASA,AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Air Force Aeronautical Systems Division, DET 1, AFRL/WSCL (STINFO), 2261 Monahan Way, Wright-Patterson AFB, OH 45433-7035. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433824	X-20 DYNA-SOAR GLIDER	12/12/1963	U	[C - 02]	WESTINGHOUSE ELECTRIC CORP LIMA OH	Not Available	45	[14]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 DEC 1963. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301.	Qualification test status rept. for period ending 12 Dec 1963
AD0431035	BOOSTER DESIGN ANALYSIS FOR RELIABILITY. DYNA SOAR, STEP-1,	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Boss,R. E.]	92	[DS32 61rev. A]	Not Available	Not Available	Not Available
AD0431214	DEVELOPMENT TESTS OF X-20A SHF ANTENNAS AND WAVEGUIDES	11/21/1963	U	[D - 16]	BOEING CO SEATTLE WA	[Morchin, W. C.]	180	[T2-2641,CIO- 81205]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 21 NOV 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0337836	AEDC HOTSHOT 2 HYPERVELOCITY HEAT TRANSFER RATE AND PRESSURE TEST ON THE AD-463 M- 3 MODEL, A .200 SCALE MODEL OF THE NOSE, FORWARD OF STATION 154.2 OF THE X-20 DYNA-SOAR 2005 CONFIGURATION, AT M19 AND 22	6/12/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Brown, M. G.]	85	[D2-80882]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB273386	Coatings for Refractory Metals in Aerospace Environments	12/30/1964	U	[B - 03]	LOCKHEED MISSILES AND SPACE CO INC PALOALTO CA MATERIALS SCIENCES LAB	Not Available	58	Not Available	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Dec 1963. Other requests shall be referred to ASD, AFSC, WPAFB, OH 45433.	Progress rept. no. 2, 1 Sep 1963-30 Nov 1963
AD0348215	TECHNICAL REVIEW OF DYNA- SOAR I GUIDANCE AND CONTROL CONFIGURATION TRADE STUDY	5/24/1961	U	[C - 02,23]	MARTIN CO DENVER COLO	[Llewellyn,J. A.]	56	[TN DS8 61]	Not Available	Availability: Microfiche only after original copies exhausted.	Not Available
AD0324847	Study and Preliminary Design of an Energy Management Computer for Winged Re-Entry Vehicles.	7/1/1961	U	[C - 02]	BELL AEROSYSTEMS CO BUFFALO N Y	Not Available	1	[7078 935001]	Not Available	Not Available	Not Available
AD0311858	DYNA SOAR STEP II INITIAL BOOSTER PERFORMANCE AND DATA REQUIREMENTS	12/1/1960	U	[D - 16]	BOEING CO SEATTLE WA	[Toomey, J. F.]	130	[DN-D2-8134]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 01 DEC 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0363989	RESULTS OF 2.3% SCALE DYNA- SOAR STAGE I/STAGE II STATIC STAGING WIND TUNNEL TEST. VOLUME I	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Thomas,C.]	131	[ER-11-352-Vol- 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311862	MILITARY CONSTRUCTION/MODIFICATION FACILITIES PLAN	4/20/1961	U	[D - 16]	BOEING CO SEATTLE WA	Not Available	175	[DN-D2-5697 2]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 20 APR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0275830	PROBLEMS AND RESEARCH IN SPACE PSYCHOLOGY	4/24/1962	U	[C - 02]	NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA AVIATION MEDICAL ACCELERATION LAB	[Chambers, Randall M.]	96	[NADC-MA- 6145]	[NAVWEPS,BU MED]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 APR 1962. Other requests shall be referred to Naval Air Systems Command, Washington, DC 20362.	Not Available
AD0362473	DYNA SOAR STEP I PROGRAM	10/20/1961	U	[C - 02]	AEROJET- GENERAL CORP SACRAMENTO CALIF	Not Available	1	[613-2.2-Q-3]	Not Available	Not Available	Progress rept. for 1 Jul- 30 Sep 61.
ADB270975	The Development of Optimum Manufacturing Methods for Columbium Alloy Sheet. Item 1: Sub-Contract for the Development of Sheet Process for D-43 Alloy	7/15/1963	U	[B - 03]	CRUCIBLE STEEL CO OF AMERICA MIDLAND PA	Not Available	85	Not Available	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research Institute, 201 Mill Street, Rome, New York 13440.	Interim rept. no. 9, 15 Dec 1962-15 Jul 1963

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB283176	Notices of Changes in: Document Classification, Distribution and Availability, July-September 2002	9/1/2002	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.,Rogers, Zena D.]	153	[DTIC-OCQ-TR- 2002/05]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 Sep 2002. Other requests shall be referred to DTIC- OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Jul-30 Sep 2002
AD0432626	X-20 TERMINATION ENGINEERING DOCUMENTATION, VOLUME 3	12/13/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	109	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0432630	FAILURE MODE AND EFFECT ANALYSIS - REACTION CONTROL POWER COMPONENT. DYNA SOAR NO. 1,	2/15/1962	U	[C - 02]	TRW INC CLEVELAND OHIO	[Beatty,H. W. ,Jr.]	1	[ER4770]	Not Available	Not Available	Not Available
ADB193585	Space Ecological Systems 1960 - 1975	5/1/1960	U	[C - 02]	DOUGLAS AIRCRAFT CO INC SANTA MONICA CA MISSILE AND SPACE SYSTEMS DIV	[Konecci, Eugene B.]	21	Not Available	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 MAY 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311933	PASSIVE DETECTION OF MISSILES FROM THE DYNA SOAR	4/15/1959	U	[C - 02]	THOMPSON RAMO WOOLDRIDGE INC LOS ANGELES CA	Not Available	46	[C38/9S92]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 APR 1959. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0347769	DYNA SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM	3/13/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R1179PR2]	Not Available	Not Available	Monthly progress rept. no. 2, 1- 28 Feb 61.
AD0490370	ENGINEERING DATA FOR GROUND SUPPORT EQUIPMENT	4/7/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	407	[ER-11493]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1961. Other requests shall be referred to Air Force Ballistic Missile Division, Inglewood, CA.	Not Available
AD0428990	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM, SAFETY CHECK LIST	2/7/1964	U	[C - 02,23]	RAYTHEON CO WALTHAM MA	Not Available	17	[CR-64-408-24- 1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 7 Feb 1964. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0430772	SUMMARY OF X-20A MAJOR TECHNOLOGICAL BREAKTHROUGHS	1/28/1964	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	37	[D2-81249]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 JAN 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0356330	BOOSTER STRUCTURAL DESIGN SUMMARY. DYNA SOAR STEP I	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	155	[DS-30-61- REV A]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 AUG 1961. Other requests shall be referred to Space Systems Div., AFSC, Inglewood, CA.	Not Available
AD0347773	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM. THREE AXIS ERROR DETAILED SYSTEM ANALYSIS. PART II. INERTIAL SYSTEM PERFORMANCE - STEP I (FORTALEZA) FLIGHT	5/15/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	99	[1179SR7D]	Not Available	Not Available	Not Available
AD0432952	REFRACTORY COATING REPAIR PROCESSES	12/27/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Wyckoff, L. G.]	137	[D2-81116]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20008. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353199	AIRCREW TRAINING PLAN	6/19/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Cooper, J. L.]	29	[D2-5697-17]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 JUN 1961. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available
ADB240676	Notices of Changes in Classification, Distribution and Availability, December 1, 1998 - December 31, 1998	12/31/1999	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William B.,Leach, Yvette A.]	37	[DTIC/TR- 98/16]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Dec 98. Other requests shall be referred to DTIC- OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Technical rept. 1-31 Dec 98
AD0441899	DEVELOPMENT PERFORMANCE TEST GLYCOL TEMPERATURE AND HYDROGEN PRESSURE CONTROL 179140 BOEING X-20 (DYNA-SOAR) PART 10-20917-8,	1/13/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF	[Chase,A. B.]	24	[DS265]	Not Available	Release or announcement to forei.n governments ortheir nationals is not authorized.	Not Available
AD0335444	MISSION GUIDANCE AND ENERGY MANAGEMENT ANALYSIS REPORT	3/1/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	153	[D2-8088-3]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 MAR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0440741	SIZE 8 SERVO MOTOR FOR 4060L INDICATOR AS USED ON DYNA- SOAR PROGRAM,	12/26/1963	U	[C - 02]	LEAR SIEGLER INC GRAND RAPIDS MICH	[Zylstra,J.]	30	[GRR-910- J1F,IDEP- 532.29.40.06- F0-02]	[532.29.40.06- F0-02]	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0378767	INVESTIGATION OF ADVANCED FLIGHT CONTROL SYSTEMS THROUGH APPLICATION OF LINEAR SENSITIVITY TECHNIQUES. VOLUME II	12/1/1966	U	[C - 02,X - 57]	GENERAL ELECTRIC CO JOHNSON CITY NY AVIONIC CONTROLS BUSINESS SECTION	[Makers, D. T.,Haake, H. B.,Briggs, P.]	86	[AFFDL-TR-66- 142-VOL-2]	[TR-66-142- VOL-2,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific authority; Dec 1966. Other requests shall be referred to Air Force Flight Dynamics Lab, ATTN: FDCL, Wright- Patterson AFB, OH 45433., This document contains export-controlled technical data.	Final rept. Jun 1965-Jul 1966
AD0314558	FORCE TESTS OF THE BOEING S- 366I-1 DYNA-SOAR MODEL AT MACH NUMBER 8	1/1/1960	U	[C - 02,X - 57]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[CLARK, EDWARD L.,PAYNE, ROBERT G.]	56	[AEDC-TN-59- 166]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1960. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN. This document contains export-controlled technical data.	Not Available
AD0347844	EVALUATION OF TECHNICAL PROPOSALS FOR AN ALTITUDE REFERENCE SUB-SYSTEM	3/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	[Sefton,Harry B. ,Jr.]	1	[TN D2 59]	Not Available	Not Available	Not Available
AD0465947	STUDY OF HEATING METHODS FOR STRUCTURAL TESTING GREATER THAN 3000 F	4/1/1965	U	[C - 02]	GENERAL DYNAMICS SAN DIEGO CA CONVAIR DIV	[Schiff, Edward]	293	[AFFDL-TR-65- 13]	[TR-65- 13,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1965. Other requests shall be referred to Air Force Flight Dynamics Lab., Research and Technology Division, Wright-Patterson AFB, OH 45433.	Final rept., 1 Apr 1964-15 Mar 1965

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0490011	PRELIMINARY DYNA SOAR STRUCTURAL DESIGN CRITERIA - GEOPHYSICAL ENVIRONMENT	10/18/1960	U	[E - 04]	BOEING CO SEATTLE WA	[Eckblad, David M.]	75	[DN-D2-6966- 3]	[WADD]	Distribution authorized to DoD only; Administrative/Operational Use; 18 OCT 1960. Other requests shall be referred to Research and Technology Div., Attn: SENX-A, Wright- Patterson AFB, OH 45433.	Not Available
AD0315218	FORCE, HEAT TRANSFER, AND PRESSURE DISTRIBUTION TESTS OF MARTIN-BELL DYNA-SOAR GLIDER MODELS AT MACH NUMBERS 15 - 21	2/1/1960	U	[C - 02]	ARO INC ARNOLD AFS TN	[WALLACE, A. R.,SWAIN, W. N.]	76	[AEDC-TN-60- 25]	[TN-60- 25,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1960. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389 2305.	Not Available
AD0400831	CONFIGURATION MANAGEMENT PLAN	1/11/1963	U	[C - 02]	MARTIN CO DENVER CO	Not Available	175	[SSD-CR-63-11]	[CR-63- 11,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to Air Force Systems Command, Space Systems Division, Los Angeles, CA.	Not Available
ADB238965	C-5 Modernization: Is It the Best Value for AMC?	6/1/1998	U	[B - 03]	AIR FORCE INST OF TECH WRIGHT- PATTERSONAFB OH	[Armstrong, Dennis M.]	86	[AFIT/GMO/LA L/98J-1]	[AMWC]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; 1998. Other requests shall be referred to Air Force Institute of Technology/LAC, Wright-Patterson AFB, OH 45433-7765.	Master's thesis,

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0426021	MISSILES AND VENTURES INTO SPACE PROGRESS REPORT 1962- 1963	10/1/1963	U	[C - 02,23]	DEPARTMENT OF THE ARMY WASHINGTON DC	Not Available	131	[DA-PAM-70-5- 11]	[PAM-70-5- 11,DA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1963. Other requests shall be referred to Department of the Army, Attn: Public Affairs Office, Washington, DC 20310. Document partially illegible.	Army pamphlet
AD0332997	AN INVESTIGATION OF THE SUBSONIC AERODYNAMIC CHARACTERISTICS AND THE LANDING FLARE MANEUVER FOR HYPERSONIC RE-ENTRY CONFIGURATIONS (U)	8/1/1962	U	[C - 02]	LOCKHEED AIRCRAFT CORP BURBANK CA	[SEAGER, D. B.,MEYER, J. E.]	243	[TDR-62-271- LR-15693,ASD- TDR-62-271]	[TDR-62-271]	Distribution authorized to U.S. Gov't. agencies and their contractors; Operational and administrative use; Aug 1962. Other requests shall be referred to Aeronautical Systems Division, Flight Dynamics Lab., Wright-Patterson AFB, OH, 45433.	Not Available
AD0224541	Aviation and Cosmonautics	9/1/1963	U	[C - 02]	FOREIGN TECHNOLOGY DIV WRIGHT- PATTERSON AFB OH	Not Available	151	[FTD-ST-63-9]	[ASC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1963. Other requests shall be referred to Foreign Technology Division, Air Force Systems Command, Wright-Patterson AFB, OH.	Not Available
AD0311717	CRITIQUE OF AIR FORCE ' 'SPACE SYSTEM DEVELOPMENT PLAN - DYNA SOAR PROGRAM' ' - ARDC DOCUMENT NO. 60RDZ-982	5/26/1960	U	[E - 04,23]	BOEING CO SEATTLE WA	[Barlow, L. B.,Goldie, J. H.,Reischl, E. W.]	128	[DN-D2-6321]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 26 MAY 1960. Other requests shall be referred to Research and Technology Div., Attn: SENX-A, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0325084	Environmental Control Subsystem Preliminary Design Configuration.	12/1/1961	U	[F - 05]	BOEING CO SEATTLE WASH	[OLSEN,R.K.]	1	[D2 8125 1]	Not Available	Not Available	Not Available
AD0353202	DYNA-SOAR STEP 2A PLANNING AND ANALYSIS SYSTEM PACKAGE PROGRAM FOR DYNA-SOAR STEP 2A	6/20/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	488	[D2-80490-1]	[WRDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Air Force Dyna-Soar System Program Office, Wright- Patterson AFB, OH 45433. Document partially illegible.	Final rept.
AD0326707	BASE HEATING AND ENGINE HINGE- MOMENT INVESTIGATION OF AN 11.6-PERCENT SCALE DYNA-SOAR BOOSTER WITH LIQUID PROPELLANT ROCKET ENGINES	11/1/1961	U	[C - 02,23]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[BAKER, D. C.,GALIGHER, L. L.]	67	[TN-61-142]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1961. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFS, TN 37389. Document partially illegible.	Not Available
AD0441902	TECHNICAL DEVELOPMENT SPECIFICATION FOR BAND PASS AMPLIFIER.	4/24/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	7	[TDS2546 03 11]	Not Available	Release or announcement to foreign governments or their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0345914	APPLIED RESEARCH INVESTIGATION OF THE SUPER SONIC/HYPERSONIC COMBUSTION RAMJET ENGINE	12/10/1963	U	[C - 02,23]	MARQUARDT CO VAN NUYS CA	[Brown, M. L.,Campbell, R. C.]	536	[ASD-TDR-63- 590]	[TDR-63- 590,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 DEC 1963. Other requests shall be referred to Air Force Aeronautical Systems Command, Attn: Aero- Propulsion Laboratory, Wright-Patterson AFB OH 45433. Document partially illegible.	Final summary rept., 1 Jan- 31 Dec 1962
AD0347736	X-20 (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM	1/4/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179SR21 rev. A]	Not Available	Not Available	Not Available
AD0432915	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT.	12/13/1963	U	[C - 12,23]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	156	[DSR23]	Not Available	Distribution: DDC users only. Availability: Microfilm only after original copies are exhausted.	Monthly development status rept., 1 Oct-13 Dec 63.
AD0401455	SYNTHESIS AND EVALUATION OF THERMALLY STABLE POLYMERS, PART I. POLYMER SYNTHESIS. PART II. POLYMER EVALUATION	1/1/1963	U	[C - 02]	GENERAL ELECTRIC CO SCHENECTADY NY	[BROWN, G. P.,GOLDMAN, A.]	126	[WADD-TR-61- 255-PT-3]	[TR-61-255-PT- 3,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1963. Other requests shall be referred to Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431037	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. AIR LAUNCH TEST OPERATION PLAN,	10/17/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Redmond,J. P.]	1	[1179SR32]	Not Available	Not Available	Not Available
AD0347740	KEY DEVELOPMENT AREAS OF THE X-20 (DYNA-SOAR)	1/1/1962	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	[Keating,Trista n J.]	1	Not Available	Not Available	Not Available	Not Available
AD0337408	FORCE AND HINGE MOMENT TEST ON THE .0666 SCALE AD-600I-3 MODEL	5/20/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Wetzel, George R.]	634	[D2-80481]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 MAY 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Data rept
AD0311864	DYNA SOAR STEP 1	10/20/1960	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	518	[DN-D2-7326- 2]	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 OCT 1960. Other requests shall be referred to Wright Air Development Div., Attn: WWDR, Wright- Patterson AFB, OH 45433.	Program progress rept., Aug- Sep 1960

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0448032	GROUND SUPPORT SYSTEM SPECIFICATION (TEST OPERATION PLAN) PART II. MAINTENANCE ANALYSIS SPECIFICATION (TEST OPERATION PLAN) VOLUME I AIR VEHICLE REQUIREMENTS. DYNA SOAR. STEP-I,	7/17/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams,S.]	320	[ER11345,vol. 1 pt. 2]	Not Available	Not Available	Not Available
ADB325428	Notices of Changes in: Document Classification, Distribution and Availability, October-December 2006	12/1/2006	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa]	203	[DTIC-OQ-TR- 2007/01]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 DEC 2006. Other requests shall be referred to Defense Technical Information Center, ATTN: OQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. 1 Oct- 31 Dec 2006
AD0431968	DEVELOPMENT OF OXIDATION RESISTANT COATINGS FOR MOLYBDENUM	12/27/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Gunderson, Joseph M.]	159	[D2-81109]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				BURBANK	F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]		12-VOL-3]	3,AFFUL]	AFB, OH 45433.	
AD0445617	MAINTENANCE ANALYSIS SPECIFICATION (PLAN) MASP (TEST PLAN), PART 2, VOLUME 1. REVISION A. ROCKET ENGINE SUBSYSTEMS DYNA SOAR BOOSTER	6/15/1961	U	[C - 02,23]	AEROJET- GENERAL CORP AZUSA CA	Not Available	184	[AGC-DS-I-302]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 JUN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Analysis
ADB349982	Technical Operations Support III (TOPS III). Delivery Order 0043: Hybrid Materials Integration	3/1/2009	U	[B - 03,X - 57]	EDISON WELDING INST COLUMBUS OH	[Ritter, George]	105	[AFRL-RX-WP- TR-2009-4170]	[TR-2009- 4170,AFRL-RX- WP]	Distribution authorized to U.S. Gov't. agencies only; Critical Technology; MAR 2009. Other requests shall be referred to Air Force Research Lab., Attn: AFRL/RXB, Wright-Patterson AFB, OH 45433-7750. This document contains export- controlled technical data.	Final rept. 31 Aug 2007-31 May 2009
AD0432628	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT TEST STATUS.	5/15/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Rand,L. T.]	93	[DSR 7]	Not Available	Not Available	Not Available
AD0342110	TRANSONIC LOCAL AND INTEGRATED BOOSTER BUFFET LOADS ON A 6.67% MODEL OF THE 624A VEHICLE WITH X-20 AND BULBOUS PAYLOADS VOLUME 1. SUMMARY	1/1/1963	U	[C - 02,23]	MARTIN CO BALTIMORE MD	[Case, W.,Stouffer, C. G.,Rowe, W. H.]	153	[ER13024,VOL. 1,SSD-CR63- 163-VOL-1]	[CR63-163- VOL-1,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1963. Other requests shall be referred to Commander, Air Force Systems Command, Attn: SSD, Los Angeles AFB, CA 90009-2960. Document partially illegible.	Not Available
AD0318527	DYNA-SOAR. TRAINING REPORT	3/1/1959	U	[E - 04]	MARTIN CO BALTIMORE MD	Not Available	1	[ER10377]	Not Available	Distribution: DoD only: others to Hq., Wright Air Development Div. attn: WWZRA. Wright- Patterson AFB, Ohio.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0334822	STRUCTURAL DESIGN CRITERIA FOR STAGE SEPARATION	1/1/1963	U	[C - 02]	MARTIN CO ORLANDO FL	[HAHN, P. G.]	273	[ASD-TR-61- 671]	[TR-61- 671,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available
AD0348109	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM OPERATION AND MAINTENANCE INSTRUCTIONS	3/15/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	396	[1179M1B vol. 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB310939	Hypersonic Aerospace Sensor Technology (HAST) Program Summary	7/19/2005	U	[D - 16,X - 57]	AIR FORCE RESEARCH LAB HANSCOM AFB MA SENSORS DIRECTORATE/E LECTROMAGNE TICS TECHNOLOGY DIV	[Ernstmeyer, James,Blaney, Eric,O'Donnell , Teresa,Taniga wa, Timothy,Figuei redo, William,Geisel , Christopher,H aren, Raymond,Jaco bs, Denice,Kreh, Bret,Mossman , Jason]	129	[AFRL-SN-HS- TR-2005-027]	[AFRL-RY-HS]	Distribution authorized to DoD and DoD contractors only; Specific Authority; 25 APR 2005. Other requests shall be referred to Air Force Research Lab., Attn: SNH, 80 Scott Dr., Hanscom AFB, MA 01731. This document contains export-controlled technical data.	Final rept. 1 Oct 2003-1 Apr 2005
AD0429151	AN INVESTIGATION OF THE COEFFICIENTS OF FRICTION AND WEAR PROPERTIES OF CERMET MATERIAL PROPOSED FOR THE X- 20A NOSE GEAR SKID	12/29/1964	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CA	[Tebben, Gerald D.]	46	[AFFTC-TDR-63- 20]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 DEC 1963. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA 93523.	Technical documentary rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0352505	X-20 (DYNA-SOAR)	7/20/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	62	[D2-7326-19]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Quarterly summary progress rept. Apr-Jun 1963
ADB206740	The Conference on Aerospace Expandable Structures Held in Dayton, Ohio on 23-25 October 1963.	10/1/1963	U	[C - 12,23]	AIR FORCE AERO PROPULSION LAB WRIGHT- PATTERSON AFB OH	Not Available	721	Not Available	[XD]	Distribution: DTIC users only., Availability: Document partially illegible.	Not Available
AD0269506	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	9/15/1961	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	1	[10 81000 RB]	Not Available	Not Available	Not Available
AD0360545	Satellite Rendezvous Guidance System Study	11/30/1961	U	[C - 02]	MASSACHUSETT S INST OF TECH CAMBRIDGE INSTRUMENTAT ION LAB	[Sears, N. E.]	101	[R-344]	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 NOV 1961. Other requests shall be referred to Navigation and Guidance Lab., Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Supplemental rept., 1 May- 30 Nov 1961

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0323050	Liquid Oxidizers	12/1/1960	U	[C - 02]	CALLERY CHEMICAL CO PITTSBURGH PA	[Marshall, M. D.,Lewis, L. L.,Zanieski, W. E.,Bratton, R. F.,Bernauer, W. H.,Scarpiello, D. A.,Cooper, W. J.,Ludwig, J. R.,Galbraith, H. J.]	69	Not Available	[NAVWEPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1960. Other requests shall be referred to Bureau of Aeronautics, Department of the Navy, Washington, DC 20350.	Final summary rept. 1 Jan-31 Dec 1960
AD1084489	Journal of DoD Research and Engineering. Volume 2, Issue 3, December 2019. Special Edition - Hypersonics	12/16/2019	U	[E - 04,X - 57]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR United States	Not Available	171	Not Available	Not Available	DoD Components only;Critical Technology;,16 Dec 2019.Other request shall be referred to Defense Technical Information Center,Ft. Belvoir,VA,22060,Defense Technical Information Center.This document contains export-controlled technical data.	Journal Article - Embargoed Full-Text
ADB185085	Thin Multi-Layer Protective Coatings Proposal	1/1/1959	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[Starr, G. A.,Wood, W. W.]	64	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1959. Other requests shall be referred to Defense Public Affairs Office, DFOISR, Washington, DC 20301.	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	---	-----------	---	----------	--	--	-----	---	---------------------------	---	--
AD0364300	AERODYNAMIC FORCE AND MOMENT TEST RESULTS OF A 2% 624A (TITAN III) FIN DEVELOPMENT WIND TUNNEL MODEL AT MACH NUMBERS FROM 0.6 TO 4.65	11/1/1962	U	[C - 02]	MARTIN CO DENVER COLO	[Rowe,W. H. ,Jr.,Torres,D. T.]	174	[ER 12569,SSD- CR-63-9]	Not Available	Not Available	Not Available
AD0487137	RADIATION EFFECTS ON SOLID PROPELLANTS: AN ANNOTATED BIBLIOGRAPHY	8/1/1966	U	[C - 02]	LOCKHEED MISSILES AND SPACE CO INC PALO ALTO CA	[Abbott, Helen M.]	39	[LMSC-LS-66- 17]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1966. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Literature search
AD0490013	GENERAL REQUIREMENTS FOR SUBCONTRACTOR MOTION PICTURE PHOTOGRAPHY REPORTS	9/1/1960	U	[D - 16]	BOEING CO SEATTLE WA	[Smith, Charles G.]	14	[DN-D2-7792]	[ASD/WPAFB]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; SEP 1960. Other requests shall be referred to Aeronautical Systems Division, Attn: ASZRA, Wright-Patterson AFB, OH 45433.	Not Available
AD0433936	X-20 (Dyna-Soar) Nose Cap	1/1/1964	U	[C - 02]	LING-TEMCO- VOUGHT INC DALLAS TX	[While, D. M.]	16	[311.25]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; Jan 1964. Other requests shall be referred to U.S. Air Force, STINFO, Washington, DC.	Monthly technical progress rept., 15 Oct- 15 Nov 1963,

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0810508	AFFTC EXPERIENCES WITH HYBRID COMPUTATION IN A REAL-TIME SIMULATION OF THE X-15A-2	3/1/1967	U	[C - 02,X - 57]	AIR FORCE TEST CENTER EDWARDS AFB CA	[Lyons, Austin J.]	52	[AFFTC-TR-66- 44]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1967. Other requests shall be referred to Air Force Flight Test Center, Attn: FTTER. Edwards AFB, CA 93523. This document contains export- controlled technical data.	Final rept.
AD0432671	RFI DEVELOPMENT DATA REPORT. X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/10/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 30 1]	Not Available	Not Available	Not Available
AD0261859	DESIGN, DEVELOPMENT, AND FABRICATION OF EIGHT (8) PROTOTYPE MODEL FULL PRESSURE SPACE SUIT ASSEMBLIES	3/17/1961	U	[C - 02]	GOODRICH (B F) AEROSPACE AND DEFENSE PRODUCTS AKRON OH	[CARDARELLI, N. F.,BEBOUT, R. W.]	18	Not Available	[BUAER]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 17 Mar 1961. Other requests shall be referred to Bureau Of Aeronautics (Navy), Washington DC.	Engineering rept. no. 10, 16 Feb-15 Mar 1961
AD0353204	DS-1 STANDARD AIRCRAFT CHARACTERISTICS	9/7/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Risdal, R. E.]	21	[D2-8079]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 SEP 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0345916	DATA REPORT, AEDC-C-BC-9, MACH 10 HEAT TRANSFER AND PRESSURE TEST OF THE AD-609M- 2, A 0.05 SCALE MODEL OF THE X- 20 DYNA-SOAR GLIDER	9/18/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Trussell, Donald R.]	698	[D2-80898-VOL 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 SEP 1973. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0347738	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. VOLUME II, APPENDIX A AND B	9/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Jones,M. D.]	1	[1179SR30 vol. 2]	Not Available	Not Available	Final flight test rept. 14 Dec 62-26 June 63,
AD0432917	DESIGN ANALYSIS OF DYNA-SOAR MODEL 876C APU GEARBOX, LUBRICATION SYSTEM, PROPELLANT PLUMBING AND MOUNTING LINKS.	12/13/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	40	[23DER62 rev. B]	Not Available	Not Available	Not Available
AD0431039	X-20 (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM ENVIRONMENTAL TEST PLAN,	12/14/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Milnes,R.,TaK asugi,J.]	1	[1179SR18]	Not Available	Not Available	Not Available
AD0347921	PROGRAM PLAN. VOLUME I. PROGRAM MANAGEMENT AND SUPPORT. DYNA SOAR, STEP-I	8/12/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	236	[ER-11337-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 AUG 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	- [TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	VEHICLES. VOLUME 3 - TECHNICAL				BURBANK	F.,Guard, F.		3,AFFDL-TR-66- 12-VOL-3]	· 3,AFFDL]	AFB, OH 45433.	
	DISCUSSIONS					L.,Linneman,					
						R.,Perlmutter,					
						J. I.]					
AD0280031	A Mathematical Analysis of a	11/1/1961	U	[C - 02]	RHODE ISLAND	[Kane, Julius]	30	[URI-7983-	[991,ERD-	Distribution authorized to U.S. Gov't. agencies	Scientific
	Surface Wave Antenna of Finite				UNIV KINGSTON	I		1,AFCRL-991]	CRRC]	and their contractors;	rept.
	Length				DEPT OF					Administrative/Operational Use; NOV 1961.	
					ENGINEERING					Research Directorate, Air Force Cambridge	
										Research Laboratories, Hanscom AFB, MA.	
AD0348223	X-20 PROPAGATION TECHNICAL	3/5/1964	U	[C - 02]	BOEING CO	[Schorsch, J.	83	[D2-8031-3]	[USAF]	Distribution authorized to U.S. Gov't. agencies	Not Available
	REPORT - ION SHEATH STUDIES				SEATTLE WA	F.,Andreika, J.				and their contractors;	
						1.]				Other requests shall be referred to Department	
										of the Air Force, Attn: Public Affairs Office,	
										Washington, DC 20330.	
ADB223622	Infrared Background and Target	9/1/1958	U	[C - 12]	HUGHES	[Stroup, R. E.]	38	[TM-518]	[XD]	Distribution: DTIC users only.	Technical
	Characteristics of ICBM and Space										memo.
	venicies.				COLVEN CITT CA						
AD0341273	AEROTHERMODYNAMIC ANALYSIS	8/10/1961	U	[C - 02]	BOEING CO	Not Available	586	[D2-8108]	[ASD]	Distribution authorized to U.S. Gov't. agencies	Not Available
	REPORT				SEATTLE WA					and their contractors;	
										Administrative/Operational Use; 10 AUG 1961. Other requests shall be referred to Aeronautical	
										Systems Div., Wright-Patterson AFB, OH 45333.	

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0430884	GLIDER AND GLIDER/BOSTER TRANSITION STATIC TEST REQUIREMENTS	1/1/1944	U	[C - 02,23]	BOEING CO SEATTLE WA	[Rounds, D. A.]	37	[D2-6793-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1977. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0347885	GLIDER/TRANSITION DETAIL SPECIFICATION	12/13/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Leffingweld, D.]	481	[D2-80600]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
ADB193450	NASP Special Study on Crew Escape	10/1/1987	U	[C - 02,X - 57]	ROCKWELL INTERNATIONAL EL SEGUNDO CA NORTH AMERICAN AIRCRAFT DIV	[Wurst, S. G.]	142	[RI-NA-87- 1534,ASC*-TR- 94-9552]	[TR-94- 9552,ASC*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; APR 1988. Other requests shall be referred to ASC/NAE, Wright-Patterson AFB, OH 45433- 7644. This document contains export-controlled technical data.	Final rept.,
AD0347276	X-20A (DYNA-SOAR) PGS FLIGHT TEST PERFORMANCE RESULTS	6/1/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	11	[1179P1]	Not Available	Not Available	Summary rept.

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
ADB298349	NIKE ZEUS and the Missile Defense Problem	6/20/1960	U	[E - 04]	ARMY ROCKET AND GUIDED MISSILE AGENCY REDSTONE ARSENAL AL	Not Available	62	[RHM-Z-7-60]	[ARGMA]	Distribution authorized to DoD only; Administrative or Operational Use; Jun 1960. Other requests shall be referred to U.S. Army Ordnance Missile Command, Redstone Arsenal, AL. Pre-dates formal DoD distribution statements. Treat as DoD only.	Not Available
AD0347634	ANALYTICAL STUDY OF PILOT UTILIZATION DURING BOOST FOR DYNA SOAR-STEP I	9/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Hookway,R. O.,Llewellyn,J. A.]	1	[ER11917]	Not Available	Not Available	Not Available
AD0432634	INSULATED PANEL DEVELOPMENT DYNA-SOAR - RADIANT HEAT, STATIC STRENGTH AND ACOUSTIC VIBRATION TESTING	10/18/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Darcy, Kenneth E.]	253	[D2-80080- SECTION-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 OCT 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0431902	DYNA SOAR STEP-I. LAUNCH COMPLEX FACILITY DESIGN CRITERIA FOR DYNA SOAR	6/21/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams, S.]	298	[ER-11356A]	[AFMTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1961. Other requests shall be referred to Air Force Missile Test Center, Patrick AFB, FL.	Not Available
AD0347280	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM	7/20/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR7]	Not Available	Not Available	Quarterly progress rept., April- June 63.
AD0446180	DYNA SOAR STEP I. SPECIFICATION FOR THE BOOSTER SYSTEM MOCKUP,	6/28/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Maag,K. R.]	19	[MB565]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0290569	THE PREPARATION OF CERTAIN HETEROCYCLIC POLYMERS BY AN ALTERNATING INTRAMOLECULAR- INTERMOLECULAR CHAIN PROPAGATION	9/1/1962	U	[C - 02]	FLORIDA UNIV GAINESVILLE	[BUTLER, GEORGE B.,HAUSER, CHARLES F.,IACHIA, BRUNO,BOND JR, WILLIAM C.]	67	[ASD-TR-61- 237-PT-2]	[TR-61-237-PT- 2,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Sep 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Technical rept.
AD1087085	High-Speed Air and Responsive Space Vehicles Technologies (HARSVT) Task Order 0001: Reusable Booster System Technology Analysis, Applications and Studies (RBS-TAAS)	4/1/2018	U	[B - 03,X - 57]	DAYTON UNIV RESEARCH INST DAYTON United States	[Beglin,W.,Fre de,M.,Frank,G .,Fry,T.,Hardy, G.,Andrew,J.,V ecera,A.,Schen a,R.,Bradford,J .,Feld,K.,Schaff er,M.,St. Germain,B.,Ca stro,J.,Lorang, T.,Klaput,T.,Ph illips,T.]	884	[UDR-TR- 2018,AFRL-RQ- WP-TR-2018- 0090]	[AFRL-RQ-WP- TR-2018- 0090]	U.S. Government agencies only;Critical Technology;,01 Apr 2018.Other request shall be referred to Air Force Research Laboratory,Wright-Patterson AFB,OH,45433- 7542,Air Force Research Laboratory.This document contains export-controlled technical data.	Technical Report,20 Apr 2011,20 Apr 2018

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0298080	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	9/15/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[BOTTEM, J. M.,MILL, B. S.]	20	[DIO-81000]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 SEP 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0434026	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT,	2/15/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	177	[DSR16]	Not Available	Not Available	Not Available
AD0816554	RETRIEVAL OF AERODYNAMIC HEATING INFORMATION. PART 1. UNCLASSIFIED MATERIAL	3/1/1967	U	[C - 02,X - 57]	NAVAL ORDNANCE TEST STATION CHINA LAKE CA	[Van Aken, Ray W.,Martin, Charles M.]	615	[NOTS-TP-4137 PT-1]	[NOTS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; MAR 1967. Other requests shall be referred to Naval Ordnance Test Station, China Lake, CA 93555. This document contains export-controlled technical data.	Bibliography rept.
AD0353243	PRELIMINARY VIBRATION AND FLUTTER ANALYSIS REPORT - GLIDER	9/5/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Golden, C. T.,Sherman, L. L.]	131	[D2-8123-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 05 SEP 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0430955	X-20 CTS DESCRIPTION. X-20 (DYNA- SOAR) COMMUNICATIONS AND T(ACKING SUBSYSTEM.	6/30/1963	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	1	[6A,CR63 4087 6 2 1]	Not Available	Not Available	Not Available
AD0347777	DYNA-SOAR (STEP 1) PRIMARY GUIDANCE SUBSYSTEM	7/10/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179PR6]	Not Available	Not Available	Quarterly progress rept., 1 Apr- 30 June 61.
AD0309116	STATIC STABILITY AND PRESSURE DISTRIBUTION TESTS OF MARTIN- BELL DYNA-042550SOAR CONFIGURATIONS AT MACH 8	7/1/1959	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[PALKO, R. L.,RHUDY, R. W.,FITCH, C. R.]	45	[TN-59-67]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1959. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB TN 37389.	Not Available
AD0347960	ABBREVIATED DEVELOPMENT PLAN FOR SYNA SOAR	11/16/1961	U	[C - 02,23]	DEPUTY COMMANDER AEROSPACE SYSTEMS INGLEWOOD CA	Not Available	59	[DCAS-DCL-15]	[DCL- 15,DCAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 NOV 1961. Other requests shall be referred to Air Force Systems Command, Deputy Commander for Aerospace Systems, Inglewood, CA. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB400253	Short-Term Aerospace Research and Development Program (STAR- DP). Task Order 0003: Academic and Industry Short-Term Aerospace Research and Development	10/1/2013	U	[B - 03,X - 57]	UNIVERSAL TECHNOLOGY CORP DAYTON OH	[Rucker, Roger]	675	[AFRL-RQ-WP- TR-2014-0152]	[TR-2014- 0152,AFRL-RQ- WP]	Distribution authorized to U.S. Gov't. agencies only; Critical Technology; Proprietary Information; OCT 2013. Other requests shall be referred to Air Force Research Lab., Attn: AFRL/RQQP, Wright-Patterson AFB, OH 45433- 7541. This document contains export-controlled technical data.	Final rept. 2 May 2012-30 Sep 2013
AD0416235	STUDY AND DEVELOPMENT OF AN ELECTIC SIDE STICK CONTROLLER FOR AEROSPACE VEHICLES	5/1/1962	U	[C - 02]	HONEYWELL INC MINNEAPOLIS MN	[raves, Harry C.,Bailey, A.James,Melle n, David L.]	138	[ASD-TR-61- 603]	[TR-61- 603,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1962. Other requests shall be referred to Aeronautical Systems Div., AFSC, Wright-Patterson AFB, OH 45433.	Final rept. July 1960-July 1961
ADB274626	The Synthesis of Boron Carbide Filaments	1/10/1964	U	[B - 03]	GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE DIV	[Gatti, A.,Cree, R.,Feingold, E.,Mehan, R.]	25	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Jan 1964. Other requests shall be referred to NASA, Washington, DC 20546.	Quarterly rept. no. 2
AD0355570	DEVELOPMENT OF A HIGH ENERGY SOLID PROPELLANT FORMULATION	11/12/1964	U	[C - 02]	THIOKOL CHEMICAL CORP ELKTON MD	[Gallagher, J. P.,Biddle, R. A.,Sarner, S. F.,DeWitt, I. L.,Dragun, H. L.]	197	[E32-64]	[AFRPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1964. Other requests shall be referred to Air Force Rocket Propulsion Laboratory, Edwards AFB, CA.	Final rept. 17 Jun 1963-16 Feb 1964

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0338109	HEAT TRANSFER TEST ON AD588M- 1, A .04 SCALE, X-20 DYNA-SOAR 844-2050 CONFIGURATION, TO DETERMINE THE EFFECT OF VARIOUS SURFACE CONTOURS AND ELEVON - FIN GAP SIZES ON HEAT TRANSFER RATES ON THE LOWER INBOARD FIN SURFACE AND ADJACENT ELEVON SURFACE AT M 22.2	6/21/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Mueller,Wern er W.]	1	[D2-80871- V2,BHST044- V2]	Not Available	Not Available	Not Available
AD0343062	BASE HEATING AND BASE PRESSURE INVESTIGATION OF A 5.5- PERCENT-SCALE TITAN III BOOSTER WITH SOLID-PROPELLANT BOOSTER MOTORS	10/1/1963	U	[C - 02,23]	ARO INC ARNOLD AFS TN	[Baker, D. C.]	47	[AEDC-TDR-63- 194]	[TDR-63- 194,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Oct 1963. Other requests shall be referred to the Arnold Engineering Development Center, Arnold AFS, TN., Availability: Document partially illegible.	Not Available
AD0430851	DYNA SOAR (STEP I) COMMUNICATIONS AND TRACKING SUBSYSTEM.	1/18/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR62 408 13 1 1]	Not Available	Not Available	Reliability analysis rept.
AD0490015	HYDRAULIC PUMP REQUIREMENTS	8/16/1960	U	[E - 04]	BOEING CO SEATTLE WA	[Bjorkstam, A. L.,Hull, J. W.]	35	[DN-D2-7616]	[WADD]	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Wright Air Development Division, Attn: WWDR, Wright- Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433938	X-20 (DYNA SOAR) NOSE CAP	12/15/1963	U	[C - 02]	LTV AEROSPACE CORP DALLAS TX LTV ASTRONAUTICS DIV	[While, D. M.]	32	[311.27]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use;Dec 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Quarterly technical progress rept., 15 Sep- 15 Dec 1963
AD0461523	MODEL 876C AUXILIARY POWER UNIT AND AUXILIARY POWER UNIT TEMPERATURE PROBE.	4/1/1965	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	201	[APL-TR-65-30]	[TR-65-30]	Not Available	Technical rept., 1 Jun- 31 Dec 64.
ADB182425	Available Power Systems for Space Vehicles	11/1/1959	U	[C - 02]	VICKERS INC TORRANCE CA	[Howard, Harris J.,McJones, Robert W.]	24	[1032-59]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1959. Other requests shall be referred to Defense Public Affairs Office, Attn: DFOISR, Washington, DC 20301.	Not Available
AD0429192	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM.	10/30/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Dubendorff,H . H.]	1	[Aero 1179SR34A]	Not Available	Not Available	Interim vibration test rept.,
AD0235175	SELECTED BIBLIOGRAPHY OF HUMAN FACTORS REPORTS	11/25/1959	U	[C - 02]	HONEYWELL INC MINNEAPOLIS MN	[HUNTINGTON , JANE M.]	22	[U-ED-6147]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 Nov 1959. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC, 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL	-[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F.		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
						E. R.,Perlmutter,					
						J. I.]					
ADB271861	Expandable Structures for Aerospace Applications	11/1/1962	U	[B - 03]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH FLIGHT ACCESSORIES LAB	[Forbes, F. W.]	137	[2697]	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Nov 1962. Other requests shall be referred to NASA, Washington, DC 20546	Conference rept. 13-18 Nov 1962
AD0340647	DYNA-SOAR STEP II LAUNCHING. SYSTEM EVALUATION	8/21/1961	U	[F - 05]	AEROSPACE CORP EL SEGUNDO CALIF	[Gustavson,R. G.,Giacobine,C . R.]	93	Not Available	Not Available	Notice: All requests require approval of Space Systems Division, AF Unit P. O., LosAngeles 45, Calif. Attn: SSVS.	Not Available
AD0351026	EXTERNAL LOADS REPORT (GLIDER AND TRANSITION - PRELIMINARY) (INCOMPLETE)	7/26/1961	U	[C - 02]	BOEING CO SEATTLE WASH	[Boll,Robert T.]	116	[D2 8121]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0353206	ACCELERATION OF DYNA SOAR PROGRAM	1/9/1961	U	[C - 02]	BOEING CO SEATTLE WASH	Not Available	64	[23 6485]	Not Available	Not Available	Not Available
AD0491069	GLIDER UTILIZATION OF TITAN CHECKOUT EQUIPMENT AT AFMTC LAUNCH COMPLEX	7/20/1960	U	[C - 02,23]	AIR FORCE MISSILE TEST CENTER PATRICK AFB FL	[Hlovac, F. W.]	18	[AFMTC-DS-6- 60]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JUL 1960. Other requests shall be referred to Air Force Ballistic Missile Division, Inglewood, CA. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353210	DYNA-SOAR STEP I	2/17/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	90	[D2-7326-6]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 FEB 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Program progress rept. for period ending Jan 1961
AD0441910	TECHNICAL DEVELOPMENT SPECIFICATION FOR COMMAND SIGNAL LIMITER MONITOR.	2/19/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	7	[TDS2546 03 38]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0347919	DYNA SOAR STEP I. BOOSTER FLIGHT CONTROL SYSTEM SPECIFICATION	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Akre,R. C.]	30	[MB568]	Not Available	Not Available	Not Available
AD0432919	INDICATOR - ANGLE OF ATTACK	7/14/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	30	[10-20930]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 JUL 1961. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC.	Not Available
ADB343410	Notices of Changes in: Document Classification, Distribution and Availability, Jul-Aug-Sep 2008	9/1/2008	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence]	605	[DTIC-OQ-TR- 2009/01]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 SEP 2008. Other requests shall be referred to Defense Technical Information Center, ATTN: OQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. for 1 Jul- Aug-Sep 2008

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0444213	GLIDER TECHNICAL/FUNCTIONAL LAUNCH AREA SUPPORT REQUIREMENTS	3/15/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	159	[D2-80566]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 MAR 1963. Other requests shall be referred to Aeronautical Systems Center, Wright-Patterson AFB, OH 45443. Document partially illegible.	Not Available
ADB249423	Proceedings of the First Weight Prediction Workshop for Advanced Aerospace Design Projects.	4/2/1965	U	[C - 12]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Kasten, H. G.]	280	Not Available	[ASD]	Distribution: DTIC users only.	Not Available
ADB319401	Notices of Changes in: Document Classification, Distribution and Availability, April-June 2006	6/1/2006	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa]	237	[DTIC-OQ-TR- 2006/05]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; JUN 2006. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Apr- 30 Jun 2006
AD0347887	D. S. NAVIGATION AND DISPLAY COMPUTATIONS	12/27/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	[Cunningham, Downey,Baran , Gregory]	139	[D2-8170]	[SAF/PAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 12 DEC 1960. Other requests shall be referred to Air Force Public Affairs Office, Attn: SAF/PAS, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL	-[TR-66-12-VOI	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5, 1, 1550			CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
AD0342902	X-20 (Dyna-Soar)	1/20/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	55	[D2-7326-17]	[AFSC/WPAFB ]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JAN 1963. Other requests shall be referred to Air Force Systems Command, Wright Patterson AFB, OH.	Quarterly summary progress rept., Oct- Dec 1962
AD0347891	VIBRATION AND FLUTTER ANALYSIS REPORT - GLIDER	1/17/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Sherman, L. L.,Golden, C. T.,Hager, T. R.]	944	[D2-8123 1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 JAN 1964. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Not Available
AD0347278	X-20 (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM	1/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR5]	Not Available	Not Available	Quarterly progress rept., 1 Oct- 31 Dec 62.
AD0328254	STATIC STABILITY, PRESSURE DISTRIBUTION, AND HEAT TRANSFER TESTS ON THE MCDONNELL ASSET MODEL AT MACH NUMBER 10	3/1/1962	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[MYERS, JAMES R.,ROBERTS, BLAINE W.,DUNKIN, ORMOND L.]	48	[AEDC-TDR-62- 44]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to Arnold Engoneering Development Center, AFSC, Arnold AFB, TN.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432636	WINDOW DEVELOPMENT - DYNA SOAR	12/16/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Covey, James H.]	207	[D2-80088]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0431904	DYNA SOAR STEP I GROUND INSTRUMENTATION SYSTEMS SPECIFICATION,	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Akre,R. C.]	37	[MB554]	Not Available	Not Available	Not Available
AD0348193	STATIC STAGE I/STAGE II SEPARATION TEST 3.96% INTERSTAGE MODEL	5/9/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Thomas,C. G.]	98	[ER11367]	Not Available	Not Available	Not Available
AD0367575	EARTH REENTRY AND ORBITAL SIMULATION ON UDOFT COMPUTER.	10/1/1965	U	[C - 02]	SYLVANIA ELECTRIC PRODUCTS INC NEEDHAM MASS	[Prutsalis ,John]	192	[AMRL-TR-65- 124]	[TR-65-124]	Not Available	Final rept. Mar 61-Feb 63,
AD0347640	4.17% SCALE DYNA-SOAR HEAT TRANSFER WIND TUNNEL TEST RESULTS. VOLUME II, BASIC PLOTTED DATA	11/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Buckley,Frank T. ,Jr.]	273	[ER11922]	Not Available	Not Available	Not Available
AD0433117	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM OPERATION AND MAINTENANCE INSTRUCTIONS.	3/15/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179M1B vol. 2]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB189557	On the Human Requirements of the Manned Interplanetary Vehicle	1/1/1960	U	[C - 02]	VIRGINIA POLYTECHNIC INST BLACKSBURG	[Kurzhals, Peter R.]	38	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1960. Other requests shall be referred to Department of Defense, attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD1087091	High-Speed Air and Responsive Space Vehicles Technologies (HARSVT) Task Order 0008: Technology for Responsive Reusable Launch Vehicle (RLV) Integration for Future Capabilities (TERRIFC)	4/1/2018	U	[D - 16,X - 57]	University of Dayton Research Institute Dayton United States	[Beglin,W.,Har dy,G.,Kothari, A.,Chaput,A.,A ndrews,J.,Griff in,K.,Bradford, J.,Shulman,J.,P hillips,T.,Wilhi te Wilhite,A.,Car penter,J.,Lane, J.,Sokol,D.,Wei nstock,V.,Beiti ng,E.,Paul,D.,G riffin,K.,Bulk,T. ,Lindas,K.,Ger ardi,K.,Oesterl e,A.,Wierzban owski,J.]	581	[AFRL-RQ-WP- TR-2018-0100]	[AFRL-RQ-WP- TR-2018- 0100]	Department of Defense and U.S. DoD contractors only;Critical Technology;,01 Apr 2018.Other request shall be referred to Air Force Research Laboratory,Wright-Patterson AFB,OH,45433-7542,Air Force Research Laboratory.This document contains export- controlled technical data.	Technical Report,20 Apr 2012,20 Apr 2018

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348300	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	7/20/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR63 408 2 2 6]	Not Available	Not Available	Quarterly summary progress rept. no. 6, 1 Apr30 June 63.
AD0431689	X-20A DYNA-SOAR SYSTEM 620A MATERIEL SUPPORT PLAN.	7/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	Not Available	1	Not Available	Not Available	Not Available	Not Available
AD0344437	AIR VEHICLE PITCH PLANE EXTERNAL LOADS (CYCLE 8)	9/1/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Lewin, L.,Stelma, J. L.,Wetzel, B. W.,Miller, T. W.]	164	[D2-8120-1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1963. Other requests shall be referred to Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Interim rept. for Dec 1962- May 1963
ADB186788	Design Considerations for Submarine Hydraulic Systems	1/1/1961	U	[C - 02,23]	MARE ISLAND NAVAL SHIPYARD VALLEJO CA	Not Available	513	Not Available	[BUSHIPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Naval Ship Engineering Center, Washington, DC. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOI - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0327060	ADVANCED SOLID PROPELLANT RESEARCH AND DEVELOPMENT PROGRAM	12/4/1961	U	[C - 02]	THIOKOL CHEMICAL CORP ELKTON MD	Not Available	132	[E173-61]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1961. Other requests shall be referred to Air Force Solid Systems Motor Component Branch, Edwards AFB, CA.	Not Available
AD0433264	TESTING OF PROTOTYPE DYNA- SOAR COOLED ACTUATOR,	1/7/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Johnson,H.]	1	[T22630]	Not Available	Not Available	Not Available
AD0350225	A BRIEF REVIEW OF BOUNDARY LAYER TRANSITION	1/1/1961	U	[C - 02,23]	GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE DIV	[Shaw, T. E.]	19	[AET-M-197]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Air Force Ballistic Systems Div., Norton AFB, CA., Availability: Document partially illegible.	Not Available
AD0333023	BSWT 129 SUPERSONIC FORCE, STABILITY AND CONTROL TEST ON A .0666 SCALE MODEL OF THE 844- 2050, AD-600I-2 DYNA-SOAR GLIDER (SPO-104)	12/1/1962	U	[C - 02]	BOEING CO SEATTLE WA	[BEECH, TOM R.]	812	[D2-80652]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0352405	INTERIM DYNA SOAR STEP I BOOSTER PERFORMANCE SPECIFICATION	1/3/1961	U	[E - 04]	BOEING CO SEATTLE WA	[Baldwin, Hugh L.]	36	[DN-D2-5338- 1]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 03 JAN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. l.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0430849	X-20 DYNA-SOAR PRIMARY .UIDANCE SUBSYSTEM. INERTIAL GUIDANCE SUBSYSTEM. FLIGHT TEST OPERATION PLAN,	11/13/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	[Stephenson, S. K.]	1	[1179SR12 rev. A]	Not Available	Not Available	Not Available
AD0256063	SAFETY-AND EMERGENCY EQUIPMENT FOR AIRCRAFT CREWS. BIBLIOGRAPHY	2/1/1961	U	[C - 02,23]	TECHNISCH DOCUMENTATIE EN INFORMATIE CENTRUM VOOR DE KRIJGSMACHT THE HAGUE (NETHERLANDS)	[Lakeman, G. M.]	189	[24600-A]	[TDCK]	Distribution authorized to U.S. Gov't. agencies and their contractors; Foreign Government Information; FEB 1961. Other requests shall be referred to Netherlands Embassy, 4200 Linnean Ave., NW, Washington, DC 20008. Document partially illegible.	Not Available
AD0471602	LOW THRUST TREPANNING RENE' 41	11/8/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	23	[MDR-2- 12234,IDEP- 347.70.00.00- C6-06]	[347.70.00.00- C6-06,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 NOV 1962. Other requests shall be referred to Interagency Data Exchange Program, DoD, Washington, DC 20301. Document partially illegible.	Manufacturin g development rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	TR-66-12-VOL	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0515889	Design and Experimental Investigation of Reusable Launch Vehicle Configurations. Volume 2. Concept Analysis	5/1/1971	U	[C - 02,23]	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Alexander, Grover L.,Lloyd, J. T.,Carlson, H. E.,Eberwine, D. A.,Svendsen, H. O.]	463	[LMSC- A981642-VOL- 2,AFFDL-TR-71- 13-VOL-2]	[TR-71-13-VOL 2,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1971. Other requests shall be referred to Air Force Flight Dynamics Lab., AFSC, Wright-Patterson AFB, OH 45433. Document partially illegible.	Final rept. Jul 1967-Dec 1970
AD0407433	PRETEST PLANNING REPORT FOR AN 11.6%-SCALE MODEL TITAN II STAGE I BASE HEATING TEST AT THE ARNOLD CENTER ROCKET TEST FACILITY	6/1/1963	U	[C - 02]	MARTIN CO DENVER CO	[Marcantonio, J. A.]	59	[CR-63-128]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1963. Other requests shall be referred to Ballistic Systems Division, Norton AFB, CA.	Not Available
AD0360803	Spacecraft and Rocket Propulsion Monthly Progress Report (Aerospace Corporation)	1/1/1963	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	Not Available	54	[CSR- 169(9990)MPR- 7-VOL-1]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to Space and Missile Systems Center, Los Angeles AFB, CA 90009-2960.	Monthly progress rept. no. 1, 1- 31 Jan 1963
AD0329562	FORCE TESTS ON THE BOEING AD- 599I-1 DYNA-SOAR MODEL AT MACH 5, 8, AND 10	5/1/1962	U	[C - 02]	ARO INC ARNOLD AFS TN	[KAYSER, L. D.,MERZ, G. H.]	38	[AEDC-TDR-62- 105]	[TDR-62- 105,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1962. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnolod AFB, TN 37389-2305.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
ADB118620	Air University Abstracts of Research Reports, 1987. Volume 31	11/1/1987	U	[B - 03]	AIR UNIV LIBRARY MAXWELL AFB AL	[Goodman, A. S.]	233	Not Available	[AUL]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; 27 FEB 1988. Other requests shall be referred to Air University, Attn: LDE, Maxwell AFB, AL 36112- 5564.	Annual rept.
AD0411789	INVESTIGATION OF THE APPLICATION OF DYNAMIC TESTING TECHNIQUES FOR ADVANCED CREW ESCAPE SYSTEM TESTING	4/1/1963	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[Oling, L.,Dhonau, O. E.]	185	[ASD-TDR-63- 351]	[TDR-63- 351,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1963. Other requests shall be referred to Aeronautical Systems Division, AFSC, Wright-Patterson AFB, OH 45433.	Final rept.
AD0382313	A SIMULATION STUDY OF AN ADVANCED DIGITAL ADAPTIVE FLIGHT CONTROL SYSTEM.	1/1/1967	U	[C - 02]	MCDONNELL AIRCRAFT CORP ST LOUIS MO	[Berger,Roger L.,Lazzareschi, Clyde R.]	136	[AFFDL-TR-66- 144]	[TR-66-144]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Attn: FDCL. Wright- Patterson AFB, Ohio 45433.	Final rept. Jul 65-Apr 66,
AD0349071	EVALUATION OF X-20 VERIFICATION NO. 1 NOSE CAP AFTER ENVIRONMENTAL TEST - RELEASE II	3/6/1964	U	[C - 02,23]	BOEING AEROSPACE CO SEATTLE WA	[Kelly, K. P.]	27	[3-52130- 0196]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 06 MAR 1964. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0437771	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM. VOLUME 3. SURFACE EQUIPMENT.	3/31/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 34 3 1]	Not Available	Not Available	Development engineering rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353208	BOEING PROPOSED STATEMENT OF WORK - DYNA SOAR (STEP I) PROGRAM FOR PERIOD OF SEPT. 17, 1961 THROUGH JUNE 30, 1962	4/7/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Chandler, R. E.]	428	[D2-7800-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 APR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0452721	TITAN PROGRAM PLAN-FACILITIES MASTER PLAN	12/1/1961	U	[C - 02]	MARTIN CO DENVER CO	Not Available	438	[WDD-M-E-11- REV-5]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1961. Other requests shall be referred to Air Force Ballistic Systems Division, Los Angeles AFB, CA.	Not Available
AD0441733	MANUFACTURING DOCUMENT FOR THE CHEMICAL MILLING OF ALUMINUM ALLOYS IN SHOP 2- 3340	12/7/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Phelan, R. E.]	66	[D2-80744]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0353212	DYNA-SOAR STEP I	3/27/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	129	[D2-7326 7]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 MAR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Program progress rept. for Feb 1961

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	-[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter,		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
						J. I.]					
AD0444291	GROUND CHECKOUT SYSTEM DESCRIPTION, DYNA-SOAR GLIDER	3/27/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	77	[D2-8158]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0442214	SPECIFICATION FOR DYNA SOAR AIRBORNE DATA TAPE RECORDER SET AND GROUND RECORDER/REPRODUCER SET,	3/19/1962	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FLA	[Maresca,T.,H ardman,W.]	1	[7660 5]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0311301	SYSTEM DESIGN. DYNA-SOAR PROJECT WS464L	3/1/1959	U	[C - 02]	USAF/A4R WASHINGTON DC	Not Available	515	[ER-10364]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1959. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0444215	SUBSYSTEM DESCRIPTION FOR GLIDER LAUNCH CONTROL EQUIPMENT	10/26/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	53	[D2-8199]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 OCT 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB249425	Proceedings of the Second Weight Prediction Workshop for Advanced Aerospace Design Projects.	11/4/1966	U	[C - 12]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH DEPUTY FOR DEVELOPMENT PLANNING	[Kasten, Herman G.]	459	Not Available	[ASD]	Distribution: DTIC users only.	Not Available
AD0348227	FINAL BOOSTER SYSTEMS CONFIGURATION TITAN II. DYNA SOAR STEP-I	5/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Baxter,J. F.]	183	[ER11364]	Not Available	Not Available	Not Available
AD0370736	X-20 (DYNA-SOAR) BACKUP NAVIGATION STUDY	8/23/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Johnson, Wesley E.]	98	[D2-80702]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 AUG 1962. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0348231	DYNA-SOAR STEP I. ACOUSTIC AND VIBRATION ENVIRONMENT	10/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Brown, J. W.]	101	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; specific authority; 17 Feb 2000. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0341277	INVESTIGATION OF WIND- INDUCED OSCILLATIONS AND STEADY GROUND WIND FORCES ON A 7.5% DYNAMICALLY SCALED MODEL OF THE 624A VEHICLE	8/1/1963	U	[C - 02]	MARTIN CO DENVER CO	[Cincotta, J. J.,Lambert, W. H.]	313	[ER13022,SSD- CR-63-118]	[CR-63- 118,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 12 Jul 2000. Other requests shall be referred to Hq. Space Systems Div., Air Force Systems Command, Los Angles CA.	Not Available
AD0347889	Design Requirements for Coated Refractory Alloys. Volume 2	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Dreisbach, W. G.]	26	[D2-81113-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0358805	DYNA SOAR BOOSTER GUIDANCE SELECTION STUDY	2/17/1961	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CALIF	[Whitcombe,D avid,Volgenau, Ernst]	1	[TOR- 594(1108)SEA- 1]	Not Available	Not Available	Not Available
AD0347893	EMITTANCE IMPROVEMENT COATING DEVELOPMENT FOR REFRACTORY ALLOYS	12/26/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Kerlee, C. E.]	135	[D2-81110-VOL 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0432638	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT STATUS REPORT.	6/15/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	77	[DSR 8]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431906	DYNA SOAR STEP I BOOSTER SYSTEM DEVELOPMENT SPECIFICATION.	7/10/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	24	[MB550]	Not Available	Not Available	Not Available
ADB270378	Coatings for Refractory Metals in Aerospace Environments	9/1/1964	U	[B - 03]	LOCKHEED MISSILES AND SPACE CO INC PALOALTO CA MATERIALS SCIENCES LAB	Not Available	51	[2-04-64-3]	[ASD]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Sep 1964. Other requests shall be referred to ASD/AFSC, WPAFB, OH 45433.	Progress rept. no. 5, 1 Jun-31 Aug 1964
AD0348195	BOOSTER PLAN 'B' ACCELERATED PROGRAM	11/15/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	45	[ER-11382]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 NOV 1060. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20330.	Product improvement rept. no. 4
AD0395516	Lifting Reentry Test Vehicle Preliminary Designs for FDL-7MC and FDL-5MA Configurations. Volume VII. Unmanned Hypersonic Test Vehicle Design and Analyses (FDL-5MA)	1/1/1969	U	[C - 02]	MCDONNELL DOUGLAS CORP ST LOUIS MO	[Kinroth, G. D.,Parks, D. L.,Steinmeyer, T. J.,Warneke, C. H.]	161	[AFFDL-TR-68- 97-VOL-7]	[TR-68-97-VOL- 7,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1969. Other requests shall be referred to Director, Air Force Flight Dynamics Lab., Attn: FDMS. Wright- Patterson AFB, OH 45433.	Final rept. Jul 1966-Mar 1968

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0346910	PROCEEDINGS OF 1962 X-20A (DYNA-SOAR) SYMPOSIUM. VOLUME I. GENERAL, TESTING AND GROUND SUPPORT, AND SUBSYSTEMS	3/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	305	[ASD-TDR-63- 148-VOL-1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 10 Apr 2000. Other requests shall be referred to Aeronautical systems Div., AFSC, Wright- Patterson AFB, OH 45433.	Not Available
AD0432642	PRELIMINARY DEVELOPMENT TEST BASIC HEAT TRANSFER DATA CRYOGENIC HEATER EQUIPMENT COMPARTMENT COOLER UNIT 178390 BOEING DYNA SOAR PART 10-20917-3,	1/17/1962	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Durham,R. E.,Busch,E. F.]	11	[DS76R]	Not Available	Not Available	Not Available
AD0352515	DYNA SOAR STEP-I.	1/13/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams,Sear s]	78	[ER11350]	Not Available	Not Available	Quarterly progress rept. no. 1, 31 May-31 Dec 60,
ADB254270	Notices of Changes in: Classification, Distribution, and Availability Report Date: January - March 2000	3/1/2000	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Kramer, Anna,Medley, Rosa L.,Rogers, Zena D.]	404	[DTIC/TR- 00/01]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Mar 2000. Other requests shall be referred to DTIC-OCQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. 1 Jan-31 Mar 2000

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0459853	ANALYTICAL ASPECTS OF RELIABILITY IN RE-ENTRY SYSTEMS DEVELOPMENT	9/1/1962	U	[C - 02,23]	AVCO CORP WILMINGTON MA RESEARCH AND ADVANCED DEVELOPMENT DIV	[Earles, D. R.]	44	[IDEP- 347.40.00.00.B 8-06]	[AFRL-VS-HA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Adminstrative and Operational Use; Sep 1962. Other requests shall be referred to the Air Force Research Lab, Attn: Space Vehicles Directorate, Hanscom AFB, MA 01731., Availability: Document partially illegible.	Not Available
AD0433266	EMERGENCY RE-ENTRY SUBSYSTEM TWO-GYRO REFERENCE	8/8/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	47	[DWG-10- 81159]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 AUG 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0812452	Gemini Program Launch Systems. Gemini/Titan Launch Vehicle. Gemini/Agena Target Vehicle. ATLAS/SLV-3	1/1/1967	U	[C - 02,X - 57]	AEROSPACE CORP EL SEGUNDO CA EL SEGUNDO TECHNICAL OPERATIONS	[Anderson, S. F.]	547	[TOR- 1001(2126-80)- 3]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; JAN 1967. Other requests shall be referred to Space Systems Div., Attn: SSVL. Air Force Unit Post Office, Los Angeles, CA 90045. This document contains export-controlled technical data.	Final rept. Jan 1962-Dec 1966
ADB241782	Notices of Changes in Classification, Distribution and Availability for Apr 1998 - Dec 1998	12/31/1999	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William B.,Leach, Yvette A.,Rogers, Zena D.]	692	[DTIC/TR-99/1]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Jan 99. Other requests shall be referred to DTIC- OCQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Technical rept. 1 Apr- 31 Dec 98

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB123066	Conceptual Design and Analysis of Hypervelocity Aerospace Vehicles. Volume 1. Mass Properties	2/1/1988	U	[C - 02,X - 57]	BOEING AEROSPACE CO SEATTLE WA FLIGHT TECHNOLOGY ORGANIZATION	[Forbis, John C.,Kotker, David J.]	236	[HAVCD-F- 1,AFWAL-TR- 87-3056-VOL- 1]	[TR-87-3056- VOL- 1,AFWAL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; Jun 1987. Other requests shall be referred to Air Force Wright Aeronautical Labs, Attn: FIAD, Wright-Patterson AFB, OH 45433-6553., This document contains export-controlled technical data.	Final rept. Jun 1986-Mar 1987
AD0333025	Boeing Transonic Wind Tunnel Test No. 738. A High Speed Heat Shield Airload and Release Trajectory, and Pilot Hatch Pressure Distribution Test on AD-626M-1, A 0.0666 Scale Model of Dyna Soar.	12/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[SCHULT,LORE N A.,LEVERENG, FREDERICK P.I. JR.]	1	[D2 80682]	Not Available	Not Available	Not Available
ADB189809	Manned Scientific Orbital Laboratory	1/1/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Stoiko, M.,Kayten, G. G.,Dorsey, J. W.]	28	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1960. Other requests shall be referred to Department of Defense, Washington DC.	Not Available
AD0260278	ASTRONAUTICS INFORMATION. OPEN LITERATURE SURVEY, VOLUME III, NUMBER 6 (ENTRIES 31,14631,373)	6/1/1961	U	[C - 02]	JET PROPULSION LAB PASADENA CALIF	[CARRINGER,E .M.,HOPPE,M. G.,NICHOLS,B. H.]	1	Not Available	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0471604	TAPER CHEMICAL-MILLING OF RENE' 41 TUBES	3/26/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Howells, Earl]	26	[MDR-2- 14969,IDEP- 347.70.00.00- C6-09]	[347.70.00.00- C6-09,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 MAR 1962. Other requests shall be referred to Interagency Data Exchange Program, DoD, Washington, DC 20301. Document partially illegible.	Manufacturin g development rept.
AD0347677	SHF COMMUNICATIONS SITE SURVEY AT EDWARDS AIR FORCE BASE. DYNA SOAR (STEP 1) COMMUNICATIONS AND TRACKING SUBSYSTEM	11/30/1961	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR61 408 12 1 1]	Not Available	Not Available	Final rept., 2 Oct-3 Nov 61.
AD0431766	TEST REPORT. DEI MODEL TMR-5A TELEMETRY RECEIVER (PRELIMINARY). X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM. ADDENDUM NO. 1.	11/14/1962	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	26	[SR-4,CR-62- 408-7-4-1]	Not Available	Not Available	Not Available
ADB347954	Notice of Changes in Classification, Distribution, and Avallability for Jan-Feb-Mar 2009	3/1/2009	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence D.]	584	[DTIC-OQ-TR- 2009/05]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 MAR 2009. Other requests shall be referred to Defense Technical Information Center, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. for 1 Jan-31 Mar 2009

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0437200	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM VOLUME 4. AEROSPACE GROUND EQUIPMENT (AGE).	3/31/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR 64 408 34 4 1]	Not Available	Not Available	Development engineering rept.
ADB270775	The Synthesis of Boron Carbide Filaments	4/10/1964	U	[B - 03]	GENERAL ELECTRIC CO PHILADELPHIA PA	[Gatti, A.,Cree, R.,Feingold, E.,Mehan, R.]	38	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Apr 1964. Other requests shall be referred to NASA, Washington, DC 20546	Quarterly rept. no3.
AD0348158	WEIGHT ANALYSIS REPORT. DYNA- SOAR STEP I,	7/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Van Arnam,W. D.]	1	[ER11377]	Not Available	Not Available	Not Available
AD0347999	X-20 PROGRAM PAPERS AEROSPACE SYSTEMS MANAGEMENT SESSION, PRESENTED AT AIAA SUMMER MEETING, LOS ANGELES, 19 JUNE 1963	9/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	[Moore,Walte r,Jr.,Rotelli ,R. L.,Christensen ,T. W.,Rapp,W. E.]	1	Not Available	Not Available	Not Available	Not Available
AD0441914	TECHNICAL DEVELOPMENT SPECIFICATION FOR COMPARISON, GAIN COMPUTER.	12/28/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	8	[TDS 2546 03 44]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432752	NOSE CAP DEVELOPMENT TESTS	9/13/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Landry, B. E.]	101	[D2-80083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 SEP 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0482448	The X-20 (Dyna-Soar) Program	12/1/1963	U	[C - 02,23]	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Evans, George R.]	29	[LMSC-LS-16]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1963. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Literature search 1958- Sep 1963
AD0347318	EVALUATION OF X-20 VERIFICATION NO. 1 NOSE CAP AFTER ENVIRONMENTAL TEST. RELEASE I	1/9/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Lowrance, David T.]	14	[3-52130- 0196]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 JAN 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0350445	PROGRAM 706 PHASE 0 OF STUDY. VOLUME 2. UNIVERSAL MODULE - SYSTEMS ANALYSIS	11/1/1963	U	[C - 02]	MARTIN CO DENVER CO	Not Available	666	[706-CR-63-8- VOL 2,SSD-TDR- 63-333-VOL-2]	[TDR-63-333- VOL-2,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1963. Other requests shall be referred to Air Force Systems Command, Space Systems Division, Los Angeles, CA.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441699	HIGH TEMPERATURE INSULATION DEVELOPMENT PART I (THERMAL CONDUCTIVITY MEASUREMENT APPARATUS).	11/28/1961	U	[C - 02]	BOEING CO SEATTLE WASH	[Van Slyke,William J.,Parkowski, W. S.]	23	[D2 80094 6]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0339855	Tempo Publications Index, 5th Edition	11/1/1962	U	[C - 02]	GENERAL ELECTRIC CO SANTA BARBARA CA TECHNICAL MILITARY PLANNING OPERATION	Not Available	22	[SP- 100,(SUPPL.)]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1962. Other requests shall be referred to DoD, Public Affairs Office, Washington, DC 20301.	Supplement rept.
ADB346469	Novel Analysis Tools for Rapid Evaluation of Advanced Propulsion Systems - Enhancement	11/1/2008	U	[B - 03]	SPACE SYSTEMS LLC ATHERTON CA	[Papadopoulo s, P.]	399	[AFRL-RZ-ED- TR-2008-0068]	[TR-2008- 0068,AFRL-RZ- ED]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; NOV 2008. Other requests shall be referred to Air Force Research Laboratory, ATTN: RZS, 5 Pollux Drive, Edwards AFB, CA 93524-7048.	Final rept. 2 Aug 2004-9 Aug 2008
AD0347895	PERFORMANCE OF OXIDATION RESISTANT COATINGS FOR COLUMBIUM ALLOYS	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Dreisbach,W. Glen]	1	[D2 81111 2]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0328692	Rocket-engine Systems for Evasive Satellites and Satellite Interceptors, Volume 3. Propulsion-System Design	2/1/1962	U	[C - 02]	AEROJET- GENERAL CORP AZUSA CA	[MOORE, B. P.]	362	[AGC-2186- VOL-3,SSD-TDR- 62-16-3]	[TDR-62-16- 3,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1962. Other requests shall be referred to Air Force Systems Command, Space Systems Div., Los Angeles, CA 90009-2960.	Final rept. 16 Jun-15 Dec 1961
AD0406312	RESEARCH AND DEVELOPMENT, LIST OF SMALL BUSINESS CONCERNS INTERESTED IN PERFORMING RESEARCH AND DEVELOPMENT	5/1/1963	U	[C - 02,23]	SMALL BUSINESS ADMINISTRATIO N WASHINGTON DC	Not Available	657	Not Available	[SBA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; May 1963. Other requests shall be referred to Small Business Administration, Washington, DC., Availability: Document partially illegible.	Not Available
AD0431908	PRELIMINARY DYNA-SOAR PROPULSION SUB-SYSTEM TEST PROGRAM (DEVELOPMENT)	3/1/1964	U	[C - 02]	MARTIN CO BALTIMORE MD	[Greenawald, W.]	17	[ER-11374]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1964. Other requests shall be referred to Air Force Space Systems Division, Attn: SSVS Los Angeles CA.	Not Available
AD0346912	PROCEEDINGS OF 1962 X-20A (DYNA-SOAR) SYMPOSIUM. VOLUME III. STRUCTURES AND MATERIALS	3/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	400	[ASD-TDR63- 148-VOL-3]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Other requests shall be referred to Aeronautical Systems Div., Wright- Patterson AFB, OH 45433.	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. l.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	---	-----------	---	----------	---	--	-----	---	---------------------------	--	-----------------------------------
AD0441949	RELIABILITY PROGRAM FOR THE MH-132 DYNA SOAR FLIGHT CONTROL SYSTEM ELECTRONICS.	10/2/1961	U	[C - 02]	HONEYWELL INC MINNEAPOLIS MINN	Not Available	37	[2546TR6 1]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0339389	PRESSURE DISTRIBUTION AND HEAT-TRANSFER TESTS OF THE DYNA SOAR X-20 CONFIGURATION WITH MODIFIED CONTROL SURFACES AT MACH 10	8/1/1963	U	[C - 02]	ARO INC ARNOLD AFS TN	[Rhudy, R. W.,Burdette, J. E.]	43	[ARO- VT0142,AEDC- TDR-63-151]	[TDR-63- 151,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN 37389.	Technical documentary rept.
AD0348304	X-20 CTS DESCRIPTION X-20 (DYNA- SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	5/31/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR-63-408-7-6 1-1,SR-6]	Not Available	Not Available	Special report
AD0352342	CONFIGURATION CONTROL AND SYSTEM DEFINITION DOCUMENT, X- 20 CAPABILITY STUDY	6/28/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	225	[DN,D2-80907]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 JUN 1963. Other requests shall be referred to Air Force Aeronautical Systems Division, Wright- Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0339572	DATA REPORT AMES RESEARCH CENTER 9'x7' AND 11'x11' UNITARY PLAN WIND TUNNELS, TEST NOS. 114 AND 90. SUPERSONIC AND TRANSONIC AIRLOAD DISTRIBUTION TESTS OF AD-603M- 1, A .075 SCALE MODEL OF THE 844-2050 DYNA-SOAR GLIDER VEHICLE	7/11/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	778	[D2-80793-VOL 1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0355254	STUDY OF AN ADVANCED ENERGY MANAGEMENT SYSTEM FOR RE- ENTRY VEHICLES	9/1/1964	U	[C - 02]	BELL AEROSYSTEMS CO BUFFALO NY	[Austin, Robert W.,Cockayne, William G.]	311	[AFFDL-TDR-64- 79]	[TDR-64- 79,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1964. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Research and Technology Division, Wright-Patterson AFB, OH 45433.	Final rept.
AD0430786	FACILITY REQUIREMENTS AFFTC, EDWARDS AIR FORCE BASE, DYNA- SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM	5/15/1962	U	[C - 02,23]	RAYTHEON CO WALTHAM MA	Not Available	119	[CR-62-408- 11.1-2]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 MAY 1962. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0435130	HYDROGEN COOLING EQUIPMENTS BOEING X-20 (DYNASOAR) SPACE GLIDER	2/5/1963	U	[C - 02,23]	GARRETT CORP LOS ANGELES CA AIRESEARCH MFG DIV	[Busch, E. F.]	82	[DS-139-R]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 05 FEB 1963. Other requests shall be referred to Air Force Systems Command, Wright-Patterson AFB, OH 45433. Document partially illegible.	Monthly progress rept. no. 15 for Dec 1962
ADA247846	Soviet Reactions to the National Aerospace Plane (NASP)	11/1/1990	U	[A - 01,20]	RAND CORP SANTA MONICA CA	[Gottemoeller, Rose,Brooks, Nathan]	24	[RAND-N-3127- AF]	[AFRDC]	Approved for public release; distribution is unlimited. Available only to DTIC users. U.S. Government or Federal Purpose Rights License.	Interim rept.
AD0431876	DYNA SOAR. COMMUNICATIONS AND TRACKING SUBSYSTEM.	11/1/1962	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	17	Not Available	Not Available	Not Available	Failure rept. tabulation, Apr-Nov 62.
ADB021686	Bibliography on Training	11/1/1971	U	[C - 02,23]	MCDONNELL AIRCRAFT CO ST LOUIS MO	[Jung, D.]	334	[MAC-LB- 522,GIDEP- E059- 0583,GIDEP- 347.10.00.00- F4-103]	[E059- 0583,347.10.0 0.00-F4- 103,NFAC- GOC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 03 NOV 1987. Other requests shall be referred to Naval Fleet Analysis Center, GIDEP Operations Center, Corona, CA 91720. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST				CALIFORNIA CO	T.,Ehrlich, C.		3,AFFDL-TR-66-	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson	
	VEHICLES. VOLUME 3 - TECHNICAL				BURBANK	F.,Guard, F.		12-VOL-3]		AFB, OH 45433.	
	DISCUSSIONS					L.,Linneman,					
						Ε.					
						R.,Perlmutter,					
						J. I.]					
						_					
								-			
AD0430790	GROUND INSTRUMENTATION	11/15/1963	U	[C - 02]	RAYTHEON CO	Not Available	1	[CR63 408 15 1	Not Available	Not Available	Not Available
	PLAN FOR DEVELOPMENT TEST				WALTHAM			5 1]			
	PROGRAM. X-20 (DYNA-SOAR)				MASS						
	COMMUNICATIONS AND										
	TRACKING SUBSYSTEM.										
AD0273699	THE ENTRY OF MANNED	10/1/1961	U	[C - 02]	TORONTO UNIV	[ETKIN, B.]	39	[UTIAS-	[1963,AFOSR]	Distribution authorized to U.S. Gov't. agencies	Conference
	MANOEUVREABLE SPACECRAFT				DOWNSVIEW			REVIEW-		and their contractors;	paper
	INTO PLANETARY ATMOSPHERES				(ONTARIO) INST			20,AFOSR-		Administrative/Operational Use; OCT 1961.	
					FOR AEROSPACE			1963]		Other requests shall be referred to Air Force	
					STUDIES					Offis of Scientific Research, Arlington, VA 22203.	

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD1027998	Assessment of National Hypersonic Wind Tunnel Capabilities	10/1/2013	U	[C - 02,X - 57]	AIR FORCE MATERIEL COMMAND ARNOLD AFB TN ARNOLD AFB United States	[Harvin,Steph en F.,Micol,John R.,Raiche,Geor ge A.,Giriunas,Juli us A.,Bennett,Bar ry D.,Meredith, W. S.,Guyton,Rob ert W.,Jalbert,Pau I A.,Dunn,Steve n C.]	209	[AEDC-TR-13-F- 7]	Not Available	U.S. Government agencies and their contractors;Administrative or Operational Use;,01 Feb 2011.Other request shall be referred to Arnold Engineering Development Complex, Arnold AFB,TN,37389,Arnold Engineering Development Complex.This document contains export-controlled technical data.	Technical Report,03 May 2010,28 Feb 2013
AD0335637	A STUDY OF SOME AERODYNAMIC CHARACTERISTICS OF THE DYNA- SOAR GLIDER AT M = 12.89	2/1/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[MAUERSBER G, J. D.,THOMAS, RICHARD E.]	432	[D2-80877]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20008. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0814809	HYPERSONIC AIRCRAFT AUXILIARY POWER SUBSYSTEM ANALYSIS. VOLUME 2. REFINEMENT OF SELECTED SUBSYSTEM	5/1/1967	U	[B - 03,X - 57]	DOUGLAS AIRCRAFT CO LONG BEACH CA AIRCRAFT DIV	[Thayer, William W.,Verrette, Joseph A.,Taylor, Carl S.]	65	[AFAPL-TR-66- 125-VOL-2]	[TR-66-125- VOL-2,AFAPL]	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 12 APR 1972. Other requests shall be referred to Air Force Aero Propulsion Laboratory, Attn: PO, Wright- Patterson AFB, OH 45433. This document contains export-controlled technical data.	Final rept. 1 Nov 1966-31 Mar 1967
AD0347540	MODEL SPECIFICATION FOR DYNA SOAR STEP I BOOSTER	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Kiladis,N. J.]	103	[MB551]	Not Available	Not Available	Not Available
AD0432540	DYNAMIC ANALYSIS DATA BOEING DYNA SOAR COOLING EQUIPMENTS,	12/30/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Chessmore,G. ]	1	[DS 74RRev. 3]	Not Available	Not Available	Not Available
AD0319780	Summary Of ARPA Space Technology Program Review, September 9, 14, And 15, 1959. Volume 1	12/1/1959	U	[X - 07,X - 57]	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Not Available	220	[R-59-5- V1,ARPA-R-59- 5]	[R-59-5,ARPA]	Distribution authorized to U.S. Gov't. agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with DoDD 5230.25. Controlling DoD office is DARPA, Washington, DC., This document contains export-controlled technical data.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB208287	Plastics in Electronics. Technical Papers.	4/1/1963	U	[C - 12,23]	SOCIETY OF PLASTICS ENGINEERS BROOKFIELD CENTER CT	Not Available	114	Not Available	[XD]	Distribution: DTIC users only., Availability: Document partially illegible.	Not Available
AD0348200	STUDY REPORT RECOVERY OF DYNA SOAR VEHICLES	3/1/1961	U	[C - 02]	SPERRY PHOENIX CO ARIZ	Not Available	1	[LJ1270 0081]	Not Available	Not Available	Not Available
AD0408782	A STUDY OF TIME-BASED METHODS OF ANALYSIS IN COCKPIT DESIGN	5/1/1963	U	[C - 02]	RITCHIE AND ASSOCIATES INC DAYTON OH	[Hanes, Lewis F.,Ritchie, Malcolm L.,Kearns, III, John H.]	301	[ASD-TDR-63- 289]	[TDR-63- 289,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1963. Other requests shall be referred to Air Force Aeronautical Systems Division, Flight Control Laboratory, Wright-Patterson AFB, OH 45433.	Final rept.
AD0871459	Preliminary Investigation of Handling Qualities Requirements for Lifting Re-Entry Vehicles	4/1/1970	U	[C - 02,X - 57]	CORNELL AERONAUTICAL LAB INC BUFFALO NY FLIGHT RESEARCH DEPT	[Di Franco, Dante A.,Mitchell, John F.]	188	[CAL-BM-2238- F-7,AFFDL-TR- 69-32]	[TR-69- 32,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; APR 1970. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Attn: FDCC, Wright-Patterson AFB, OH 45433. This document contains export-controlled technical data.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0491191	DYNA-SOAR MIL SPECIFICATION REVIEW REPORT	8/26/1960	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	171	[DN-D2-7176]	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 AUG 1960. Other requests shall be referred to Wright Air Development Division, Wright-Patterson AFB, OH 45433.	Not Available
AD0328480	MACH NUMBER 10 PRESSURE DISTRIBUTION AND HEAT TRANSFER TESTS ON A DYNA-SOAR CONFIGURATION WITH BOOSTER (U)	3/1/1962	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[RHUDY,R.W., BURT,R.H.]	1	[TDR62 52]	Not Available	Not Available	Not Available
AD0314146	DYNA-SOAR PERFORMANCE SIMULATION	12/1/1959	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CALIF	[ANDERTON,F RANK R. JR.]	1	[59 F 1017,AFFTC- TN59 44]	[TN59 44]	Not Available	Not Available
AD0432607	LEADING EDGES DEVELOPMENT - DYNA SOAR	6/22/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Bowers, D. A.]	189	[D2-80085]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0333174	Wind, Wind Shear, and Gust Design Criteria for Vertically-Rising Vehicles as Recommended on the Basis of Montgomery, Ala., Wind Data	8/1/1962	U	[F - 05,23]	AVIDYNE RESEARCH INC BURLINGTON MA	[Mazzola, Luciano L.,Hobbs, Norman P.,Criscione, Emanuel S.]	317	[WADD-TR-61- 99]	[TR-61- 99,WADD]	Distribution: Further dissemination only as directed by Wright Air Development Div., Wright-Patterson AFB, OH 45433, 19 Jan 99 or higher DoD authority., Availability: Document partially illegible.	Not Available
AD0348164	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	1/20/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR63 408 2 2 4]	Not Available	Not Available	Quarterly summary progress rept. no. 4, 1 Oct31 Dec 62.
AD1084504	The DoD High Performance Computing Modernization Program's Hypersonic Vehicle Simulation Institute: Objectives, Projects, and Progress	12/16/2019	U	[C - 02]	DEFENSE HIGH PERFORMANCE COMPUTING MODERNIZATIO N PROGRAM OFFICE LORTON VA LORTON United States	[Cummings,Ru ssell]	11	Not Available	Not Available	U.S. Government agencies and their contractors;Administrative or Operational Use;,20 Aug 2019.Other request shall be referred to DoD High Performance Computing Modernization Program HVSI,Lorton,VA,22079,DoD High Performance Computing Modernization Program HVSI.	Journal Article - Embargoed Full-Text
ADB270351	Air Force Materials Symposium/1965	5/1/1965	U	[B - 03]	AIR FORCE MATERIALS LAB WRIGHT- PATTERSON AFB OH	Not Available	889	[AFML-TR-65- 29]	[AFML]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; May 1965. Other requests shall be referred to AFML/RTD, AFSC, WPAFB, OH 45433.	Technical papers

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0452904	WIND INDUCED OSCILLATION RESPONSE OF CYLINDER AND FLAT PLATE LIFTING SURFACE	4/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Barsamian, V.,Young, J. P.]	67	[ER-11365]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 APR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB186007	The State of the Art in Dynamic Engines for Space Power Systems	1/1/1961	U	[C - 02]	THOMPSON RAMO WOOLDRIDGE INC CLEVELAND OH STAFF RESEARCH AND DEVELOPMENT	[Kovaclk, Victor P.]	43	[2166-61]	[SAF/PAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to National Aeronautics and Space Administration, Code AO, 300 "E" Street, SW, Washington, DC 20546- 0001.	Not Available
AD0353216	PRELIMINARY VIBRATION AND FLUTTER ANALYSIS REPORT - AIR VEHICLE	5/9/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Miller, T. W.]	92	[D2-8123-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 MAY 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB182757	Space Guide: A Basic Guide to NASA	1/1/1959	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON DC	[Callahan, Jr, Vincent F.]	184	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1959. Other requests shall be referred to National Aeronautics and Space Administration, Code AO, 300 "E" Street, SW, Washington, DC 20546- 0001.	Not Available
AD0411725	Evaluation Test on 2N910, 2N1973 and 2N1975 Transistors	6/29/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	[Acosta, L.]	71	[6565,IDEP- 742-10-30-00- G2-01]	[742-10-30-00- G2-01,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 JUN 1962. Other requests shall be referred to Interagency Data Exchange Program, Washington, DC.	Test rept.
AD0456910	PRETEST INFORMATION 3.3- PERCENT 624A AERODYNAMIC HEATING INVESTIGATION, NASA- LANGLEY UNITARY PLAN WIND TUNNEL,	2/1/1963	U	[C - 02]	MARTIN CO DENVER COLO	[Svendsen,H. O.]	44	[SSR CR63 19]	Not Available	Not Available	Not Available
AD0347933	BOOSTER-GLIDER INTERFACE TRADE STUDY. DYNA SOAR STEP-I	9/19/1960	U	[F - 05]	MARTIN CO BALTIMORE MD	[Schlechter, R.]	105	[ER-11343]	[USAF]	Distribution controlled. All requests to: Commander, Air Force Ballistic Missile Division, Air Research and Development Command, Inglewood, CA	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB302237	Innovative Concepts for Hypersonic System Performance Improvement	9/9/2004	U	[C - 02,26,X - 57]	PURDUE UNIV LAFAYETTE IN AEROSPACES SCIENCES LAB	[Schneider, Steven P.]	39	Not Available	[AFOSR]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative or Operational Use; Sep 2004. Other requests shall be referred to Air Force Office of Scientific Research, 4015 Wilcon Blvd., rm. 713, Arlington, VA 22203-1954., Availability: This document is not available from DTIC in microfiche., This document contains export-controlled technical data.	Interim rept. Jan 2003-Sep 2004
ADB009185	Transtage Interim Upper Stage System Study. Volume 1. Executive Summary	6/1/1975	U	[C - 02,23]	MARTIN MARIETTA AEROSPACE DENVER CO	[Teets, Peter B.]	59	[SAMSO-TR-75- 182-VOL-1]	[TR-75-182- VOL- 1,SAMSO]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; JUN 1975. Other requests shall be referred to Air Force Space and Missile Command, Space and Missile Systems Center, Attn: SMC/AXEM, 2420 Vela Way, Suite 1467, El Segundo, CA 90245- 4659. Document partially illegible.	Final rept. 1 Oct 1974-30 Jun 1975

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB357642	Versatile Affordable Advanced Turbine Engine (VAATE). Delivery Order 0002: Long Range Strike Exhaust System Design and Analysis (LESDA) II	12/1/2008	U	[B - 03,X - 57]	NORTHROP GRUMMAN CORP EL SEGUNDO CA INTEGRATED SYSTEMS	[Neiman, John,Pak, Joon,Hogan, Patrick,Pho, Luck,Vuong, So,Christense n, Nick,Doughert y, Dan,Weiss, Carl,Willard, Mike,Lovett, Jeff,McMahon , Shawn,Kuprati s, Dan]	111	[AFRL-RZ-WP- TR-2009-2085]	[TR-2009- 2085,AFRL-RZ- WP]	Distribution authorized to U.S. Gov't. agencies only; Critical Technology; Proprietary Information; DEC 2008. Other requests shall be referred to Air Force Research Laboratory/RZTA, Wright-Patterson AFB, OH 45433-7251. This document contains export-controlled technical data.	Interim rept. 1 Dec 2007- 31 Dec 2008
AD0444187	DYNA-SOAR PROGRAM PLAN	3/1/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	179	[D2-5697-4]	[WADC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1961. Other requests shall be referred to Air Force Aeronautical Systems Division, Attn: ASZRA), Wright-Patterson AFB, OH 45433.	Not Available
AD0348199	DYNA-SOAR FLIGHT CONTROL SYSTEM STABILITY ANALYSIS	6/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Clements,J. E.]	1	[TN DS80 61]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0461751	DYNA-SOAR SCALE STAGING TEST - TEST NO. 6262	1/30/1963	U	[D - 16]	BOEING CO SEATTLE WA	[Ridgeway, John J.]	345	[D2-90334]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 30 JAN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0446980	DYNA SOAR PROGRAM PLAN (STEP I) GOVERNMENT FURNISHED AIRCRAFT EQUIPMENT (GFAE) PLAN	6/16/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	14	[DN-D2-5697- 21]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 JUN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0346914	PROCEEDINGS OF 1962 X-20A (DYNA-SOAR) SYMPOSIUM. VOLUME V. BIOASTRONAUTICS	3/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	288	[ASD-TDR63- 148-VOL-5]	[TDR63-148- VOL-5,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 25 Apr 2000. Other requests shall be referred to Aeronautical Systems Division, Wright- Patterson AFB, OH 45433.,	Not Available
AD0433991	Design Requirements for Coated Refractory Alloys. Volume 1	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Dreisbach, W. G.]	275	[D2-81113-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432646	DYNA SOAR NOSE CAP ZIRCONIA DEVELOPMENT TEST PLAN	6/25/1961	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[Edwards, R. G.]	24	[AST/E1R- 13434]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jun 1961. Other requests shall be referred to Systems Engineering Group, Research and Technology Div. (AFSC), Wright-Patterson AFB. OH 45433.	Not Available
AD0430470	INDICATOR - SIDE SLIP	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	29	[10-81015]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0296624	VARIABLE RESISTOR INVESTIGATION	8/21/1962	U	[C - 02,23]	HONEYWELL INC HOPKINS MN	[Meyer, T.]	52	[APP-000- 712,IDEP- 661.75.31.16- F5-01]	[661.75.31.16- F5-01,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 21 AUG 1962. Other requests shall be referred to Dept. of Defense, ATTN: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
ADB247324	A Risk Assessment of the Black Horse Military Spaceplane.	6/4/1999	U	[B - 03]	ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KS	[Jones, Soren K.]	117	Not Available	[USACGSC]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational; 4 Jun 99. Other requests shall be referred to HQS, CAC &Ft. Leavenworth, AttN: ATZL-GCJ-S, Ft. Leavenworth, KS 66027-5070.	Master's thesis,

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	·[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347650	DYNA-SOAR STEP I MOCK-UP INSPECTION BOOTH PRESENTATIONS	9/23/1961	U	[C - 02]	MARTIN CO DENVER CO	[Van Arnam, W. D.,Pirrello, C. J.]	257	Not Available	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 SEP 1961. Other requests shall be referred to Wright Air Development Division, Attn: WWZRA, Wright- Patterson AFB, OH 45433.	Not Available
AD0348561	AIR VEHICLE PERFORMANCE CHARACTERISTICS REPORT	1/17/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	150	[D2-8080-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 JAN 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20008. Document partially illegible.	Not Available
AD0432650	NOSE CAP DEVELOPMENT TESTS. ROCKET ENGINE TESTS. DYNA- SOAR	4/19/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Easter, R. D.]	106	[D2-80083- SECT-5]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 APR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0433561	ANALOG COMPUTER SIMULATION OF THE DYNA-SOAR GLIDER INTEGRATED ENVIRONMENTAL CONTROL AND SECONDARY POWER SUBSYSTEMS,	3/29/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Cravens,E. W.]	315	[D2 800013 Vol 3]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB189388	Some Research Problems Associated with Military Space Operations	1/1/1962	U	[C - 02,23]	AIR FORCE CAMBRIDGE RESEARCH LABS HANSCOM AFB MA	Not Available	112	[AFCRL-62-61]	[62-61,AFCRL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1962. Other requests shall be referred to Air Force Cambridge Reserch Labs, Hanscom AFB, MA. Document partially illegible.	Not Available
AD0348306	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	10/20/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR62 408 2 2 3]	Not Available	Not Available	Quarterly program progress rept. no. 3, 1 July30 Sep 62.
AD0273737	FLEXIBLE, LOW POROSITY, WOVEN METALLIC MATERIALS	11/1/1961	U	[C - 02]	FABRIC RESEARCH LABS INC BOSTON MA	[Coplan, Myron J.,Freeston, Jr., W. D.,Powers, Jr., Donald H.]	135	[ASD-61-677]	[61-677,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1961. Other requests shall be referred to Aeronautical Systems Div., Nonmettalic Materials Lab., Wright-Patterson AFB, OH 45433.	Rept. for Mar 1960-Jul 1961
AD0435128	HYDROGEN COOLING EQUIPMENTS BOEING X-20 (DYNASOAR) SPACE GLIDER	3/22/1963	U	[C - 02,23]	GARRETT CORP LOS ANGELES CA AIRESEARCH MFG DIV	[Busch, E. F.]	83	[DS-154-R]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 MAR 1963. Other requests shall be referred to Air Force Systems Command, Wright-Patterson AFB, OH 45433. Document partially illegible.	Monthly progress rept. no. 16 for Feb 1963

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348310	DYNA SOAR (STEP I) COMMUNICATIONS AND DATA LINK	2/28/1961	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	Not Available	Not Available	Not Available	Program progress rept. no. 1, 16 Dec 6015 Feb 61.
AD0430788	PROGRAM PLAN SHF COMMUNICATIONS SITE SURVEY AT EDWARDS AIR FORCE BASE. DYNA SOAR (STEP I) COMMUNICATIONS AND TRACKING SUBSYSTEM.	9/30/1961	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	14	[CR61 408 4 21 1]	Not Available	Not Available	Not Available
AD0409982	DEVELOPMENT OF PROCEDURES FOR SHAPING COLUMBIUM ALLOYS	6/30/1963	U	[C - 02]	UNIVERSAL- CYCLOPS STEEL CORP BRIDGEVILLE PA	[White, G. K.,Cortes, F. R.]	91	[ASD-8-108-1]	[8-108-1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JUN 1963. Other requests shall be referred to Manufacturing Technology Lab., Wright- Patterson AFB, OH 45433.	Interim technical progress rept. no. 1, 1 Apr-30 June 1963 on Phase 1
AD0431878	OPERATING PRACTICE NO. 11. CONFIGURATION AND CHANGE CONTROL X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	12/6/1962	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J INDUSTRIAL ELECTRONIC PRODUCTS	Not Available	1	[OP11]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADC027171	Conceptual Feasibility Study of an Advanced Military Spaceflight Capability. Volume II. Design Study	12/10/1981	U	[B - 03]	AIR FORCE INST OF TECH WRIGHT- PATTERSONAFB OH SCHOOL OF ENGINEERING	[Coty, Phillip,Ellwood , Russell,Fuchse r, Terry,James, Patrick,Robins on, David]	324	[AFIT/GSE/81D- 1-VOL-2]	[AFIT]	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 11 Dec 81. Other requests for this document must be referred to AFWAL/FIMS, Wright-Patterson AFB, OH 45433.	Final rept. 1 Mar-30 Nov 81
AD0430792	FUNCTIONAL INTEGRATION TEST PLAN (PRELIMINARY). X-20 (DYNA- SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	11/30/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	139	[CR62 408 15 3 1]	Not Available	Not Available	Not Available
AD0358526	ARPA PROJECT HIBEX TASK-I PLANNING AND ANALYSIS	4/28/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Smith, C. R.]	412	[D2-99513]	[ARPA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; Apr 1970. Other requests shall be referred to Advanced Ballistic Missile Defense Agency, Attn: HO, Huntsville, AL 35807.	Final rept.
AD0311702	DYNA SOAR (STEP I).	8/11/1960	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	53	[DN D2 7606]	Not Available	Notice: Release only to Department of Defense Agencies is authorized. Other certified requesters shall obtain release approval from Research and Technology Div., (SENX-A), Wright- Patterson AFB, Ohio.	Quarterly management status rept., 11 Apr27 July 60.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0349794	DEVELOPMENT OF SOLID PROPELLANT SYSTEMS CAPABLE OF WITHSTANDING EXTENDED STORAGE IN SPACE ENVIRONMENTS	5/1/1964	U	[C - 02]	THIOKOL CHEMICAL CORP ELKTON MD	[Brownell, Robert M.,Sienicki, Edward. A.,Biddle, Richard. A.,Haley, Kevin J.]	196	[E30-64]	[AFRPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific authority; 21 Aug 2000. Other requests shall be referred to Air force Rocket Propulsion Lab., Edwards AFB, CA.	Final rept., 10 May 62-28 Feb 64
AD0319778	SYMPOSIUM ON BALLISTIC MISSILE DEFENSE GUIDANCE AND CONTROL. SIXTH MEETING 19-20 AUGUST 1958, WASHINGTON, D.C.	12/1/1959	U	[C - 02]	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Not Available	122	[R-59-6]	[ARPA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Dec 1959. Other requests shall be referred to Director, Advanced Research Projects Agency, Arlington, VA.	Not Available
AD044441	GROUND SUPPORT SYSTEM SPECIFICATION (TEST OPERATION PLAN) PART I-VOLUME I OPERATIONAL GROUND SUPPORT EQUIPMENT SYSTEM SPECIFICATION (TEST OPERATION PLAN) DYNA SOAR STEP-I	5/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams, Sears]	567	[ER-11345-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAY 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441668	DYNA-SOAR STRUCTURAL DESIGN CRITERIA - AERO-SPACE GROUND EQUIPMENT	11/1/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Eckblad, David M.]	35	[D2-6967]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 NOV 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0348202	DYNA SOAR STEP I BOOSTER/RADIO GUIDANCE INTERFACE SPECIFICATION	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Akre,R. C.]	11	[MB566]	Not Available	Not Available	Not Available
AD0491189	MANUFACTURING METHODS DEVELOPMENT PLAN, DYNA SOAR STEP 1	10/21/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	96	[D2-5697-7]	[ASC/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1960. Other requests shall be referred to Aeronautical Systems Center, Attn: LMSD, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0338913	ADVANCED DEVELOPMENT OF SATELLITE COMMUNICATION SYSTEMS	1/30/1960	U	[C - 02]	GENERAL ELECTRIC CO ITHACA NY ADVANCED ELECTRONICS CENTER	[Perry, A. D.]	123	[CH-CPR-594]	[USASRDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JAN 1960. Other requests shall be referred to Army Signal Research and Development Laboratory, Fort Monmouth, NJ.	Quarterly progress rept. no. 1, 1 Aug 1959-30 Jan 1960
AD0435024	AFFTC TEST FACILITIES HANDBOOK. SECTION 1. INTRODUCTION	1/1/1944	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CA	Not Available	320	[AFFTC-T1H-63- 2003]	·[T1H-63- 2003,AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1944. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0363976	TITAN II BOOSTER SYSTEM. PRELIMINARY LOGISTIC SUPPORT PLAN. DYNA SOAR STEP-I	5/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	1	[LSDR-1260]	Not Available	Not Available	Not Available
ADB292325	Notices of Changes in: Document Classification, Distribution and Availability, July-September 2003	9/1/2003	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.]	206	[DTIC-OCQ-TR- 2003/07]	[DTIC*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 Sep 2003. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. for 1 Jul- 30 Sep 2003
AD0347864	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM	10/10/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179PR9]	Not Available	Not Available	Quarterly progress rept., 1 July- 30 Sep 61.
AD0404849	HYDROGEN-OXYGEN INTERNAL COMBUSTION ENGINE	3/1/1963	U	[C - 02]	VICKERS INC TORRANCE CA	[Thomas, R. C.,Bass, W. A.,Morgan, N. E.]	132	[ASD-TDR-62- 961]	[TDR-62- 961,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Final rept. 15 June 1961-15 Sep 1962
AD0233190	INDEX OF AEDC TECHNICAL NOTES AND REPORTS 1953-1959	2/1/1960	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[Chumbley, George W.]	201	[AEDC-TN-60- 32]	[TN-60- 32,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Feb 1960. Other requests shall be referred to Director, Arnold Engineering Development Center, Arnold AFS, TN.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441739	INSTALLATION PROCEDURES FOR CONSTANTAN FOIL BAKELITE BACKED STRAIN GAGES ON X-20 (DYNA-SOAR) GLIDERS	5/3/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Chase, L. I.,Dionne, J. B.]	87	[D2-80742]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 03 MAY 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0353218	AIR VEHICLE STABILITY AND CONTROL ANALYSIS REPORT, MODEL 851-1006	8/31/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	177	[D2-8084]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 AUG 1961. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Not Available
AD0434005	REACTION CONTROL SYSTEM PROJECT "X-20" (DYNA-SOAR)	12/26/1963	U	[C - 02,23]	BELL AEROSYSTEMS CO BUFFALO NY	Not Available	20	[BA-8233- 933017]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 29 Jan 2001. Other requests shall be referred to Aeronautical Systems Division, Wright- Patterson AFB, OH 45433., Availability: Document partially illegible.	Program status rept. 23 Nov-12 Dec 1963
AD0437172	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/31/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 35 1]	Not Available	Not Available	Final design analysis rept.
AD0309346	HEAT TRANSFER AND PRESSURE DISTRIBUTION TESTS OF MARTIN- BELL DYNA-SOAR CONFIGURATIONS AT MACH NUMBER 8	7/1/1959	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[PALKO, R.L.,RHUDY, R.W.,FITCH, C.R.]	67	[AEDC-TN-59- 66]	[AEDC]	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0263448	STRESS ANALYSIS APPROACH DYNA- SOAR GLIDER	9/12/1961	U	[F - 05,23]	BOEING CO SEATTLE WASH	[BREEZE,B.G.]	1	[D2 8112]	Not Available	Distribution: Controlled: all requests to Aeronautical Systems Division, attn: ASZRA, W- PAFB, Ohio. Availability: Microfilm only after original copies are exhausted.	Not Available
AD0333498	X-20 (Dyna-Soar)	10/1/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	51	[D2-7326-16]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0311307	DYNA-SOAR (STEP 1) PRIMARY GUIDANCE SUBSYSTEM PROGRAM PLAN. VOLUME 2	3/20/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	Not Available	240	[AERO1179SR2 ]	[ARDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 MAR 1973. Other requests shall be referred to Air Force Research and Development Command, Attn: Dyna Soar Program, Wright- Patterson AFB, OH 45433.	Not Available
AD0361262	Annual progress report no. 1 (Aerospace Corporation)	6/30/1961	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	Not Available	162	[CSR- 594(1990)APR]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JUN 1961. Other requests shall be referred to Air Force Systems Command, Washington, DC.	Annual progress rept. no. 1, 1 Jul 1960-30 Jun 1961

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB298296	Booster Transportation Study	11/1/1962	U	[E - 04]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH DIRECTORATE OF ADVANCED SYSTEMS PLANNING	[Hardy, C. W.]	147	[ASD-TDR-62- 796]	[AFSC/WPAFB ]	Distribution authorized to DoD only; Administrative or Operational Use; Nov 1962. Other requests shall be referred to Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Technical rept.
AD0432935	DYNA-SOAR FLIGHT TERMINATION SYSTEM PERFORMANCE SPECIFICATION	5/25/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Adams, L. D.]	130	[D2-80069]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs office, Washington, DC 20330.	Not Available
AD0325211	Mission Guidance and Energy Management Analysis,	12/1/1960	U	[F - 05]	BOEING CO SEATTLE WASH	[FREDERICKSO N,A.A. JR.]	1	[D2 8088]	Not Available	Not Available	Not Available
AD0464339	Summary of Existing Information Concerning the Explosive Potential of the Hypergolic Propellant Combination N204/50% UDMH - 50% N2H4	4/1/1965	U	[C - 02,23]	UNITED RESEARCH SERVICES CORP BURLINGAME CA	[Willoughby, A. B.,Mansfield, J.,Goodale, T. C.,Wilton, C.]	124	[AFRPL-TR-65- 27]	[TR-65- 27,AFRPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1965. Other requests shall be referred to Air Force Rocket Propulsion Laboratory, Edwards AFB, CA. Document partially illegible.	Technical documentary rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0274010	ASTRONAUTICS INFORMATION. ABSTRACTS VOLUME 5, NO. 3 (ABSTRACTS 5,201-5,330)	3/1/1962	U	[C - 02]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	[HARDGROVE, B. J.,WARREN, F. L.]	54	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC.	Not Available
AD0441886	MULTIPLEX SIMULATION OF THE DYNA-SOAR TEST INSTRUMENTATION SUBSYSTEM.	2/6/1962	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FLA	[Lind,Earl R.]	1	[7660 42]	Not Available	Release or announcement to foreign governments ortheir nationals is not authorized.	Final rept.,
AD0434152	X-20 MANUFACTURING STATUS THROUGH 12-15-63	3/30/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	292	[D2-81257]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 MAR 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0327785	INVESTIGATION OF THE FLUTTER CHARACTERISTICS OF A 0.25-SCALE MODEL OF THE DYNA-SOAR GLIDER AT SUPERSONIC SPEEDS	2/1/1962	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[PERKINS, T. M.,BLACK, J. A.,CHRISTENS ON, R. J.]	42	[AEDC-TDR-62- 20]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1962. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0336521	PROGRAM 624A STANDARDIZED SPACE LAUNCH SYSTEM. PHASE I. TECHNICAL STUDIES. VOLUME I, VEHICLE SYSTEMS	3/1/1962	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Anderson, C.,Beldin, C.,Drake, W. H.,Foy, R.,Giacobine, C. R.]	437	[TDR-930-2116- TR-1-VOL-1]	[DCAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 1962. Other requests shall be referred to Deputy Commander Aerospace Systems, Inglewood, CA.	Not Available
AD0446978	DESIGN REQUIREMENTS SPECIFICATION, FULL PRESSURE SUIT-BODY RESTRAINT SYSTEM	2/6/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Miller, R. R.,Bomarito, L.,Rehkopf, C. L.]	28	[DN- D2-8165]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 06 FEB 1961. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB OH 45433.	Not Available
ADB212039	Goodyear Aerospace Lightweight Armor Capabilities.	12/2/1965	U	[C - 12]	GOODYEAR AEROSPACE CORP AKRON OH	Not Available	22	Not Available	[XD]	Distribution: DTIC users only.	Not Available
ADB021189	Numerical Minimization Methods for Functionals: Comparison and Extensions	7/1/1977	U	[C - 02,23]	TORONTO UNIV DOWNSVIEW (ONTARIO) INST FOR AEROSPACE STUDIES	[Garg, S. C.]	355	[UTIAS-209]	[UTIAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Foreign Government Information; JUL 1977. Other requests shall be referred to Canadian Embassy, 501 Pennsylvania Ave., NW, Washington, DC 20001. Document partially illegible.	Doctoral thesis

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0446982	SPECIFICATION FOR THE DYNA SOAR STEP I MOCKUP, VOLUME 1	3/14/1961	U	[D - 16,23]	BOEING CO SEATTLE WA	[Fritch, J.]	22	[DN-D2-7683- VOL-I]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 14 MAR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0433993	VERIFICATION TEST PLAN FULL SCALE X-20 NOSE CAP ASSEMBLIES, X-20 (DYNA SOAR) NOSE CAP,	6/15/1963	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TEX	[Alvis,E. P.]	1	[3 14000 3R28 rev. A]	Not Available	Not Available	Not Available
AD0432648	DESIGN DEVELOPMENT TEST STATUS.	11/7/1961	U	[C - 12,23]	SUNDSTRAND AVIATION- DENVER COLO	[Brooks,G. S.]	11	[DSR1]	Not Available	Availability: Microfilm only after original copies exhausted.	Monthly rept. no. 1 for 31 Oct 61,
AD0347827	PROPAGATION TEST PROGRAM	3/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	13	[MSF TN D5 59]	Not Available	Not Available	Not Available
AD0430830	FIRE PROTECTION AND SAFETY SUBSYSTEM, PERFORMANCE SPECIFICATION FOR	6/12/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Cowley, R. T.,Kjosness, D. M.]	54	[D2-8098]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 JUN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433563	ANALOG COMPUTER SIMULATION OF THE DYNA-SOAR GLIDER INTEGRATED ENVIRONMENTAL CONTROL AND SECONDARY POWER SUBSYSTEMS, VOLUME I.	3/29/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Masterman,R . J.]	1	[D2 8001 3 vol. 1]	Not Available	Not Available	Not Available
AD0359121	BOOSTER STAGE II ROCKET ENGINE INTERFACE SPECIFICATION FOR DYNA SOAR STEP I BOOSTER SYSTEM	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Maag,K. R.]	20	[MB-561]	Not Available	Not Available	Not Available
AD0348308	SPECIFICATION DYNA SOAR (STEP 1) COMMUNICATIONS AND DATA LINK SUBSYSTEM. GROUNDING AND BONDING REQUIREMENTS SPECIFICATION 400-2	7/31/1961	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	13	Not Available	Not Available	Not Available	Not Available
AD0441778	DEVELOPMENT TEST ENDURANCE GLYCOL TEMPERATURE REGULATING VALVE 154575 USED IN GLYCOL TEMPERATURE AND HYDROGEN PRESSURE CONTROL 179140 BOEING PART 10-20917-8,	1/15/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Toth,J. A.,Chase,A. B.]	3	[DS 253]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB193965	"Bridging the Gap" between an Understanding of the Physics and the Engineering Applications. Proceedings of Institute of Environmental Sciences Annual Technical Meeting, held in Los Angeles, California on April 17, 18 and 19, 1963 at Statler Hilton Hotel, Los Angeles, California	4/1/1963	U	[C - 02]	INSTITUTE OF ENVIRONMENT AL SCIENCES MOUNT PROSPECT IL	Not Available	689	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1963. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301.	Conference proceedings
AD0311704	PRELIMINARY FEASIBILITY TEST INSTRUMENTATION FOR DYNA SOAR MILITARY EQUIPMENT,	10/26/1960	U	[E - 04]	BOEING CO SEATTLE WASH	[Dorwart,Robe rt,Baird,Franci s,Thomasson,L ee,Leonard,Pa ul,Oncley,Paul ]	42	[DN D2 8036]	Not Available	Notice: Release only to Department of Defense agencies is authorized. Other certified requesters shall obtain release approval from Research and Technology Div., Wright- Patterson AFB, Ohio, Attn: SENX-A	Not Available
AD0428936	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM.	1/3/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	34	[AR1179SR35]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOI 3,AFFDL]	-Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB113035	Proceedings of the Autonomous All- Weather Navigation and Landing Workshop Held in Monterey, California on 27-30 January 1986	6/1/1987	U	[X - 07,X - 57]	AIR FORCE WRIGHT AERONAUTICAL LABS WRIGHT- PATTERSON AFB OH	Not Available	301	[AFWAL-TR-87- 3010]	[TR-87- 3010,AFWAL]	Distribution limited to U.S. Gov't. agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with regulations implementing 10 U.S.C. 140c; 10 Jan 86. Other requests must be referred to Air Force Wright Aeronautical Laboratories, Attn: FIGL, Wright-Patterson AFB, OH 45433-6553., This document contains export-controlled technical data.	Final rept.
ADB185893	Astronautics Information. Open Literature Survey. Volume 3, Number 6	6/1/1961	U	[C - 02]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	Not Available	56	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1961. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC.	Not Available
AD0443532	WEIGHT ANALYSIS REPORT, MODEL X-20. Volume 7	7/13/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	[Rankin, C. W.]	421	[D2-81264-7]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 JUL 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0359622	STABILITY ANALYSIS DURING STAGE I FLIGHT. DYNA SOAR STEP-I	8/15/1961	U	[C - 02,23]	MARTIN CO DENVER CO	[Marchetti, R.,Walsh, E. J.]	55	[DS-24-61-REV- A]	[AFSC/SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 AUG 1961. Other requests shall be referred to Air Force Systems Command, Space Systems Division, Los Angeles, CA. Document partially illegible.	Not Available
AD0337897	GLIDER STABILITY AND CONTROL ANALYSIS, MODEL 844-2050	8/2/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	595	[D2-8083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 02 AUG 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0432544	RESISTANCE WELDING SUPER ALLOYS,	1/21/1964	U	[C - 02,23]	BOEING CO SEATTLE WASH	[CRANE,C. H.]	165	[D2 80278]	Not Available	Distribution: NOFORN. Availability: Microfilm only after original copies exhausted.	Not Available
ADB332043	Notices of Changes in: Document Classification, Distribution and Availability, July-September 2007	9/30/2007	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa]	251	[DTIC-OQ-TR- 2008/01]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 SEP 2007. Other requests shall be referred to Defense Technical Information Center, Attn: DTIC-OQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Jul-30 Sep 2007

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348204	DYNA-SOAR BOOSTER MODIFICATION STUDY TOTAL GLIDER ESCAPE CONCEPT	10/24/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Pirrello, C. J.]	87	[DS-12-60]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 OCT 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0440942	A SYMPOSIUM ON TOXICITY IN THE CLOSED ECOLOGICAL SYSTEM	1/1/1943	U	[C - 02]	LOCKHEED MISSILES AND SPACE CO INC PALO ALTO CA	[Honma, M.,Crosby, H. J.]	331	Not Available	[SPO*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1943. Other requests shall be referred to Special Projects Office (Navy), Washington, DC 20350.	Not Available
AD0840795	ATLAS-CENTAUR BOOSTER FOR DYNA SOAR	4/15/1959	U	[C - 02,X - 57]	GENERAL DYNAMICS/AST RONAUTICS SAN DIEGO CA	Not Available	153	[GDA-AZP-099]	[SAMSO]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 15 APR 1959. Other requests shall be referred to Air Force Space And Missile Systems Organization, SAMSO (SMSDI-STINFO) Los Angeles Air Force Station, CA 90045. This document contains export-controlled technical data.	Summary rept.
AD0347870	PERFORMANCE ANALYSIS - ENVIRONMENTAL CONTROL SUBSYSTEM AND CRYOGENIC SUPPLY SUBSYSTEM	7/22/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Slack, R. L.]	491	[D2-8125-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0444160	ENGINEERING PROGRAM STATEMENT X-20 (DYNA-SOAR) GLIDER FLIGHT CONTROL SUBSYSTEM ELECTRONICS	2/20/1961	U	[E - 04,23]	BOEING CO SEATTLE WA	[Tweeddale, A. D.]	36	[D2-7483-0]	[AFSC]	Distribution authorized to DoD only; Administrative/Operational Use; 20 FEB 1961. Other requests shall be referred to Air Force Research and Technology Division, Attn: SENX- A, Wright-Patterson AFB, Ohio 44543. Document partially illegible.	Not Available
AD0432615	INSULATED PANEL DEVELOPMENT DYNA-SOAR,	10/2/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Darcy,Kennet h E.]	290	[D2 80080 Sec. I]	Not Available	Not Available	Not Available
AD0348705	AERODYNAMIC STABILITY AND CONTROL DATA - MODEL 844-2050 (ADDEMDUM)	1/17/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	150	[D2-80065-1]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 JAN 1964. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0402066	DEVELOPMENT OF METHODS TO PRODUCE COLUMBIUM ALLOY CB- 74 (RENUMBERED HAYNES ALLOY CB-752) SHEET	1/1/1963	U	[C - 02]	HAYNES STELLITE CO KOKOMO IN	[Bewley, James G.]	82	[ASD-TDR-63- 201]	[TDR-63- 201,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to Aeronautical Systems Div., Manufacturing Technology Lab., Wright-Patterson AFB, OH 45433.	Final technical documentary rept. 30 Oct 1961-15 Dec 1962

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0340844	GLIDER PERFORMANCE	8/20/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	442	[D2-8080-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 AUG 1963. Other requests shall be referred to Department of the Air Force Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0360958	INORGANIC FIBERS AND WHISKERS AND REINFORCED COMPOSITE MATERIALS	12/31/1965	U	[C - 02]	REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL AL	[McNutt, Paul]	373	[RSIC-352]	[RSIC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1964. Other requests shall be referred to Army Missile Command, Redstone Scientific Information Center, Research and Development, Attn: AMSAM-RD-SS, Redstone Arsenal, AL 35898- 5241.	Bibliography
AD0434007	CRITERIA FOR GROUND TESTING AND EVALUATING THE TEST RESULTS OF DYNA SOAR STRUCTURAL D MONSTRATOR. NO. 4 NOSE CAP	8/13/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Edwards, R. G.]	60	[3- 14000/2R45]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 AUG 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0352313	DYNA-SOAR TITAN III AIR VEHICLE WITH FINS DESCRIPTION, AIR VEHICLE 853-1002	12/26/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Stapels, F. G.,Bono, R. L.]	68	[DN-D2-80740- VOL-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Operational and administrative use; 26 Dec 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC, 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0406860	THERMOELASTIC EFFECTS ON HYPERSONIC STABILITY AND CONTROL. PART 1: HYPERSONIC AERODYNAMICS	5/1/1963	U	[C - 02]	BELL AEROSYSTEMS CO BUFFALO NY	[Batt, James R.]	385	[ASD-TR-61-87- PT-1]	[TR-61-87-PT- 1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Final rept.
ADB278359	Notices of Changes in: Document Classification, Distribution and Availability, January-March 2002	3/1/2002	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.,Rogers, Zena D.]	151	[DTIC-OCQ-TR- 2002/02]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Mar 2002. Other requests shall be referred to DTIC-OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Jan-31 Mar 2002
AD0325209	STRUCTURE DESCRIPTION REPORT	12/1/1961	U	[F - 05]	BOEING CO SEATTLE WASH	[WEERTH,D.E.]	1	[D2 8095]	Not Available	Distribution controlled: All requests to AFWAL/TST Wright-Patterson AFB, OH 45433.	Not Available
ADB163741	Ultrahigh Temperature Composite Assessment Study - Carbon/Carbon	3/1/1992	U	[C - 02,X - 57]	BATTELLE MEMORIAL INST RICHLAND WA PACIFIC NORTHWEST LABS	[Courtricht, E. L.]	80	[WL*-TR-92- 4009]	[TR-92- 4009,WL*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; MAY 1989. Other requests shall be referred to Wright Lab., WL/MLBC, Wright-Patterson AFB, OH 45433-6533. This document contains export- controlled technical data.	Final rept. Sep 1987- May 1989
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	---	-----------	---	----------	--	--	-----	---	-----------------------------	--	--
ADB311232	Propellant Explosive Hazards Study. Volume 2. Technical Discussions	10/1/1989	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Tomei, E. J.]	621	Not Available	[AFSC/SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1989. Other requests shall be referred to Space Systems Div., AF Systems Comd., Los Angeles AFB, PO Box 92960, Los Angeles, CA 90009- 2960.	Not Available
AD0459472	COMMUNICATIONS AND TRACKING FOR THE X-20A (DYNA- SOAR).	5/1/1964	U	[C - 02]	SYSTEMS ENGINEERING GROUP WRIGHT- PATTERSON AFB OHIO	[Grim,H. L.]	37	[SEG-TDR-64- 21]	Not Available	Not Available	Technical documentary rept. May 60- 1963,
AD0309710	AEROELASTIC AND FLUTTER TESTS OF THE BOEING DYNA-SOAR AT TRANSONIC SPEEDS	8/1/1959	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[GALL, E. S.,SPRING, D. J.]	92	[AEDC-TN-59- 83]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; AUG 1959. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available
AD0333432	EMERGENCY DETECTION AND ESCAPE INITIATION SYSTEM. PART III. HAZARD AND FLIGHT DATA FOR LIQUID AND SOLID PROPELLANT BOOSTERS	11/1/1962	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[PITTS, W. C.,EDWARDS, H. H.]	142	[62-ASRM- 2529-52,ASD- TDR-62-276-PT- 3]	[TDR-62-276- PT-3,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1962. Other requests shall be referred to Air Force Aeronautical Systems Division, Flight Dynamics Laboratory, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter,	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0418472	CONFERENCE PROCEEDINGS. 1962	2/9/1962	U	[C - 02,23]	INSTITUTE OF	J. I.] Not Available	445	Not Available	[DOD]	Distribution authorized to U.S. Gov't. agencies	Not Available
	NATIONAL WINTER CONVENTION ON MILITARY ELECTRONICS. FEBRUARY 7-9, 1962, LOS ANGELES, CALIFORNIA				RADIO ENGINEERS INC LOS ANGELES CA					and their contractors; Administrative/Operational Use; 9 Feb 1962. Other requests shall be referred to Department of Defense (DoD), Attn: Public Affairs Office, Washington, DC 20301., Availability: Document partially illegible.	
AD0353192	DYNA-SOAR PROGRAM PLAN (STEP I). SUMMARY. VOLUME II.	9/30/1961	U	[C - 02]	BOEING CO SEATTLE WASH	Not Available	192	[D2 5697 vol. 2]	Not Available	Not Available	Not Available
ADB188342	Large Launch Vehicles Satellites or Orbital Operations Lunar and Inter- Planetary Systems Support Equipment and Operations	5/18/1960	U	[C - 02,23]	MARTIN CO ORLANDO FL	Not Available	53	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 MAY 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0411271	CONTROL SURFACES DEVELOPMENT. DYNA-SOAR	7/12/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Balog, E. M.]	331	[D2-80082]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 JUN 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available
AD0359123	DYNA-SOAR STEP I. PRELIMINARY GOVERNMENT FURNISHED PROPERTY (GFP) PLAN	5/25/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	15	Not Available	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F.	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
	DISCUSSIONS					L.,Linneman, E. R.,Perlmutter, J. I.]					
AD0433923	FABRICATION OF MOLYBDENUM ALLOYS	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Elrod, S. D.]	150	[D2-80273]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0431134	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. SLED TEST OPERATION PLAN,	7/10/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Stephenson,S . K.]	42	[1179SR13]	Not Available	Not Available	Not Available
ADB256462	Notices of Changes in: Document Classification, Distribution and Availability. Apr-Jun 2000	6/1/2000	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.,Rogers, Zena D.]	395	[DTIC-OCQ-TR- 05-2000]	[DTIC*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 Jun 2000. Other requests shall be referred to DTIC- OCQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Not Available
ADB239435	Proceedings for No-Gimbal Inertial Guidance Symposium, 12-13 Apr 1966, Navigation and Guidance Division, Air Force Avionics Laboratory, RTD/AFSC. Vol. 2	5/27/1966	U	[C - 12]	AIR FORCE AVIONICS LAB WRIGHT- PATTERSONAFB OH	Not Available	422	Not Available	[AFAL]	Distribution: DTIC users only.	Conference proceedings 12-13 Apr 66
AD0311706	MOLYBDENUM (MOLY) TRADE STUDY REPORT	1/5/1961	U	[E - 04]	BOEING CO SEATTLE WA	Not Available	174	[DN-D2-8025]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 05 JAN 1961. Other requests shall be referred to Research and Technology Div., Attn: SENX-A, Wright- Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB191110	Thermal Radiation Considerations for Advanced Flight Vehicles	12/28/1961	U	[C - 02]	MCDONNELL AIRCRAFT CORP ST LOUIS MO	[Siegel, Howard J.,Kummer, Donald L.]	14	[280E]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 DEC 1961. Other requests shall be referred to Department of Defense, attn: Public Affairs, Washington DC 20301.	Not Available
AD0432980	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. OPERATION AND MAINTENANCE INSTRUCTIONS.	3/15/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179M1B Vol. 3]	Not Available	Not Available	Not Available
ADB394253	Lessons Learned - High- Temperature Materials for Aerospace Hot-Gas Control and Reentry Systems	11/17/2010	U	[C - 02,X - 57]	LOCKHEED MARTIN SPACE SYSTEMS CO SUNNVALE CA	[Henshall, Connie A.,Packer, Charles M.,Prasad, Sanjay B.]	27	Not Available	[SSP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 15 SEP 2010. Other requests shall be referred to Director, Strategic Systems Programs (SP162), Department of the Navy, Washington Navy Yard, DC 20374. This document contains export- controlled technical data.	Conference paper
AD0321389	HEAT TRANSFER AND PRESSURE DISTRIBUTION TESTS ON A BLUNTED DELTA WING AND SEVERAL BODY, ELEVON, AND FIN ATTACHMENTS	1/1/1961	U	[C - 02]	ARO INC ARNOLD AFS TN	[HIERS, R. S.,HILLSAMER, M. E.]	50	[AEDC-TN-60- 238]	[TN-60- 238,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1961. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389- 2305.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0335468	DYNA SOAR STEP I PROGRAM	7/24/1961	U	[C - 02]	AEROJET- GENERAL CORP SACRAMENTO CALIF	Not Available	1	[613 2 2 Q 2]	Not Available	Not Available	Not Available
AD0359015	GENERAL PERFORMANCE EVALUATION OF THE TITAN III SPACE LAUNCHING SYSTEM	6/17/1962	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CALIF	[Augustine,F. E.]	34	[AS62-0000- 00596]	Not Available	Not Available	Not Available
AD0435892	DYNA-SOAR A. P. U. THERMODYNAMIC SYSTEM	4/29/1963	U	[C - 02,23]	SUNDSTRAND AVIATION- DENVER CO	Not Available	174	[24-DER-63]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 APR 1963. Other requests shall be referred to Air Force Systems Command, AFMC, Attn: CSO.SCOC, 4225 Logistics Avenue, Room S132, Wright- Patterson AFB, OH 45433-5714. Document partially illegible.	Design Analysis rept.
AD0448447	ELECTRICAL POWER SYSTEMS FOR X-20A (DYNA-SOAR) VEHICLE	7/1/1964	U	[C - 02]	SYSTEMS ENGINEERING GROUP WRIGHT PATTERSON AFB OH	[Midyett, Charles L.]	34	[SEG-TDR-64- 33]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1964. Other requests shall be referred to Research and Technology Div., SEG, Wright-Patterson AFB, OH 45433.	Rept. for 1960-Dec 1963
AD0432371	A THECHNICAL DESCRIPTION OF ADVANCED CRYOGENICS SERVICING SYSTEMS,	1/23/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Flash,P. N.,Carter,M.,Fi tch,J.]	1	[D2 81025]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348206	DYNA-SOAR BOOSTER INTERIM REFERENCE CONFIGURATION WEIGHT AND BALANCE DATA	9/1/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Van Arnam, Jr, W. D.]	57	[DS-9-60]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 SEP 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0441676	AUTOMATED WIRE DATA PROCESSING SYSTEM	3/20/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[King, Walter S.]	79	[80704]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 MAR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0318270	PRESSURE DISTRIBUTION TESTS TO DETERMINE TRAILING EDGE CONTROL EFFECTIVENESS ON A BOEING DYNA-SOAR MODEL AT MACH NUMBERS FROM 16 TO 20	8/1/1960	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[EDENFIELD, E. E.,WOLNY, W.,SHELTON, P. C.]	28	[TN-60-146]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available
AD0311853	DYNA SOAR STEP I	7/1/1960	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	232	[DN-D2-7326- 1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Quarterly technical progress rept. no. 1, Apr-July 1960

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB326762	An Analysis of Operationally Responsive Space in Terms of Cost and Utility With the Use of a Hybrid Launch Vehicle	3/1/2007	U	[B - 03,26]	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEMENT	[Fram, Bryan J.]	78	[AFIT/GA/ENY/ 07-M06]	[AFIT]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; 05 FEB 2007. Other requests shall be referred to Air Force Inst. of Technology, Attn: AFIT/ENY, 2950 Hobson Way, Wright-Patterson AFB, OH 45433. This document is not available from DTIC in microfiche.	Master's thesis
AD0358068	DYNA-SOAR STEP I VIBRATION ANALYSIS	11/13/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Cokonis,T. J.,Lauzon,J. H.]	92	[DS-117-61]	Not Available	Not Available	Not Available
AD0347868	SYSTEM REQUIREMENTS - DYNA- SOAR,	10/22/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[Leo,D. W.]	88	[D2 80637]	Not Available	Notice: Only military offices may requestfrom DDC.	Not Available
AD0484000	X-20 (DYNA-SOAR) CONTINUATION ITEMS.	12/1/1965	U	[C - 02]	SYSTEMS ENGINEERING GROUP RESEARCH AND TECHNOLOGY DIV WRIGHT- PATTERSON AFB OHIO	[Hutchinson,E dwin D.]	57	[SEG-TR-65-52]	Not Available	Distribution: No Foreign without approval of Systems Engineering Group, Research and Technology Div., Wright-Patterson AFB, Ohio 45433. Attn: Directorate of Systems Engineering A, Deputy for Systems Engineering.	Technical rept. Dec 63- Aug 65,

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432617	MISCELLANEOUS COATING DATA,	12/26/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Legan,D. J.]	44	[D2 81118]	Not Available	Not Available	Not Available
AD0348707	AERODYNAMIC STABILITY AND CONTROL DATA MODEL 844-2050. X-20 (DYNA SOAR)	7/1/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	684	[D2-80065]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0403516	SYNTHESIS AND EVALUATION OF POLY(PHENYLENE)TRI AZOLES AND RELATED POLYMERS	3/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV EGLIN AFB FL	[Lilyquist, M. R.,Holsten, J. R.]	64	[ASD-TDR-62- 485-PT-2]	[TDR-62-485- PT-2,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 1963. Other requests shall be referred to Directorate Materials and Processes; Areonautical Systems Division, Attn: AFSC, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Final rept. 1 Apr 1962-28 Feb 1963
AD0352315	SYSTEM DESCRIPTION OF DYNA- SOAR	3/28/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Campbell, R. L.]	509	[DN-D2-6909- 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 MAR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0342493	Solid Rocket Booster System for DYNA-SOAR Weapons System. Phase I: Project DYNA-SOAR	6/1/1959	U	[F - 05]	AEROJET- GENERAL CORP SACRAMENTO CA	Not Available	120	[AGC- 3571,01F5]	[BMD]	Distribution: Further dissemination only as directed by Cmdr., USAF Ballistic Missile Division, Attn: Tech Librarian, Edwards AFB, CA, 30 Jun 71 or higher DoD authority.	Final rept., 17 July 58-8 June 59
AD0325291	Estimated Weight Report DYNA- SOAR.	12/1/1961	U	[F - 05]	BOEING CO SEATTLE WASH	[DUNLAP,C.F., NORBERG,B.E. ]	1	[D52 8085]	Not Available	Not Available	Not Available
AD0319001	Dyna-Soar. Human Engineering Report.	3/1/1959	U	[E - 04]	MARTIN CO BALTIMORE MD	Not Available	558	[ER10367]	Not Available	Distribution: DoD only: others to Headquarters, Wright Air Development Div., Wright-Patterson AFB, Ohio Attn: WWZRA.	Not Available
ADB270679	Evaluation of Fasteners and Fastener Materials for Space Vehicles	12/31/1965	U	[B - 03]	STANDARD PRESSED STEEL CO JENKINTOWN PA SPS LABS	[Glackin, J. J.,Gowen, E. F., Jr.]	400	[CPB 02]	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Dec 1964. Other requests shall be referred to NASA, Washington, DC 20546.	Annual rept. Nov 1963- Nov 1964
AD0432585	MISCELLANEOUS NON-METALS DATA,	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Legan,D. J.]	79	[D2 81119]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB176302	Soviet Views on Military Operations in Space	10/1/1985	U	[E - 04,X - 57]	TEXAS A AND M UNIV COLLEGE STATION	[Kipp, Jacob W.,Monks, Alfred L.,Muniz, Joseph J.,Stubbs, Kevin D.,Thomas, Richard E.,Wright, Ronald J.]	283	[OSD/NA-86- 0016]	[86- 0016,OSD/NA ]	Distribution authorized to DoD only; Direct Military Support; 01 OCT 1985. Other requests shall be referred to Defense Office of the Secretary of Defense, Attn: OSD/Net Assessment, The Pentagon, Washington, DC 20301. This document contains export- controlled technical data.	Final rept.
AD0463870	DEVELOPMENT OF PROTECTIVE COATINGS FOR TANTALUM BASE ALLOYS	12/7/1964	U	[C - 02]	SOLAR TURBINES INTERNATIONAL SAN DIEGO CA	[Wimber, R. T.]	37	[RDR-1360-6]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 DEC 1964. Other requests shall be referred to Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Quarterly progress rept. no. 6, 1 Sep-30 Nov 1964
AD0266730	1961 COMPENDIUM OF SYMPOSIUM PAPERS, VOLUME 1	9/1/1961	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	436	[ASD-TR-61- 394-VOL-1]	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1961. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353194	PERFORMANCE REQUIREMENTS FOR DYNA-SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM	9/8/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Johnson, J. W.,Shuck, D. O.,Piltz, F.]	121	[D2-7417-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 SEP 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0306585	LONG RANGE INTERCEPTOR F-108 WEAPON SYSTEM	4/10/1959	U	[B - 03,23]	NORTH AMERICAN AVIATION INC LOS ANGELES CA	Not Available	170	[NA-57-916- 21]	[ASD]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; Apr 1959. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB. OH 45433., Availability: Document partially illegible.	Monthly progress rept. no. 21 for Mar 1959
AD0352462	DYNA SOAR STEP II PROGRAM COST ESTIMATES	6/22/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Miller, William G.]	29	[D2-80678]	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JUN 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0354642	LOW L/D SUBSONIC APPROACH AND LANDING PERFORMANCE OF AN F-106A MODIFIED WITH DRAG PLATES. APPENDIX VI	10/1/1964	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CA	[Stetson, John R.,Crews, Albert H., Jr.]	8	[AFFTC-TDR-64- 25-APP-6]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA 93523.	Technical documentary rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347835	THE DETECTION OF MALFUNCTION OF A DUAL INERTIAL NAVIGATION SUB-SYSTEM	4/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	[Crawford,J.,M aComber,G.,F ernandez,M.,S mith,M.,Arenb erg,S.]	9	[MSF TN D3 59]	Not Available	Not Available	Not Available
AD0361341	A POST-1970 EXPENDABLE LAUNCH VEHICLE SYSTEM. VOLUME 1. VEHICLE DESIGN	5/1/1965	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Sears, G. A.]	74	[TDR-469(5520- 30)-1-VOL- 1,SSD-TR-65- 40-VOL-1]	[TR-65-40-VOL 1,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 MAY 1965. Other requests shall be referred to Air Force Space Systems Division, Los Angeles AFB, CA.	Not Available
AD0295902	EXIT, SPACE AND RE-ENTRY STRUCTURAL DESIGN CRITERIA	12/1/1962	U	[C - 02]	REPUBLIC AVIATION CORP NEW YORK	[Epstein, A.,Hamilton, A. F.]	340	[ASD-TDR-62- 641]	[TDR-62- 641,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available
AD0431136	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. RELIABILITY DETAILED SYSTEM ANALYSIS. SUPPLEMENT.	6/3/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	Not Available	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0806105	NITROGEN TETROXIDE/TITANIUM ALLOY STRESS CORROSION INVESTIGATION. VOLUME 4	6/20/1966	U	[B - 03]	NORTH AMERICAN AVIATION INC DOWNEY CA SPACE AND INFORMATION SYSTEMS DIV	Not Available	132	[8271-928060- VOL-4,IDEP- 805.70.20.70- F1-07]	[805.70.20.70- F1-07,IDEP]	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 01 MAR 1971. Other requests shall be referred to Naval Fleet Missile Systems Analysis and Evaluation Group (Code 262), Attn: GIDEP Office, Corona, CA 91720.	Report summary sheet
AD0348316	HEAT TRANSFER DESIGN ANALYSIS DYNA SOAR ATTITUDE JET ASSEMBLIES	12/21/1962	U	[C - 02]	BELL AEROSYSTEMS CO BUFFALO N Y	[Harms,Richar d J.]	30	[8233 937001]	Not Available	Not Available	Not Available
AD0324339	STRUCTURAL INTEGRITY DEVELOPMENT AND TEST PROGRAM. DETAIL PLAN. STRUCTURES TECHNOLOGY	12/1/1960	U	[F - 05]	BOEING CO SEATTLE WASH	Not Available	1	[D2 6783 1]	Not Available	Distribution: Controlled: all requests to Wright Air Development Division, Attn: WAZR. Wright- Patterson AFB, Ohio.	Not Available
AD0311712	DYNA SOAR ADVANCED WEAPON SYSTEMS CONCEPT STUDIES SATELLITE INTERCEPTOR	1/1/1959	U	[C - 02,23]	CHANCE VOUGHT CORP DALLAS TX	Not Available	126	[E9R-12092]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1959. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB014501	Bibliography on Metallic Oxides	5/1/1975	U	[B - 03,23]	MCDONNELL AIRCRAFT CO ST LOUIS MO	Not Available	192	[MAC-LB- 689,GIDEP- E045- 1162,GIDEP- 347.10.00.00- F4-87]	[E045- 1162,347.10.0 0.00-F4- 87,GIDEP]	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; 21 OCT 1976. Other requests shall be referred to Officer-in-Charge, GIDEP Operations Center, Corona, CA 91720. Document partially illegible.	Not Available
AD0347906	PROGRAM PLAN. VOLUME 3. FACILITIES PLAN. DYNA-SOAR, STEP- I	8/12/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	51	[ER-11337-3]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 AUG 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB237937	Coatings for the Protection of Refractory Metals from Oxidation	11/24/1961	U	[C - 12]	BATTELLE MEMORIAL INST COLUMBUS OH DEFENSE METALS INFORMATION CENTER	[Krier, C. A.]	235	[DMIC-162]	[XD]	Distribution: DTIC users only.	Not Available
ADB340696	Notices of Changes in: Document Classification, Distribution and Availability, April-June 2008	6/1/2008	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence]	608	[DTIC-OQ-TR- 2008/10]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 JUN 2008. Other requests shall be referred to Defense Technical Information Center, ATTN: OQ, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. 1 Apr- 30 Jun 2008

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB093696	National Security Implications of the Soviet Manned Space Program	3/1/1985	U	[C - 02]	NATIONAL WAR COLLEGE FORT MCNAIR DC	[Magnan, J.]	61	[NDU/NWC- SSP-85-72]	[NDU/NWC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1985. Other requests shall be referred to National War College, Director of Research, Washington, DC 20319-6000.	Final rept.
ADB190953	NASP Materials and Structures Augmentation Program. High Speed Creep Strength Materials. Volume 2. Iron Aluminides, Superalloy Composites, Mo-Re Coatings and Titanium Coatings.	3/1/1993	U	[C - 02,X - 57]	PRATT AND WHITNEY WEST PALM BEACH FL	[Adair, A. M.,Barkalow, R. H.,Mayor, R. A.]	440	[NASP-CR-1147 Vol-2]	[CR-1147-Vol- 2,NASP]	Distribution authorized to US Gov't. agencies and their contractors; Critical Technology; 30 Nov 90. Other requests shall be referred to NASP-JPO, Wright-Patterson AFB, OH 45433. This document contains export- controlled technical data.,	Final rept. 1 Mar 88-31 Dec 91,
AD0298352	FORMABILITY TESTS ON MO5TI (EFFECTS OF STRAINING ON RECRYSTALLIZATION OF MO5TI)	6/27/1961	U	[D - 16,23]	BOEING CO SEATTLE WA	[MARR, F. G.]	20	[T-2-2404- S7,IDEP- 502.30.00.80- C6-07]	[502.30.00.80- C6-07,IDEP]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 06 JUN 1961. Other requests shall be referred to Interagency Data Exchange Program, Washington, DC. Document partially illegible.	Not Available
AD0444200	DEVELOPMENT TEST PLAN - DESIGN INTEGRATION DYNA-SOAR	3/19/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Husting, H. W.]	101	[D2-5697-16- VOL-6]	[AFSC/WPAFB ]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1961. Other requests shall be referred to Air Force Systems Command, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311855	ESCAPE SUBSYSTEM TRADE STUDY	10/20/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	388	[DN-D2-7291]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 OCT 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0355516	RESPONSE OF ELECTROMAGNETIC SIGNALS TO MODIFIED PLASMAS	9/1/1964	U	[C - 02]	SPACE SCIENCES INC WALTHAM MA	[Kendall, Ernest T.,Kulpa, Stanley M.,Winston, Arthur W.]	132	[RADC-TDR-64- 209]	[TDR-64- 209,RADC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1964. Other requests shall be referred to Rome Air Development Center, AFSC, Griffiss AFB, NY.	Final rept.
ADB186131	Orbital Launch Operations. Volume 7. Secondary Power	1/1/1962	U	[C - 02,23]	SPERRY RAND CORP GREAT NECK NY SPERRY SYSTEMS MANAGEMENT	Not Available	86	Not Available	[MSFC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1962. Other requests shall be referred to the National Aeronautics and Space Administration, George C. Marshall Space Flight Center, Washington, DC. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0455327	STRENGTH EVALUATION OF CORNING 7940 FUSED SILICA GLASS	8/7/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	[Horton, R. E.]	40	[D2-81286]	[AFML]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 AUG 1964. Other requests shall be referred to Air Force Systems Command, Flight Dynamics Laboratory, Research and Technology Division, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0224603	Investigation of Heat Transfer in Regions of Surface Distortion on a Flat Plate	10/1/1963	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	Not Available	35	[TDR-63-218]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; Oct 1963. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFS, TN.	Not Available
AD0427137	HOW PERT IS USED IN MANAGING THE X-20 (DYNA-SOAR) PROGRAM,	9/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	[Sadow,Raym ond M.]	31	[ASD-TDR63 698]	[TDR63 698]	Not Available	Not Available
AD0432619	FUSION WELDING OF SUPER ALLOYS,	1/21/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Crane,C. H.]	85	[D2 80279]	Not Available	Not Available	Not Available
AD0336886	ADVANCED DESIGN TRAINER. VOLUME III. APPENDICES	6/1/1960	U	[C - 02]	GENERAL PRECISION INC PALO ALTO CALIF LINK DIV	Not Available	1	[GPI-WDR-47- Vol-3,ARDC- SR49756]	[SR49756]	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0447609	AN INVESTIGATION OF RE-ENTRY CONFIGURATIONS HAVING LARGE LATERAL RANGE CAPABILITY	5/1/1964	U	[C - 02]	SYSTEMS ENGINEERING GROUP WRIGHT PATTERSON AFB OH	[Xenakis, George,Estepp , Gerald W.,Henkener, Billy J.,McCarthy, James P.]	121	[SEG-TDR-64- 9]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1964. Other requests shall be referred to Systems Engineering Group, AFSC, Wright-Patterson AFB, OH.	Technical documentary rept
ADB236564	Notices of Changes in Classification, Distribution, and Availability. June 01, 1998-June 30, 1998.	6/30/1998	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William B.,Keith, Tracey,Rogers, Zena D.]	28	[DTIC/TR-98/5]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 Apr 98. Other requests shall be referred to DTIC- OCQ, Fort Belvoir, VA 22060-6218	Technical rept. 1-30 Jun 98
ADB206369	Department of Defense Program on Materials Research and Development. Volume 1. Summary Reports of the Steering Committee and the Review Committees. 1961- 1962.	12/31/1963	U	[C - 12]	MATERIALS ADVISORY BOARD (NAS- NRC) WASHINGTON DC	Not Available	136	[MAB-187-M- VOL-1]	[DOD]	Distribution: DTIC users only.	Not Available
AD0432623	DYNA-SOAR ELECTRICAL POWER GENERATION SYSTEM.	11/1/1963	U	[C - 02]	WESTINGHOUSE ELECTRIC CORP LIMA OHIO	Not Available	1	[Rept. no.,I. B. 2920 23]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB183075	Aerospace Glossary	9/1/1959	U	[C - 02]	AIR UNIV MAXWELL AFB AL RESEARCH STUDIES INST	[Heflin <i>,</i> Woodford A.]	119	[AU-282-58- RSI]	[AU]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1959. Other requests shall be referred to Air Force Air University, Research Studies Institute, Maxwell AFB, AL.	Not Available
AD0347770	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM. THREE AXIS ERROR DETAILED SYSTEM ANALYSIS. PART III. INERTIAL SYSTEM PERFORMANCE -STEP II-A (ONCE AROUND) FLIGHT	5/15/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	114	[1179SR7E]	Not Available	Not Available	Not Available
AD0378621	HYPERSONIC AIRCRAFT AUXILIARY POWER SUBSYSTEM ANALYSIS. VOLUME 1. SUBSYSTEM SELECTION	1/1/1967	U	[C - 02,X - 57]	DOUGLAS AIRCRAFT CO LONG BEACH CA AIRCRAFT DIV	[Thayer, William W.]	291	[AFAPL-TR-66- 125-VOL-1]	[TR-66-125- VOL-1,AFAPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 30 Sep 2002. Other requests shall be referred to Air Force Research Lab., Attn: PRP, Wright- Patterson AFB, OH 45433., This document contains export-controlled technical data.	Final rept. 1 Apr-31 Oct 1966
AD0353196	DYNA-SOAR STEP I - TITAN II BOOSTER PERFORMANCE SPECIFICATION	5/18/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Baldwin, Floyd L.]	42	[DN-D2-80018]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 MAY 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0352464	PILOTED BOOST SIMULATION (STATIC)	5/29/1962	U	[E - 04]	BOEING CO SEATTLE WA	[Gelzer, J. W.]	77	[D2-80664]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 29 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Test rept.
AD0441896	DEVELOPMENT 500-HOUR ENDURANCE TEST PILOT COMPARTMENT FAN 207763 USED ON PILOT COMPARTMENT COOLING UNIT 178380 BOEING X- 20 (DYNA-SOAR) PART 10-20917-1,	1/8/1964	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF	[Kitaguchi,S. S.,Bills,R. T.]	4	[DS256]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0403414	SOVIET MILITARY STRATEGY	4/1/1963	U	[C - 02,23]	RAND CORP SANTA MONICA CA	[Sokolovskii, V. D.]	539	[R-416-PR]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Foreign Government Information; APR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0444199	GENERAL REQUIREMENTS SUPPLEMENT TO THE SOURCE CONTROL DRAWING FOR DYNA SOAR	8/25/1960	U	[C - 02]	BOEING CO SEATTLE WA	[Harris, R. E.]	82	[D2-6558]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; AUG 1960. Other requests shall be referred to Air Force Aeronautical Systems Division, Wright- Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0823918	THE PREPARATION OF ORGANOMETALLIC DERIVATIVES OF INORGANIC 'BENZENOID' COMPOUNDS	3/1/1964	U	[C - 02,23]	MASSACHUSETT S INST OF TECH CAMBRIDGE DEPT OF CHEMISTRY	[Seyferth, Dietmar,Sato, Y.,Welch, D. E.]	38	[ASD-TR-61-1- PT-4]	[TR-61-1-PT- 4,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 1964. Other requests shall be referred to Air Force Materials Lab., Attn: MANP. Wright-Patterson AFB, OH. 45433., Availability: Document partially illegible.	Technical documentary rept. 1 Jan-30 Sep 1963
AD0347658	X-20A ABORT AND SAFETY ANALYSIS	12/30/1964	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	53	[D2-81007]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0431747	MANUFACTURING FACILITIES PLAN.	11/8/1961	U	[C - 02]	BOEING CO SEATTLE WASH	Not Available	127	[D2 5697 15]	Not Available	Not Available	Not Available
AD0347837	AEROELASTICITY SUPPLEMENT REPORT	4/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	[Batt,J. R.,Bilz,J. L.]	49	[TN J13 59]	Not Available	Not Available	Not Available
AD0433569	HYDROGEN COOLING EQUIPMENTS - INTEGRATED HYDROGEN COOLING AND SECONDARY POWER SUBSYSTEM	4/2/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	182	[10-20917-REV- L]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 02 APR 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433927	ACCESSORY POWER UNIT FOR X-20 (DYNA-SOAR).	1/10/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	99	[DSR14 15]	Not Available	Not Available	Not Available
AD0322949	FORCE TESTS OF THE AD-5401-1 DYNA-SOAR MODELS AT MACH NUMBER 8	4/1/1961	U	[C - 02]	ARO INC ARNOLD AFS TN	[CLARK, E. L.,MALLARD, S. R.]	40	[AEDC-TN-61- 48]	[TN-61- 48,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; APR 1961. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389 2305.	Not Available
AD0348318	DETERMINATION OF DYNA SOAR REACTION CONTROL POWER COMPONENT SINGLE SYSTEM MEAN-TIME-BETWEEN-FAILURE	12/21/1961	U	[C - 02]	TRW INC CLEVELAND OHIO	Not Available	3	[REL82]	Not Available	Not Available	Not Available
AD0433931	ACCESSORY POWER UNIT FOR X-20 (DYNA-SOAR).	11/10/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Rand,L. T.]	87	[DSR13]	Not Available	Not Available	Monthly Status rept. for 1-31 Oct 62,
ADB355187	Notice of Changes in: Document Classification, Distribution and Availability	12/1/2009	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence]	246	Not Available	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 DEC 2009. Other requests shall be referred to Defense Technical Information Center, Suite 0944, Fort Belvoit, VA 22060-6218.	Quarterly rept. 1 Oct- 31 Dec 2009

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB208592	Development of Refractory Fabrics.	4/8/1963	U	[C - 12,23]	HUGHES AIRCRAFT CO CULVER CITY CA	[Gates, L. E.,Lent, W. E.]	64	Not Available	[XD]	Distribution: DTIC users only., Availability: Document partially illegible.	Final rept. 1 Oct 60-2 Dec 62,
AD0325077	INVESTIGATION OF THE FLUTTER CHARACTERISTICS OF A 0.25-SCALE MODEL OF THE DYNA-SOAR GLIDER AT TRANSONIC SPEEDS	9/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[PERKINS,T.M. ,BLACK,J.A.,CH RISTENSON,R.J .]	1	[TN61 109]	Not Available	Not Available	Not Available
AD0311177	SATURN MISSILE-WINGED PAYLOADS. PRELIMINARY BENDING MOMENTS AND DEFLECTIONS DUE TO WIND VELOCITIES WHILE INSTALLED ON THE LAUNCHER	10/12/1959	U	[C - 02,23]	ARMY BALLISTIC MISSILE AGENCY REDSTONE ARSENAL AL	[Moreland, V. W.]	21	[ABMA-DSF-TN- 25-59]	[ABMA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1959. Other requests shall be referred to Army Ballistic Missile Agency, Structures and Mechanics Laboratory, Redstone Arsenal, AL. Document partially illegible.	Not Available
AD0325081	MATHEMATICAL SYSTEM MODEL. A STATIC AND DYNAMIC ANALYSIS OF THE INTEGRATION OF THE ENVIRONMENTAL CONTROL AND SECONDARY POWER SUBSYSTEMS	12/1/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[CRAVENS, E. W.]	440	[D280001-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0346818	PRESSURE DISTRIBUTION TESTS OF THE DYNA SOAR X-20A CONFIGURATION WITH REDESIGNED CONTROL SURFACES AT MACH 10	1/1/1964	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[Rhudy,R. W.,Burdette,J. E.]	31	[AEDC-TDR64 8]	[TDR64 8]	Not Available	Not Available
AD0347729	4.17% SCALE DYNA-SOAR HEAT TRANSFER WIND TUNNEL TEST RESULTS, VOLUME I ANALYSIS AND CORRELATION	11/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Buckley,Frank T. ,Jr.]	73	[ER11922]	Not Available	Not Available	Not Available
AD0347908	MALFUNCTION DETECTION AND WARNING SYSTEM TRADE STUDY. DYNA SOAR STEP-I	10/3/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Curlander, C.]	242	[ER-11341]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 03 OCT 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0445543	AIR FORCE MISSILE TEST CENTER FACILITIES (TITAN II). DYNA SOAR STEP-I	8/15/1961	U	[C - 02,23]	MARTIN CO BALTIMORE MD	[Williams, Sean]	81	[ER-11363A]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 AUG 1961. Other requests shall be referred to Air Force Space Systems Division (Inglewood), Attn: SMC/HO, Los Angeles AFB, CA. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347733	DYNA-SOAR PRIMARY GUIDANCE SUBSYSTEM. PGS MULTIORBIT PERFORMANCE ANALYSIS	6/15/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Scheidenhel m,R.]	1	[1179SR16]	Not Available	Not Available	Not Available
AD0810650	ACOUSTIC NOISE REDUCTION IN HELMET-TO-SUIT MATING.	1/1/1967	U	[B - 03]	CBS LABS STAMFORD CONN	[Abbagnaro,Lo uis A.,Rosenheck, Allan J.,DiMattia,Alf red L.]	62	[CLD- 1770,AFAL-TR- 67-18]	[TR-67-18]	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 12 Jan 72. Other requests for this document must be referred to Director, Air Force Avionics Lab., Wright-Patterson AFB, Ohio 45433.	Final rept. Jan-Dec 66,
AD0347912	GLIDER STABILITY AND CONTROL ANALYSIS, MODEL 844-2050 (ADDENDUM)	1/10/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	408	[D2-8083-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 JAN 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0432912	DESIGN ANALYSIS REPORT X-20 (DYNA-SOAR) 876C CONTROL SYSTEM.	12/13/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	7	[31DER62 rev. C]	Not Available	Not Available	Not Available
AD0433823	REPORT OF QUALIFICATION TEST ON X-20 (DYNA SOAR) GLIDER ELECTRIC SYSTEM SECTION 5 CURRENT TRANSFORMER ASSEMBLY	3/1/1963	U	[C - 02]	WESTINGHOUSE ELECTRIC CORP LIMA OH	Not Available	69	[LY15506]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431034	BOOSTER HYDRAULIC SYSTEM DESIGN STUDY,	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Mitchell,E. J.]	30	[DS 60 61 rev. A]	Not Available	Not Available	Not Available
AD0351162	RESULTS OF X-20 (DYNA SOAR) PITCH AXIS BODY BENDING PARAMETRIC STUDY	2/15/1963	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	1	[CEL DS 404]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0348214	DYNA SOAR STEP-I, BOOSTER GUIDANCE AND CONTROL CONFIGURATION TRADE STUDY	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Llewellyn,J. A.]	55	[DS8 61 rev. A]	Not Available	Not Available	Not Available
AD0311857	ESCAPE SUBSYSTEM TRADE STUDY	9/14/1960	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	29	[DN-D2-7291- 1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 SEP 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0327579	DYNA SOAR (U)	1/20/1962	U	[C - 02]	BURROUGHS CORP DETROIT MICH	[HOLECZY,A.A. ,ONEILL,J.J.,SH UMAN,R.Z.]	13	Not Available	Not Available	Not Available	Quarterly rept. no. 1, 1 Sep-31 Dec 61.
AD0363988	RESULTS OF 2.3% SCALE DYNA- SOAR STAGE I/STAGE II STATIC STAGING WIND TUNNEL TEST, VOLUME III	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Thomas,C. G.]	356	[ER-11-352-Vol- 3]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0350999	PROJECT WEIGHT AND BALANCE. STATUS REPORT DYNA-SOAR	3/23/1962	U	[E - 04]	BOEING CO SEATTLE WA	[Hassman, L. T.]	825	[D2-80609]	[BSD]	Distribution authorized to DoD only; Operational and administratrive use; 23 Mar 1962. Other requests shall be referred to Ballistic Systems Division, Norton AFB, CA.	Not Available
AD0311861	MISSION GUIDANCE AND ENERGY MANAGEMENT ANALYSIS REPORT	12/12/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	[Frederickson, Jr, A. A.]	287	[DN-D2-8088]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 DEC 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0821351	TITAN-III SOLID ROCKET MOTOR EXPLOSION HAZARD ANALYSIS	1/18/1966	U	[B - 03]	AEROSPACE CORP EL SEGUNDO CA EL SEGUNDO TECHNICAL OPERATIONS	[Barker, L. I.,Stanick, S. W.]	31	[TOR-669(6121 60)-1]	- [SSD]	Distribution authorized to U.S. Gov't. agencies only; Specific Authority; 18 JAN 1966. Other requests shall be referred to US Air Force Space and Missile Systems Organization, Attn: SMEA via PMOH-STINFO, Los Angeles AFB, CA 90045.	Technical operating rept.
ADB185365	Structures for Manned Entry Vehicles	7/26/1961	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMIN LANGLEY RESEARCH CENTER HAMPTON VA	[Heldenfels, R.]	27	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 JUL 1961. Other requests shall be referred to National Aeronautics and Space Administration, Attn: AO, 300 "E" Street, SW, Washington, DC 20546- 0001.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0337373	2% MODEL SCALE 624A STATIC STAGING AERODYNAMIC FORCE TEST POST-TEST REPORT, NASA- LANGLEY UNITARY PLAN WIND TUNNEL	6/1/1963	U	[C - 02]	MARTIN CO DENVER CO	[Ilgen, P.]	133	[SSD-CR63 105]	[CR63 105]	Not Available	Not Available
AD0347768	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. VOLUME I SECTIONS 1 THROUGH 5	9/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Jones,M. D.]	1	[R1179SR30Vol . 1]	Not Available	Not Available	Final flight test rept. 14 Dec 62-26 June 63,
AD0447937	DYNA SOAR STEP-I. BOOSTER PROPULSION SYSTEM,	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[MacDonald,J. A.]	1	[DS27 61 rev. A]	Not Available	Not Available	Not Available
AD0347772	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM	4/14/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R1179PR3]	Not Available	Not Available	Quarterly rept. no. 1, 1 Feb-31 Mar 61.
AD0400934	FLAMMABILITY CHARACTERISTICS OF HIGH TEMPERATURE HYDROCARBON FUELS	9/1/1961	U	[C - 02]	BUREAU OF MINES PITTSBURGH PA	[Kuchta, Joseph M.,Bartkowiak , Alphonse,Zab etakis, Michael G.]	24	Not Available	[BUM]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; SEP 1961. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348862	X-20 LANDING PHASE LOAD CONDITIONS - NOTES AND DATA (INCOMPLETE)	1/9/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	[Eckblad, David M.]	443	[D2-81143]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 JAN 1964. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0297661	FORMABILITY TESTS ON MO - 0.5TI	3/8/1961	U	[D - 16]	BOEING CO SEATTLE WA	[MARR, F. G.]	21	[T-2-2404- S6,IDEP- 502.30.00.80- C6-06]	[502.30.00.80- C6-06,IDEP]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 08 MAR 1961. Other requests shall be referred to Interagency DATA Exchange Program, Washington, DC.	Not Available
AD0353198	STRUCTURAL INTEGRITY DEVELOPMENT AND TEST PROGRAM - TECHNICAL DATA REPORT - STRUCTURES TECHNOLOGY	2/16/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	487	[D2-6783-2-4]	[ASC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 FEB 1962. Other requests shall be referred to Air Force Aeronautics Systems Command, Wright- Patterson, AFB, OH 45433. Document partially illegible.	Not Available
AD0352466	SUPPORT AND SERVICES AGREEMENT FOR THE DYNA-SOAR AIR LAUNCH PROGRAM	5/1/1962	U	[E - 04]	BOEING CO SEATTLE WA	[West, R. E.]	37	[DN-D2-80161]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 01 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441898	DEVELOPMENT ENDURANCE TEST GLYCOL PUMP AND ACCUMULATOR 680430 USED ON GLYCOL DUAL PUMP UNIT 178310 BOEING DYNA-SOAR PART 10- 20917-7,	1/7/1964	U	[C - 02,23]	GARRETT CORP LOS ANGELES CALIF	[Fisher,R.,Dur ham,R. E.]	5	[DS247]	Not Available	Release or announcement to foreign governments ortheir nationals is not authorized.	Not Available
AD0340750	STAGING, INCLUDING FIRE-IN-THE- HOLE DESIGN TRADE STUDY	9/12/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Stoiko, M.]	134	[ER-11339]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 SEP 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347839	TECHNICAL DATA FOR MILITARY SUBSYSTEM TEST TEAM. SOURCE SELECTION EVALUATION	4/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	[Chrisman,D.]	34	[MSF TN D9 59]	Not Available	Not Available	Not Available
AD0432839	DEVELOPMENT TEST PROCEDURES X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM. VOLUME 2. SURFACE EQUIPMENT.	3/10/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR 64 408 31 2 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB401477	Short-Term Aerospace Research and Development Program (STAR- DP) Task Order 0002: Academic and Industry Short-Term Aerospace Research and Development	12/1/2012	U	[C - 02,X - 57]	UNIVERSAL TECHNOLOGY CORP DAYTON OH	[Rucker, Roger]	598	[AFRL-RQ-WP- TR-2014-0187]	[TR-2014- 0187,AFRL-RQ WP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; DEC 2012. Other requests shall be referred to Air Force Research Laboratory, ATTN: AFRL/RQOP, Wright-Patterson AFB, OH 45433-7541. This document contains export-controlled technical data.	Final rept. 7 Apr 2011-30 Sep 2012
AD0413282	GROUND SUPPORT EQUIPMENT RECOMMENDATION DATA	2/28/1961	U	[E - 04]	BOEING CO SEATTLE WA	Not Available	253	[D2-7784-VOL- 2]	[ASD]	Distribution authorized to DoD only; Administrative/Operational Use; 28 FEB 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0430408	INDICATOR-THERMAL MONITOR	9/5/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	25	[10-20927,D2- 8200]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 05 SEP 1981. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, washington, DC 20330.	Not Available
AD0347843	DYNA-SOAR, Program Planning Report, Volume 1	2/28/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	521	[ER10360-8- VOL-1]	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 FEB 1959. Other requests shall be referred to Wright Air Development Division, Attn: WWZRA, Wright- Patterson AFB, OH 45433.	Program planning rept. no. 8, 1 Feb-28 Feb 1959

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB314225	Notices of Changes in: Document Classification, Distribution and Availability, October-December 2005	12/31/2005	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.]	385	[DTIC-OQ-TR- 2006-01]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 DEC 2005. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept., 1 Oct- 31 Dec 2005
AD0329730	INVESTIGATION OF THE FLIGHT CHARACTERISTICS OF A 1/5-SCALE MODEL OF A DYNA-SOAR GLIDER CONFIGURATION AT LOW SUBSONIC SPEEDS	6/1/1962	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON D C	[SHANKS,ROB ERT E.,WARE,GEO RGE M.]	1	[TM X 683]	Not Available	Not Available	Not Available
AD0433933	ADDENDUM TO DESIGN ANALYSIS REPORT DYNA-SOAR APU THERMODYNAMIC SYSTEM.	11/25/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	13	[24DER63 add]	Not Available	Not Available	Not Available
AD0416194	ENGINEER DESIGN TEST OF DYNA- SOAR ROCKET CATAPULT (LABORATORY VIBRATION OF IGNITERS, INITIATORS AND CATAPULT),	9/1/1963	U	[E - 04]	ARMY TEST AND EVALUATION COMMAND ABERDEEN PROVING GROUND MD	[Jervis,Robert H.]	37	[APG-DPS 1022]	[DPS 1022]	Notice: Only military offices may request from DDC. Others request approval of Army Munitions Command, Frankford Arsenal, Pheladel phia, Pa. No automatic release to foreign nationals.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347055	FLIGHT DATA SYSTEM: AIR DATA FEASIBILITY	10/1/1963	U	[C - 02]	LITTON SYSTEMS INC WOODLAND HILLS CALIF	[Schneider,A. J. R.,Fukuzawa,J. ]	130	[SMFD2 3]	Not Available	Not Available	Not Available
AD0400830	PROGRAM 624A SSLS FACILITIES CONSTRUCTION SURVEILLANCE PLAN. ATLANTIC MISSILE RANGE	1/1/1963	U	[C - 02]	MARTIN CO DENVER CO	Not Available	36	[SSD-CR-63-15]	[CR-63- 15,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to Air Force Systems Command Space Systems Division, Los Angeles, CA 90009-2960.	Not Available
AD0252905	FUEL ENERGY MANAGEMENT	1/1/1961	U	[C - 02,23]	MINNESOTA UNIV ROSEMOUNT ROSEMOUNT AERONAUTICAL LABS	[DOMICH, E. G.]	95	Not Available	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Wright Air Development Division,Wright Field, OH 45433. Document partially illegible.	Not Available
AD0324777	AERODYNAMIC CHARACTERISTICS OF THE DYNA-SOAR GLIDE VEHICLE (BAC NO. 2005) AT MACH NUMBERS 4 AND 5.6	8/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[ANDERSON,A .,DONALDSON ,J.C.,BELL,D.R.]	1	[TN61 91]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB191371	Assessment of Flutter Model Testing Relating to the National Aero-Space Plane	7/1/1987	U	[C - 02,X - 57]	DYNAMIC ENGINEERING INC NEWPORT NEWS VA	[Reed, III, Wilmer H.,Hanson, Perry W.,Alford, Jr, W. J.]	96	[NASP-CR- 1002]	[CR- 1002,NASP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; JUL 1987. Other requests shall be referred to National Aerospace Plane Joint Program Office, Wright-Patterson AFB, OH 45433. This document contains export-controlled technical data.	Technical rept.
AD0351021	VIBRATION AND FLUTTER ANALYSIS REPORT - AIR VEHICLE	1/17/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[Lewin,Lawren ce,Musgrove, M. D.,Aaron,Nor man E.]	77	[D2 8123 2rev.]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
ADB309853	Notices of Changes in: Document Classification, Distribution and Availability, April-June 2005	6/1/2005	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.]	313	[DTIC-OQ-TR- 2005/04]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 JUN 2005. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Apr- 30 Jun 2005
AD0311716	COMPARATIVE STUDY. INTERMEDIATE L/D GLIDER CONFIGURATION - DYNA SOAR STEP 1. PHASE ALPHA	3/17/1960	U	[E - 04,23]	BOEING CO SEATTLE WA	[Butler, H. F.]	662	[DN-D2-5560-4- VOL-2]	USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 17 MAR 1960. Other requests shall be referred to Research and Technology Div., Attn: (SENX-A), Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0325083	ENVIRONMENTAL CONTROL SUBSYSTEM PRELIMINARY DESIGN ANALYSIS	12/1/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[SLACK, R. L.]	777	[D2-8125]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0353201	DYNA-SOAR PROGRAM PLAN (STEP I). VOLUME I. SUMMARY	9/30/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	181	[D2-5697]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 SEP 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
ADB232674	Human Factors Analysis and Recommendations for Project Mercury,	8/27/1959	U	[C - 12]	MINNEAPOLIS- HONEYWELL REGULATOR CO MN	[Lindquist, O. H.]	260	[2315-TR2]	[XD]	Distribution: DTIC users only.	Not Available
AD0461048	X-20 A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM.	3/1/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179-SR- 2BRev. C]	Not Available	Not Available	Reliability plan.
AD0347735	DYNA-SOAR INERTIAL GUIDANCE SUBSYSTEM ACCEPTANCE TEST	7/18/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	123	[D1179R ED21056]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
AD0448891	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	10/15/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR62 408 4 4 3 rev.]	Not Available	Not Available	Not Available
AD0349557	ELECTROSTATIC GYRO EVALUATION PROGRAM SYSTEM TECHNIQUE STUDIES	2/15/1964	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	[McCormick, Robert]	303	[AFAL-TDR-64- 33]	[TDR-64- 33,AFAL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 FEB 1964. Other requests shall be referred to Air Force Avionics Lab., Research and Technology Div., AFSC, Wright-Patterson AFB, OH 45433.	Final rept. Jan 1962-Jan 1963
AD0432914	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT STATUS REPORT.	7/12/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	90	[DSR 9]	Not Available	Not Available	Not Available
AD0433825	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT	3/10/1963	U	[C - 02,23]	SUNDSTRAND AVIATION- DENVER CO	Not Available	187	[DSR-17]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 MAR 1963. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Monthly development status rept. 1- 28 Feb 1963
AD0348216	DYNA SOAR STEP-I. BOOSTER SYSTEM TEST PROGRAM	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Schlechter,R.]	1	[ER11353]	Not Available	Not Available	Not Available
AD0384092	PROPOSAL FOR FEASIBILITY STUDY OF AIR-BREATHING BOOSTER SYSTEM.	5/2/1958	U	[C - 12]	NORTHROP AIRCRAFT INC HAWTHORNE CALIF	Not Available	25	[NAI-58-310]	Not Available	Not Available	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	--	------------	---	----------	--	--	-----	---	-------------------------------	---	--
AD0431040	DATA REDUCTION PLAN FOR PRIMARY GUIDANCE SUBSYSTEM FLIGHT TEST PROGRAM.	10/17/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	24	[1179SR20]	Not Available	Not Available	Not Available
AD0311859	DYNA SOAR STEP 1.	11/18/1960	U	[C - 02]	BOEING CO SEATTLE WASH	Not Available	24	[DN D2 7326 3]	Not Available	Not Available	Program progress rept.
AD0408977	SYNTHESIS OF POLY- HETEROCYCLICS	3/1/1963	U	[C - 02]	KOPPERS CO INC PITTSBURGH PA	[Brumfield, Philip E.,DiGiulio, Adolph V.,Hergenroth er, Paul,Lake, Robert D.,Rudner, Bernard,Temi n, A]Samuel C.]	114	[ASD-TDR-63- 249]	[TDR-63- 249,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Aeronautical Systes Div., AFSC, Wright-Patterson AFB, OH 45433.	Final rept. 1 Feb 1962-31 Jan 1963
AD0471626	EXPLOSIVE FORMING OF HEAVY GAUGE HEMISPHERES	2/26/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Lindskog, R.]	29	[MDR-2- 27907,IDEP- 347.70.00.00- C6-29]	[347.70.00.00- C6-29,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 FEB 1963. Other requests shall be referred to Interagency Data Exchange Program, Washing, DC.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311863	DYNA SOAR STEP I	1/19/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	429	[DN-D2-7326- 5]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 JAN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Program progress rept. Oct-Dec 1960
AD0437831	X-20 (DYNA-SOAR). COMMUNICATIONS AND TRACKING SUBSYSTEM. VOLUME 2. AIRBORNE EQUIPMENT.	3/31/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 34 2 1]	Not Available	Not Available	Development engineering rept.
AD0805850	HEATING IN REGIONS OF INTERFERING FLOW FIELDS PART : LEADING EDGE SHOCK IMPINGEMENT	1/1/1967	U	[C - 02,X - 57]	BOEING AEROSPACE CO SEATTLE WA	[Gulbran, C. E.,Redeker, E.,Miller, D. S.,Strack, S. L.]	70	[AFFDL-TR-65- 49-PT-2]	[TR-65-49-PT- 2,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; JAN 1967. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright- Patterson AFB, OH 45433. This document contains export-controlled technical data.	Technical rept. 1 Jan 1964-31 Jul 1966
ADB312621	Notices of Changes in: Document Classification, Distribution and Availability, July-September 2005	9/1/2005	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence,Me dley, Rosa L.]	328	[DTIC-OQ-TR- 2005-06]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 SEP 2005. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly rept. 1 Jul-30 Sep 2005

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0245206	THE EFFECT OF AN ALTERNATING ELECTRIC FIELD ON ELECTRON FLOW IN AN INHOMOGENEOUS PLASMA	8/1/1960	U	[C - 02]	BROWN UNIV PROVIDENCE RI	[Wetzel, Lewis]	48	[AFCRL-TN-60- 994]	[TN-60- 994,AFCRL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Air Force Cambridge Research Laboratories, Hanscom AFB, MA.	Not Available
AD0331730	DESCRIPTION AND POTENTIAL APPLICATIONS OF THE PACE INERTIAL GUIDANCE SYSTEM	7/1/1962	U	[C - 02]	MASSACHUSETT S INST OF TECH CAMBRIDGE INSTRUMENTAT ION LAB	[HURSH,JOHN W.]	1	[E 1202]	Not Available	Not Available	Not Available
AD0366655	STUDY OF PERFORMANCE EFFICIENCY IN ENTRY DESIGN. VOLUME 1. ANALYSIS AND EXPERIMENTAL DATA	10/1/1965	U	[B - 03]	LOCKHEED- CALIFORNIA CO BURBANK	[Marcy, William L.]	303	[LAC/599956,L R-18622,AFFDL TR-65-64-VOL- 1]	[TR-65-64-VOL 1,AFFDL]	Distribution: USGO: others to Air Force Flight Dynamics Lab., Attn: FDMG.Wright-Patterson AFB, OH 45433.	Final technical rept. Jun 63- Feb 65
AD0337729	A STUDY OF AEROSPACE GROUND EQUIPMENT REQUIRE MENTS FOR LARGE SOLID PROPELLANT ROCKET MOTORS. VOLUME 2. ABSTRACTS OF PERTINENT DOCUMENTS	6/1/1963	U	[C - 02,23]	AMERICAN MACHINE AND FOUNDRY CO STAMFORD CT	[Rosenbaum, W.,Abramowit z, R.]	56	[RTD-TDR-63- 1025]	[TDR-63- 1025,RTD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1963. Other requests shall be referred to Research and Technology Div., Bolling AFB, Washington, DC. Document partially illegible.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0339985	A WIND TUNNEL INVESTIGATION OF MODIFICATIONS DE SIGNED TO IMPROVE THE LANDING CHARACTERISTICS OF THE X-20	8/1/1963	U	[C - 02]	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH	[Fredricks, Barron,Pearso n, Benjamin J.]	90	[GAE/AE/63- 10]	[AFIT]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Air Force Institute of Technology, Wright-Patterson AFB, OH 45433.	Not Available
AD0337196	PROGRAM 624A STANDARDIZED SPACE LAUNCH SYSTEM. PHASE 1. TECHNICAL STUDIES. VOLUME 3. SOLID MOTORS	3/1/1962	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	Not Available	86	[DCAS-TDR-62- 95-VOL-3]	[TDR-62-95- VOL-3,DCAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to Air Force Deputy Commander Aerospace Systems, Los Angeles AFB, CA.	Rept. for Nov 1961-Apr 1962
AD0348112	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	4/20/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR63 408 2 2 5]	Not Available	Not Available	Quarterly summary progress rept. no. 5, 1 Jan31 Mar 63.
AD0432201	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/2/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 27 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0367140	RADAR TECHNIQUES FOR AN AEROSPACE VEHICLE	11/1/1965	U	[C - 02,23,X - 57]	MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND TECHNOLOGY	[Porcello, Leonard J.,Brown, W. M.,Harger, R. O.,Leith, E. N.,Kozma, A.,Ristow, H. E.,Liskow, C. L.,Larson, R. W.,Kuipers, J.]	270	[4563-107- F,AFAL-TR-65- 236]	[TR-65- 236,AFAL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 10 JUL 2006. Other requests shall be referred to Air Force Research Laboratory, Attn: SNRR, Wright- Patterson AFB, OH 45433. Document partially illegible. This document contains export- controlled technical data.	Final rept. 1 Jun 1961-31 Dec 1964
AD0387612	WATER BASED LAUNCHING OF (LARGE) MISSILES	1/27/1961	U	[C - 02,23,X - 57]	BOEING CO SEATTLE WA	[Eckle, J. J.]	152	[D2-6299]	[SAMSO]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1961. Other requests shall be referred to Commander, Space and Missile Systems Organization (SMSDI- STINFO), Los Angeles Air Force Station, CA 90045., Availability: Document partially illegible., This document contains export- controlled technical data.	Not Available
AD0347774	X-20 A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM, THREE AXIS ERROR - DETAILED SYSTEM ANALYSIS INERTIAL SYSTEM PERFORMANCE STEP II- A (ONCE AROUND) FLIGHT	5/15/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	17	[1179SR7E rev. 2]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432953	PROPERTIES OF COLUMBIUM- TITANIUM-ZIRCONIUM ALLOYS	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Stacy, J. T.]	50	[D2-80274]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0433864	ACCESSORY POWER UNIT FOR X- 20(DYNA-SOAR).	5/10/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER PACOIMA CALIF	Not Available	180	[DSR19]	Not Available	Not Available	Monthly status rept. 1- 30 Apr 63.
ADB247631	Airframe Structural Technology Required for Hypervelocity Vehicles,	12/1/1985	U	[B - 03]	AIR FORCE WRIGHT AERONAUTICAL LABS WRIGHT- PATTERSON AFB OH	[Kearney, Vincent E.,Engle, Robert M., Jr.,Mueller, Richard N.,Gordon, Robert W.]	69	[AFWAL-TM-85- FIBT]	[TM-85- FIBT,AFWAL]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; 3 Jan 86. Other requests shall be referred to AFWAL/FIBTA, Wright- Patterson AFB, OH 45433-6553.	Not Available
AD0298753	RESEARCH ON PHOSPHORUS- CONTAINING AND OTHER INORGANIC AND SEMI-ORGANIC POLYMERS	11/1/1962	U	[C - 02,23]	MONSANTO RESEARCH CORP EVERETT MA	[JOHNS, IRAL B.,MATTHEWS , CLIFFORD N.,NIELSEN, MORRIS L.]	215	[WADD-TR-61- 79-PT-3]	[TR-61-79-PT- 3,WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Nov 1962. Other requests shall be referred to Wright Air Development Division, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Rept. for 31 Dec 1961-15 Oct 1962

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB337974	Notices of Changes in: Document Classification, Distribution and Availability, January-March 2008	3/1/2008	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence]	384	[DTIC-OQ-TR- 2008/07]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 MAR 2008. Other requests shall be referred to Defense Technical Information Center, Attn: DTIC-OQ, 8725 John J. Kingman Rd., Suite 0944, Ft. Belvoir, VA 22060-6218.	Quarterly 1 Jan-31 Mar 2008
AD0880608	Prognosis of Materials-Research Trends	12/31/1971	U	[C - 02,23]	BATTELLE MEMORIAL INST COLUMBUS OH COLUMBUS LABS	[Schwartz, Charles M.,Dayton, R. W.,Hahn, G. T.,Jaffee, R. I.,Jones, W. H.]	162	Not Available	[DARPA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1970. Other requests shall be referred to Defense Advanced Research Projects Agency, 1400 Wilson Blvd., Arlington, VA 22209-2308. Document partially illegible.	Final rept. 6 Jun 1968-5 Jul 1970
ADB188708	An Interplanetary Exploratory Vehicle.	1/1/1960	U	[C - 02]	BOEING AIRPLANE GROUP SEATTLE WA	[Beall, Wellwood E.]	28	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0352400	CREW STATION DEVELOPMENT PHASE 1 SIMULATION PROGRAM TECHNICAL DATA	2/23/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Cancler, Leonard]	400	[DN-D2-80415- VOL.2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 23 FEB 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0342932	TRANSONIC LOCAL AND INTEGRATED BOOSTER BUFFET LOADS ON A 6.67% MODEL OF THE 624A VEHICLE WITH X-20 AND BULBOUS PAYLOADS. VOLUME 2- PRESSURE TEST	2/20/1963	U	[C - 02,23]	MARTIN CO BALTIMORE MD	[Stouffer, C.G.,Rowe, W.H.,Case, W.]	577	[ER-13024,SSD- CR-63-163]	[CR-63- 163,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 FEB 1963. Other requests shall be referred to Air Force Systems Command, Space Systems Divsion, Los Angeles AFB, CA. Document partially illegible.	Rept. for 4-20 Feb 1963
AD0314993	Application of Hydrogen-oxygen Secondary Power and Cooling Systems to Dyna Soar Vehicles.	4/1/1959	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	26	[D7 2328]	Not Available	Not Available	Not Available
ADB191230	Effect of Temperature, Pressure and Mass-Flow of the Oxidation Rate of Molybdenum	12/31/1960	U	[C - 02,23]	MARTIN CO DENVER CO	[Wilks, C. R.]	52	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 DEC 1959. Other requests shall be referred to Department of Defense, attn: Public Affairs Office, Washington DC 30102. Document partially illegible.	Not Available
AD0490012	APPROVED STANDARD ELECTRONIC PARTS	10/19/1960	U	[C - 02]	BOEING CO SEATTLE WA	[McDonald, W. A.]	11	[DN-D2-7486]	[ASD/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1960. Other requests shall be referred to Aeronautical Systems Division, Attn: ASZRA, Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433935	CONVERSION AND STORAGE EQUIPMENT-TEST INSTRUMENTATION SUBSYSTEM, GLIDER	8/30/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	151	[10-81003]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 AUG 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0413208	EVALUATION OF N2 SHUTOFF VALVES FOR COMPLIANCE WITH FUNCTIONAL REQUIREMENTS.	12/12/1962	U	[C - 02]	BELL AEROSYSTEMS CO BUFFALO N Y	Not Available	4	[82332 11 1,IDEP- 925.50.85.94- C4-02]	[925.50.85.94- C4-02]	Not Available	Not Available
AD0347670	DYNA-SOAR GEOPHYSICS REPORT	3/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	120	[ER-10365]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1959. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347057	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. ENVIRONMENTAL TEST.	11/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Dubendorff,H . H.]	25	[1179SR34B]	Not Available	Not Available	Interim pressure test rept.,
ADB242749	Lessons Learned in the Structures, Dynamics, and Materials Area During the X-20 (DYNA-SOAR) Program	9/1/1986	U	[B - 03]	ANAMET LABS INC SAN CARLOS CA	[Baird, Richard B.]	109	[ASIAC-685.1A]	[AFWAL]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; Sep 86. Other requests shall be referred to AFWAL/FIB, Wright-Patterson AFB, OH 45433.	Interim rept. Feb-Jun 85

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0351019	A STUDY OF SOME AERODYNAMIC CHARACTERISTICS OF THE DYNA- SOAR GLIDER AT M = 12.89	4/9/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	429	[D2-80877]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 09 APR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0507987	Design and Analysis of the FDL-5 Reusable Spacecraft. Volume 2. Technical Report	12/1/1969	U	[E - 04]	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Lloyd, J. T.,Alexander, G. L.,Decamp, R. W.,Draper, A. C.,Cosenza, C. J.]	494	[AFFDL-TR-69- 94-VOL-2]	[TR-69-94-VOL 2,AFFDL]	Distribution authorized to DoD only; Administrative/Operational Use; DEC 1969. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Attn: WRDC/IST (FDMS), Wright-Patterson AFB, OH 45433.	Final technical rept. Jul 1967- Dec 1969
AD0384126	FLIGHT TEST PROGRAM PLAN PROJECT DYNA-SOAR SYSTEM 464L	3/1/1958	U	[C - 02]	NORTHROP AIRCRAFT INC HAWTHORNE CA	[Krause, N. A.,Adams, J. C.,McLaughlin, W. D.,Sackett, L. C.]	60	[NAI-58-208]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1958. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright-Patterson AFB, OH 45433.	Not Available
AD0351023	X-20 ENGINEERING SUMMARY REPORT FLIGHT TECHNOLOGY	3/13/1964	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	46	[D2-81263]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 MAR 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441903	TECHNICAL DEVELOPMENT SPECIFICATION FOR LEAD NETWORK AMPLIFIER.	4/5/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	9	[TDS2546 03 12]	Not Available	Release or announcement to foreign governments or their nationals is not authorized.	Not Available
AD0350685	DYNA SOAR PITCH AXIS; PRELIMINARY PHUGOID AND THRUST VECTOR CONTROL ANALYSES	3/2/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	[St. John,R. R.]	27	[CEL DS 160]	Not Available	Release or announcement to foreign governments ortheir nationals is not authorized.	Not Available
AD0347737	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM. SECONDARY ATTITUDE REFERENCE. THREE AXIS ERROR DETAILED SYSTEMS ANALYSIS	12/13/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179SR7G add. 1 rev. 1]	Not Available	Not Available	Not Available
AD0459451	BIBLIOGRAPHY OF AVIATION MEDICAL ACCELERATION LABORATORY PUBLICATIONS 1950 - 1960	9/27/1962	U	[C - 02]	NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA AVIATION MEDICAL ACCELERATION LAB	[Sinnamon, Edwin G.]	176	[NADC-MA- 6211]	[NADC-ML]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 SEP 1962. Other requests shall be referred to U.S. Naval Air Development Center, Johnsville, PA.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431217	QUALIFICATION TEST REQUIREMENTS MIL-FLO TUBE FITTINGS, REACTION CONTROL SYSTEM	12/13/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Sherwood, C. M.]	17	[D2-80792]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 13 DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
ADB265532	Report of the Subpanel on Coatings, Refractory Metals Sheet Rolling Panel, Materials Advisory Board	6/1/1962	U	[B - 03]	MATERIALS ADVISORY BOARD (NAS- NRC) WASHINGTON DC	Not Available	67	[MAB-181-M]	[DARPA,ODDR E]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; JUN 1962. Other requests shall be referred to Defense Advanced Research Projects agency, 675 North Randolph Street, Arlington, VA 22203-1995.	Not Available
AD0347920	DYNA SOAR STEP I. BOOSTER AIRBORNE INSTRUMENTATION SYSTEM SPECIFICATION	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Akre,R. C.]	20	[MB567]	Not Available	Not Available	Not Available
AD0432920	INDICATOR - VELOCITY	1/1/1943	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	28	[10-20929-REV- D]	USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1943. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431221	DYNA-SOAR DATA REDUCTION PLAN	4/5/1962	U	[D - 16]	BOEING CO SEATTLE WA	[Stadler, W. J.]	117	[D2-80153]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 05 APR 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347311	A DIGITAL COMPUTER ANALYSIS OF THE DYNA-SOAR VEHICLE CONTROL SYSTEM DURING STAGE ZERO FLIGHT	6/1/1963	U	[C - 02]	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS	[Studabaker, William Anthony]	89	[AFIT-GGC EE63 13]	[GGC EE63 13]	Not Available	Not Available
AD0443689	ELEVON STRENGTH CHECK NOTES - MODEL X-20,	7/21/1964	U	[C - 02]	BOEING CO SEATTLE WASH	[McGinnis,J. C.]	1	[D2 81294]	Not Available	Not Available	Not Available
AD0337409	A HIGH SPEED FORCE AND HINGE MOMENT TEST ON THE X-20 GLIDER	5/10/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Basone, Allen]	859	[D2-80851]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 MAY 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Data rept

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0403640	THE PREPARATION OF ORGANOMETALLIC DERIVATIVES OF INORGANIC 'BENZENOID' COMPOUNDS	1/1/1963	U	[C - 02,23]	MASSACHUSETT S INST OF TECH CAMBRIDGE	[Seyferth, D.,Takamizaw a, M.,Yamazaki, H.,Sato, Y.,Treiber, A.]	29	[ASD-TR-61-1- PT-3]	[TR-61-1-PT- 3,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1963. Other requests shall be referred to Aeronautical Systems Division, Attn: AFSC, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Not Available
AD0505094	Comparative Propulsion Systems Concepts Study. Volume 6. Aerodynamics and System Tradeoffs	10/22/1969	U	[C - 02,X - 57]	MCDONNELL AIRCRAFT CO ST LOUIS MO	[Wall, Douglas E.,Scheller, Donald M.,Taylor, Dwight D.]	214	[AFAPL-TR-69- 91-VOL-6]	[TR-69-91-VOL 6,AFAPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical technology; 28 Oct 2002. Other requests shall be referred to Air Force Research Lab., Attn: PRA, Wright- Patterson AFB, OH 45433., This document contains export-controlled technical data.	Technical rept. 24 Jan-8 Sep 1969
AD0312955	FORCE TESTS ON A DYNA-SOAR BOOSTER MODEL AT SUPERSONIC SPEEDS	10/1/1959	U	[C - 02,X - 57]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[DONALDSON, J. C.,BELL, D. R.]	27	[AEDC-TN-59- 118]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; 30 JUN 1969. Other requests shall be referred to Aeronautical Systems Division, Wright- Patterson AFB, OH 45433. This document contains export-controlled technical data.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0355172	The U. S. Public and the Problem of Defense	8/3/1964	U	[C - 02]	GENERAL ELECTRIC CO SANTA BARBARA CA TECHNICAL MILITARY PLANNING OPERATION	[Miller, Martin B.,McMahan, Jr, Richard H.]	100	[RM-64TMP- 20,SSD-TDR-64- 198]	[TDR-64- 198,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 03 AUG 1964. Other requests shall be referred to Air Force Systems Command, Space Systems Div., Los Angeles, CA.	Final rept.
AD0345883	MILITARY MANNED SPACECRAFT STUDY	11/10/1961	U	[C - 02]	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Not Available	159	[TR-61-13,UBG- 61-225]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 NOV 1961. Other requests shall be referred to Department of Defense (DoD), Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0359349	DYNA SOAR STEP-I. BOOSTER RANGE SAFETY DESIGN STUDY	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Jackson,L.]	30	[DS-28-61-Rev. A]	Not Available	Not Available	Not Available
AD0461376	DYNA SOAR STEP-I. ACTIVATION PLAN FOR LAUNCH COMPLEX 19 AND THE BOOSTER SUPPORT AREA, VOLUME I,	12/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Eney,L. A.]	42	[ER-11923-1]	Not Available	Not Available	Not Available
AD0324070	HEAT TRANSFER AND PRESSURE DISTRIBUTION TESTS ON A VERSION OF THE DYNA- SOAR GLIDER AT MACH 8	7/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[HIERS, R.S.,HILLSAME R, M.E.,MORRIS, S.D.]	63	[AEDC-TN-61- 70]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1961. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB350675	Notices of Changes in: Document Classification, Distribution, and Availability, April-June 2009	6/30/2009	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Downing, Lawrence]	379	[DTIC-OQ-TR- 2009/07]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; JUN 2009. Other requests shall be referred to Defense Technical Information Center, DTIC-OQ, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218.	Quarterly rept. for Apr- Jun 2009
AD0431539	NEW PROCESSES AND TECHNIQUES X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/9/1964	U	[C - 02]	RAYTHEON CO WALTHAM MA	Not Available	16	[CR64 408 32 1]	Not Available	Not Available	Not Available
AD0358800	BOOSTER PERFORMANCE DEVELOPMENT DATA DYNA SOAR STEP I AS OF 31 MAY 1961	5/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Seider,B. L.,Cairns,C. L.]	25	[TN-DS-66-61]	Not Available	Not Available	Technical note,
AD0322996	HEAT TRANSFER AND PRESSURE DISTRIBUTION TESTS ON A VERSION OF THE COMPLETE DYNA- SOAR VEHICLE AT MACH 8	5/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[HIERS, R. S.,HILLSAMER, M. E.,MORRIS, S. D.]	50	[AEDC-TN-61- 47]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1961. Other requests shall be referred to Arnold Engineer Development Center, ARDC, Arnold AFB, TN.	Not Available
AD0432633	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT TEST STATUS,	2/15/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	[Rand,T.]	74	[DSR4]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0452747	GEMINI LAUNCH VEHICLE. RELIABILITY ANALYSIS. PART 2. AGE SYSTEMS	12/1/1962	U	[C - 02]	MARTIN CO BALTIMORE MD ADVANCED LOGISTICS DEPT	[Nichols, G. H.,Coon, M.]	287	[LV-95A-II]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1962. Other requests shall be referred to Space Systems Division, Los Angeles, CA.	Not Available
AD0431901	DYNA SOAR STEP-I BOOSTER INSTRUMENTATION SYSTEM CONFIGURATION DESIGN STUDY,	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Manner,C. E.]	1	[DS25 61 rev. A]	Not Available	Not Available	Not Available
ADB330310	Engineering Tool Improvement Program-Alpha (ETIP-A). Task Order 1: Architecture Use of System Integration (AUSI) Integrated Propulsion Analysis Tool (IPAT)	3/1/2007	U	[B - 03,X - 57]	ADVATECH PACIFIC INC REDLANDS CA	[Mysko, Stephen,Dorm an, Paul,Yi, Jung,Jenkins, Tim,Bishel, Tyler,Koziara, Eric,Donovan, Ian,Aumann, Christopher,W hittinghill, George R.]	100	[API-07- 020,AFRL-PR- ED-TR-2007- 0015]	[TR-2007- 0015,AFRL-PR- ED]	Distribution authorized to U.S. Gov't. agencies only; Critical Technology; Proprietary Information; MAR 2007. Other requests shall be referred to Air Force Research Laboratory, ATTN: PRS, 5 Pollux Dr., Edwards AFB, CA 93524- 7048. This document contains export-controlled technical data.	Special report

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0319439	A Review of Project DEFENDER for the Director of Defense Research and Engineering, 25-29 JULY 1960. Volume 1	7/1/1960	U	[C - 02,23]	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA RESEARCH AND ENGINEERING SUPPORT DIV	Not Available	466	[IDA-RESG-TR- 60-4-VOL-1]	[ARPA,DDR&E ]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; JUL 1960. Other requests shall be referred to Defense Advanced Research Projects Agency, 675 North Randolph Street, Arlington, VA 22203- 2114. Document partially illegible.	Not Available
AD0357849	DYNA-SOAR STEP I CANTILEVERED FIN FLUTTER REPORT	12/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Young,J. P.]	44	[TN-DS-112- 61]	Not Available	Not Available	Technical note,
AD0356329	PROGRAM AND FACILITIES. DYNA SOAR, STEP-I	10/10/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	1	[ER11350 2]	Not Available	Not Available	Quarterly progress rept., Jul-Sep 61.
AD0347776	DYNA-SOAR (STEP I) PRIMARY GUIDANCE SUBSYSTEM ADDENDUM 1 GUIDANCE MALFUNCTION DETECTION ANALYSIS	8/14/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R1179 SR7B Add 1]	Not Available	Not Available	Not Available
AD1004957	A History of Single-Stage-to-Orbit Expendable Concepts	12/10/2015	U	[C - 02,X - 57]	Air Force Research Laboratory/RQR C Edwards AFB United States	[Paulson, Eric J.]	52	[AFRL-RQ-ED- TP-2015-435]	[AFRL-RQ-ED- TP-2015-435]	U.S. Government agencies and their contractors;Critical Technology;,01 Dec 2015.Other request shall be referred to AFRL/RQR , Edwards AFB,CA,93524- 7048,AFRL/RQR .This document contains export- controlled technical data.	Conference Paper

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0313507	COMPARISON OF DYNA-SOAR AND X-15 LONGITUDINAL DYNAMICS	6/1/1959	U	[C - 02]	WRIGHT AIR DEVELOPMENT CENTER WRIGHT FIELD OH	[CONNORS, ALONZO J.,EKERN, HAROLD O.]	16	[WADC-TN-59- 213]	[WADC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1969. Other requests shall be referred to Wright Air Development Center, Wright-Patterson AFB, OH 45433.	Technical note,
AD0348691	REACTION CONTROL SYSTEM - HYDROGEN PEROXIDE	3/26/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	138	[10-81135]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 MAR 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0331803	RE-EVALUATED HEAT TRANSFER DATA FROM B1 CONFIGURATION OF THE AEDC-B-BAC 013 TEST OF A DYNA SOAR NOSE	7/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[CORNELIUS,J AMES R.]	1	[TDR62 61,AFSWC- TDR62 61]	[TDR62 61]	Not Available	Not Available
ADB395322	Air Vehicle Integration and Technology Research (AVIATR) Delivery Order 0011: High Speed Stores Separation - Exploratory Development	7/1/2013	U	[D - 16,X - 57]	NORTHROP GRUMMAN CORP EL SEGUNDO CA AEROSPACE SYSTEMS	[Weiss, Joe,Bender, Anne,Chrisma n, Eric,Gadebusc h, Jason,Baird, Eric,Swanson, Jake]	495	[AFRL-RQ-WP- TR-2013-0129]	[TR-2013- 0129,AFRL-RQ- WP]	Distribution authorized to DoD and DoD contractors only; Critical Technology; JUL 2013. Other requests shall be referred to Air Force Research Laboratory, ATTN: AFRL/RQVI, Wright- Patterson AFB, OH 45433-7542. This document contains export-controlled technical data.	Final rept. 29 Jun 2010-30 Apr 2013

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB266052	Re-Entry Protective Systems. A Bibliography of Refractory Metals Protective Systems Research	8/6/1962	U	[B - 03]	AEROSPACE CORP EL SEGUNDO CA	[Leeds, D. H.]	165	[DCAS-TDR-62- 146,TDR- 169(3240- 31_TR-1]	[DCAS]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Aug 1962. Other requests shall be referred to Deputy Commander, Aerospace Systems, Air Force Systems Command, Inglewood, CA 90009	Not Available
AD0350222	DOCUMENTED FLOW FIELD RESULTS	8/1/1960	U	[C - 02]	GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE DIV	[FitzGibbon, S. A.]	11	[AD-M-5-02]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Air Force Public Affairs Office, Attn: SAF/PAS, Washington, DC 20330.	Not Available
ADB193663	Proposed Flight Test Program to Demonstrate Feasibility of Supercritical Oxygen Storage for Manned Space Vehicles	7/29/1960	U	[C - 02]	GARRETT CORP LOS ANGELES CA AIRESEARCH MFG DIV	[Shaffer, A.,Vigllante, A.,Richmond, B. J.]	126	[AE-1815-R]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 JUL 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST				CALIFORNIA CO	T.,Ehrlich, C.		3,AFFDL-TR-66-	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson	
	VEHICLES. VOLUME 3 - TECHNICAL				BURBANK	F.,Guard, F.		12-VOL-3]		AFB, OH 45433.	
	DISCUSSIONS					L.,Linneman,					
						Ε.					
						R.,Perlmutter,					
						J. I.]					
ADB393818	Materials for Integrated Foam Core	8/1/2013	U	[B - 03]	BETHPAGE	[Haslett,	74	[AFRL-RQ-WP-	[TR-2013-	Distribution authorized to U.S. Gov't. agencies	Final rept. 11
	Structure				TECHNOLOGIES	Robert,Rimer,		TR-2013-0197]	0197,AFRL-RQ	only; Proprietary Information; AUG 2013. Other	Aug 2008-31
					DIX HILLS NY	Melvyn,Brown			WP]	requests shall be referred to Air Force Research	Jul 2013
						,				Lab., Attn: AFRL/RQVV, Wright-Patterson AFB,	
						Richard,Eiden				ОН 45433-7542.	
						off,					
						Harvey,Lukacs					
						, Alawan dan Cab					
						Alexander,Sch					
						ultheiss,					
						momasj					
						-		-			
AD0338108	HEAT TRANSFER TEST ON AD588M-	6/21/1963	U	[C - 02,23]	BOEING CO	[Mueller,	371	[D2-80871-	[USAF]	Distribution authorized to U.S. Gov't. agencies	Not Available
	1, A .04 SCALE, X-20 DYNA-SOAR				SEATTLE WA	Werner W.J		V1,BHS1044-		and their contractors;	
	844-2050 CONFIGURATION, TO							VIJ		Administrative/Operational Use; 21 JUN 1963.	
										other requests shall be referred to Department	
										Washington DC 20220 Document partially	
	HEAT TRANSFER RATES ON THE										
	AND ADJACENT FLEVON SUBFACE										
	AT M 22.2										

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0331946	BSWT 135, PRESSURE, FORCE, AND TRAJECTORY TESTS ON THE HEATSHIELD FOR DYNA-SOAR MODEL AD-626M-1 CONFIGURATION NUMBER DS 844- 2050 (SPO 146)	8/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[DENERY,DALL AS G.]	1	[D2 80649]	Not Available	Not Available	Not Available
AD0326209	AN INVESTIGATION OF THE AERODYNAMIC CHARACTERISTICS OF THE DYNA-SOAR AIR VEHICLE INCORPORATING THE TITAN II BOOSTER	10/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[BELL, D. R.,DONALDSO N, J. C.]	37	[AEDC-TN-61- 139]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1961. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN.	Not Available
ADB251738	Notices of Changes in: Document Classification, Distribution and Availability	12/1/1999	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Kramer, Anna,Medley, Rosa L.,Rogers, Zena D.]	488	[DTIC/TR-99/5]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 DEC 1989. Other requests shall be referred to Defense Technical Information Center, 8725 John J. Kingman Road, Suite 0944, Fort Belvoir, VA 22060-6218.	Cumulative rept. 1 Jan-31 Dec 1999,
AD0430850	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. X-20A (DYNA-SOAR) PGS RADIO FREQUENCY INTERFERENCE (RFI). DETAILED TEST PLAN,	5/20/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	[Schmidt,A. P.,Goble,J. A.]	1	[1179SR22]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433937	X-20 (DYNA SOAR) NOSE CAP HYPERTHERMAL TEST APPARATUS, DESCRIPTIVE REPORT,	12/9/1963	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TEX	[Goodnight,F. H.]	26	[311 11]	Not Available	Not Available	Not Available
AD0410302	FACILITIES RELATING TO LONG- RANGE SCIENTIFIC AND TECHNICAL TRENDS OF INTEREST TO THE UNITED STATES AIR FORCE	1/1/1958	U	[C - 02]	NATIONAL ACADEMY OF SCIENCES- NATIONAL RESEARCH COUNCIL WASHINGTON DC	Not Available	22	Not Available	[ARDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1958. Other requests shall be referred to Commander, Air Research and Development Command, Andrews AFB, Washington, DC.	Not Available
ADB249705	Notices of Changes in Classification, Distribution, and Availability for November 1999	11/30/1999	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William B.,Leach, Yvette A.,Rogers, Zena D.]	39	[DTIC/TR- 99/16]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Jul 98. Other requests shall be referred to Defense Technical Information Center, Attn: OCQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	Monthly rept. 1-30 Nov 99
AD0433941	DYNA-SOAR HETS NOSE CONE STRUCTURAL DESIGN DATA AND MATERIALS ALLOWABLES TEST PLAN,	2/14/1964	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TEX	[Baylor,R. N.]	12	[AST EOR12863,AST 311 3 rev. B]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0402226	INORGANIC HETEROPOLYMERS	1/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[HAMMER, ROBERT N.,KINSINGER, JACK B.]	36	[ASD-TDR-62- 1094]	[TDR-62- 1094,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1963. Other requests shall be referred to Air Force Systems Command, ASD Div., Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Not Available
AD0353205	DYNA-SOAR GLIDER CHARACTERISTICS AND BOOSTER RESTRAINTS	10/20/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Baldwin, Floyd L.]	82	[D2-80374]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 OCT 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0441905	TECHNICAL DEVELOPMENT SPECIFICATION FOR COMPARATOR, ADAPTIVE NETWORK.	12/28/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	8	[TDS2546 03 21]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0345917	DATA REPORT, AEDC-C-BC-9, MACH 10 HEAT TRANSFER AND PRESSURE TEST OF THE AD-609M- 2, A 0.05 SCALE MODELE X-20 DYNA SOAR GLIDER	9/18/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Trussell, Donald R.]	487	[DOCUMENT NO. D2 80898,VOL. 1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 SEP 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. l.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0441730	DYNA-SOAR SYSTEM DRAWING LIST	9/14/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Sage, R. W.]	317	[D2-80735]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 SEP 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0314815	BOEING DYNA-SOAR FORCE, PRESSURE, AND HEAT TRANSFER TESTS IN THE HYPERVELOCITY HOTSHOT TUNNELS	2/1/1960	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[ROEPKE, R.G.,SHELTON, P.C.]	51	[TN60 28]	Not Available	Not Available	Not Available
AD0432918	DESIGN ANALYSIS REPORT DYNA- SOAR 876C CONTROL SYSTEM. VOLUME 3	12/13/1963	U	[C - 12,23]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	1	[31DER62 rev. C]	Not Available	Distribution: DDC users only. Availability: Microfilm only after original copies are exhausted.	Not Available
AD0347743	AN ELINT SYSTEM FOR DYNA SOAR	8/22/1960	U	[C - 02,23]	MELPAR FALLS CHURCH VA	Not Available	66	[T-P216]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Aug 1960. Other requests shall be referred to Department.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. l.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347922	DYNA-SOAR, STEP-I. SUPPORT TO SYSTEM CONTRACTOR STUDIES	9/15/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Allen, J.]	233	[ER-11336]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 SEP 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB185662	Red Lighting Versus White Lighting of Sonar Operator Consoles: Preliminary Discussion	10/25/1965	U	[C - 02]	NAVY UNDERWATER SOUND LAB NEW LONDON CT	[Howard, Edward F.]	13	[USL-TM-905- 51-65]	[NUSL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 OCT 1965. Other requests shall be referred to Navy Underwater Sound Laboratory, Fort Trumbull, New London, CT.	Technical memo.
AD0336576	ALTITUDE TEST OF THE DYNA SOAR ACCELERATION ROCKET MOTOR	6/1/1963	U	[C - 02]	ARO INC ARNOLD AFS TN	[Tuthill, Jr., C. M.,Palmer, W. T.]	45	[AEDC-TDR-63- 106]	[TDR-63- 106,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1963. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389- 2305.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0444212	X-20 (Dyna-Soar) Installation Criteria Launch Complex Area - CCMTA	7/31/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Lapatinskas, V. V.,Didrichsen, W. G.,Willmer, K. E.,Kangelis, P.,Rafferty, J. P.]	64	[DN-21-80040]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 31 Jul 1963. Other requests shall be referred to U.S. Air Force, STINFO, Washington, DC.	Not Available
AD0478051	SYSTEM TEST OF THERMAL MANAGEMENT SYSTEM FOR DYNA- SOAR (X-20).	12/1/1965	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Chase ,A. B.,Durham,R. E.]	111	[DS-274,AFFDL- TR-65-201]	[TR-65-201]	Distribution: No Foreign without approval of Research and Technology Div. (AFSC) Wright- Patterson AFB, Ohio. 45433. Attn: Environmental Control Branch, Vehicle Equipment Div. (FDFE).	Final technical rept. Aug 64- Aug 65,
AD0361388	Space Vehicle Systems Research, Planning and Engineering	3/1/1962	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Hardin, John H.]	54	[CSR- 930(9990)MPR <sup>.</sup> 9]	[DCAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to Air Force Deputy Commander Aerospace Systems, Los Angeles AFB, CA.	Monthly progress rept., 1-31 Mar 1962

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD1093591	Simulating a Hypersonic Intelligence Surveillance and Reconnaissance (ISR) Aircraft's Military Utility in an Anti-Access Area Denial (A2AD) Environment	3/26/2020	U	[D - 16,X - 57]	AIR FORCE INSTITUTE OF TECHNOLOGY WRIGHT- PATTERSON AFB OH WRIGHT- PATTERSON AFB United States	[Maloney,Jose ph B.]	83	[AFIT-ENS-MS- 20-M- 161,SDPE]	Not Available	Department of Defense and U.S. DoD contractors only;Critical Technology;,01 Mar 2020.Other request shall be referred to Air Force Institute of Technology,Wright-Patterson AFB,OH,45433-7765,Air Force Institute of Technology.This document contains export- controlled technical data.	Technical Report,01 Sep 2018,01 Mar 2020
ADB193093	U.S. Aeronautics and Space Activities, 1 January-31 December 1959	1/1/1959	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON DC	Not Available	141	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1959. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC.	Annual rept. no. 2
AD0347890	MISCELLANEOUS X-20 COATINGS AND FINISHES INVESTIGATIONS	12/27/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Wyckoff, L. G.]	154	[D2-81117]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347277	DYNA-SOAR PRIMARY GUIDANCE SUBSYSTEM	4/15/1962	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR2]	Not Available	Not Available	Quarterly progress rept., 1 Jan- 31 Mar 62.
AD0347635	DYNA-SOAR BASE RECIRCULATION TRANSONIC TEST RESULTS, 11.6% MODEL	11/1/1961	U	[F - 05]	MARTIN CO BALTIMORE MD	[Screen,E.,Kon diatick,S. W.]	114	[ER11918]	Not Available	Distribution controlled. All requests to: Hq USAF, Attn: PAO, Washington, DC.	Not Available
AD0347814	DYNA SOAR SIX MONTHS' EFFORT ANALYSIS.	10/10/1960	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R ED25095A]	Not Available	Not Available	Not Available
AD0431903	DYNA SOAR STEP-I. Bibliography of Research and Development Reports	4/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Allen, J. H.]	15	[ER-11349-2]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 24 Nov 99. Other requests shall be referred to DTIC- BRR, 8725 John J. Kingman Rd. Ste 0944, Ft. Belvior, VA 22060-6218	Not Available
AD0347281	X-20A DYNA-SOAR PRIMARY GUIDANCE SUBSYSTEM	10/20/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR8]	Not Available	Not Available	Quarterly progress rept., July- Sep 63.
AD0285088	INVESTIGATION OF A NET CREW SEAT CONCEPT FOR ADVANCED FLIGHT VEHICLES. PART 1. INVESTIGATION AND DESIGN	6/1/1962	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[Wood, Jr, PaulL W.]	171	[ASD-TR-61- 546-P-1]	[TR-61-546-P- 1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Flight Dynamics Laboratory, Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Technical documentary rept. Feb 1961-Aug 1961

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
ADB077671	Aerodynamics Lifting Reentry Technology Analysis Methods. Volume 1. Past Programs and Basic Theories	11/1/1982	U	[B - 03,X - 57]	LOCKHEED MISSILES AND SPACE CO INC HUNTSVILLE AL HUNTSVILLE ENGINEERING CENTER	[Lundy, T. E.,Pond, J. E.,Wojciechow ski, C. J.]	233	[LMSC-HREC- TR-D867625- 1,AFWAL-TR- 82-3082-VOL- 1]	[TR-82-3082- VOL- 1,AFWAL]	Distribution authorized to U.S. Gov't. agencies only; Test and Evaluation; SEP 1983. Other requests shall be referred to Flight Dynamics Lab., AFWAL/FIMG, Air Force Wright Aeronautical Labs., Wright-Patterson AFB, OH 45433. This document contains export- controlled technical data.	Final technical rept. May 1980-Oct 1982
AD0312853	DYNA-SOAR I TEST PROGRAM	6/16/1959	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CA	[RUSSELL, HAROLD,WES ESKY, JOHN]	22	[AFFTC-59-F- 86]	[AFFTC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1959. Other requests shall be referred to Air Force Flight Test Center, Edwards AFB, CA.	Not Available
ADB193343	Report of Proceedings, Invitational Meeting, Panel on Rolling, Cold Forming, and Cold Extrusion of the Materials Advisory Board Committee on the Development of Manufacturing Processes for Aircraft Materials (AMC) Held in Washington, DC on December 8- 10, 1959	5/31/1960	U	[C - 02]	MATERIALS ADVISORY BOARD (NAS- NRC) WASHINGTON DC	Not Available	504	[MAB-165-M]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAY 1960. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0348693	DYNA SOAR ACCELERATION ROCKET MOTOR	2/22/1963	U	[C - 02]	THIOKOL CHEMICAL CORP ELKTON MD	Not Available	1	[DS521A]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432782	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT DEVELOPMENT STATUS REPORT.	9/10/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	121	[DSR11]	Not Available	Not Available	Monthly status rept., 1· 31 Aug 62.
AD0432961	ELEVON AND RUDDER SERVO DEVELOPMENT TEST PROGRAM	12/27/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Martin, R. H.]	300	[T2-2628]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0447772	GROUND SUPPORT SYSTEM SPECIFICATION (TEST OPERATION PLAN), PART II. MAINTENANCE ANALYSIS SPECIFICATION (TEST OPERATION PLAN). VOLUME II. AGE REQUIREMENTS, DYNA SOAR STEP-I,	7/17/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Williams,S.]	1	[ER11345 vol. 2 pt. 2 rev.]	Not Available	Not Available	Not Available
ADB191839	National Aero-Space Plane (NASP) Airframe Technology. Option Five, Sealing Concepts.	1/1/1990	U	[C - 02,X - 57]	BOEING MILITARY AIRPLANE CO SEATTLE WA	[Dursch, Harry W.,Nedervelt, Paul D.,Newquist, Charles W.,Burns, Robert A.]	205	[NASP-CR- 1077]	[CR- 1077,NASP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; Jan 90. Other requests shall be referred to National Aero-Space Plane (NASP), Joint Program Office, Wright-Patterson AFB, OH 45433. This document contains export-controlled technical data.,	Final rept. Nov 86-Jul 89,

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0452645	PRELIMINARY SKIN PANEL FLUTTER TESTS, AD-375D2, -3, SPO NO. 57 AND 58	5/7/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Haynes, R. M.]	133	[D2,8148]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 MAY 1962. Other requests shall be referred to DEPART MENT OF THE AIR FORCE, ATTN: PUBLIC AFFAIRS OFFICE, WASHINGTON, DC 20330. NOFORN. Document partially illegible.	Not Available
AD0352404	DYNA-SOAR PROGRAM. SAFETY PLAN	5/23/1962	U	[E - 04]	BOEING CO SEATTLE WA	[Trettin, H. D.]	55	[DN-D2-5697- 18]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 22 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0255505	STUDY OF A SELF-ADAPTIVE CONTROL SYSTEM INCLUDING SIMULATION AND EFFECTS OF VARIATION OF THE SYSTEM DYNAMICS	3/1/1961	U	[C - 02]	AIR FORCE INSTITUTE OF TECHNOLOGY WRIGHT- PATTERSON AFB OH	[JOHANNES, ROBERT P.]	79	[GGC-61-9]	[AFIT]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1961. Other requests shall be referred to Air Force Institute of Technology, Wright-Patterson AFB, OH 45433.	Not Available
AD0434102	ACQUISITION AND TRACKING ANALYSIS FOR X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/20/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 28 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0471601	METHODS OF TRIMMING AND FINISHING D-36 COLUMBIUM ALLOY SHEET (PRELIMINARY STUDY)	8/28/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Olsen, George]	8	[MDR-2- 12817,IDEP- 347.70.00.00- C6-05]	[347.70.00.00- C6-05,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 AUG 1962. Other requests shall be referred to Interagency Data Exchange Program, Washington, DC. Document partially illegible.	Not Available
ADB187200	Space-Science Activities in the United States Space Programme	6/24/1961	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON DC	[Dryden, Hugh L.,Newell, Homer E.]	52	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1961. Other requests shall be referred to National Aeronautics and Space Administration, Attn: AO, 300 "E" Street, SW, Washington, DC 20546- 0001.	Not Available
AD0344507	3.3-PERCENT SCALE MODEL 624A AERODYNAMIC HEATING TEST POST-TEST REPORT, NASA- LANGLEY UNITARY PLAN WIND TUNNEL	10/1/1963	U	[C - 02]	MARTIN CO DENVER CO	[Svendsen, H. O.]	454	[SSD-CR-63- 152]	[CR-63- 152,SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Oct 1963. Other requests shall be referred to Hqs., Space Systems Div., AFSC, Los Angeles, CA 90009.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0444318	ORGANIZATIONAL RESPONSIBILITIES FOR THE NATIONAL SPACE EFFORT: AN ADVANCED LOGISTICS REPORT	7/1/1962	U	[C - 02,23]	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS	[Hagedorn, Lawrence D.,Zippel, Irving,Ware, Joseph M.]	108	Not Available	[AFIT]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1962. Other requests shall be referred to Air Force Air University, Attn: Institute of Technology, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0330253	AERODYNAMIC STABILITY AND CONTROL DATA MODEL 844-2050	5/16/1961	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	1	[D2 80065]	Not Available	Not Available	Not Available
AD0401747	HIGH MOMENT PRODUCING TECHNIQUES FOR ATTITUDE CONTROL AND STABILIZATION OF MANNED SPACE VEHICLES. VOLUME 1. MOMENT REQUIREMENTS AND TECHNIQUES	2/1/1963	U	[C - 02,23]	BENDIX CORP SOUTHFIELD MI	Not Available	301	[2144,ASD-TDR- 62-737-V-1]	[TDR-62-737- V-1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0432853	DESIGN ANALYSIS REPORT X-20 (DYNA-SOAR) 876C1 CONTROLLER, VOLUME 2.	12/13/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	1	[31DER62rev. B]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0314137	HEAT TRANSFER AND PRESSURE DISTRIBUTION TESTS OF BOEING DYNA-SOAR MODELS AT MACH NUMBER 8	12/1/1959	U	[C - 02]	ARO INC ARNOLD AFS TN	[CLARK, E. L.,PAYNE, R. G.,BURCHFIEL D, C. G.]	56	[AEDC-TN-59- 151]	[TN-59- 151,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1959. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389 2305.	Not Available
AD0429193	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM.	10/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR R2]	Not Available	Not Available	Quarterly progress rept., 1 July- 30 Sep 63.
AD0352368	BOEING COMMENTS ON THE DYNA- SOAR SYSTEM DEVELOPMENT TEST PLAN	3/1/1964	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	31	[DN-D2-5697- 14]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0327130	HEAT TRANSFER AND FLOW VISUALIZATION RESULTS ON THE FORWARD SECTION OF THE DYNA- SOAR GLIDER AT MACH NUMBERS 8 AND 10	12/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[HIERS, R. S.,HILLSAMER, M. E.]	50	[TN-61-168]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1961. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFS, TN 37389-0000.	Not Available
AD0366805	RADIO GUIDANCE ANALYSIS, BACK- UP TRADE STUDY AND RECOMMENDATIONS REPORT,	8/1/1962	U	[C - 02]	BOEING CO SEATTLE WASH	[Bryan ,A. E.,Retka,J. A.]	1	[D2-8100]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353207	DYNA-SOAR STEP IIA PLANNING AND ANALYSIS SECOND INTERIM REPORT. PRELIMINARY INFORMATION FOR SYSTEM PACKAGE PLAN, ADDENDUM	12/15/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	474	[D2-80490- ADD]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
ADA048990	Laminar-Turbulent Transition	10/1/1977	U	[A - 01,20,53]	ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT NEUILLY-SUR- SEINE (FRANCE)	Not Available	402	[AGARD-CP- 224]	[AGARD]	Approved for public release; distribution is unlimited. Available only to DTIC users. U.S. Government or Federal Purpose Rights License. NATO.	Conference proceedings
AD0326537	FORCE TESTS OF THE AD-599I-1 DYNA-SOAR MODEL AT MACH NUMBER 8	11/1/1961	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[CLARK,E.L.,SP URLIN,C.J.]	1	[TN61 145]	Not Available	Not Available	Not Available
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	--	-----------	---	-----------------	---	--	-----	---	-----------------------------------	---	---
AD0441732	FABRICATION OF REFRACTORY ALLOYS	12/8/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Marr, F. G.,Slosson, S. R.]	60	[D2-80094-7]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 DEC 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0353211	PROVISIONS IN THE STEP I GLIDER FOR STEP IIA MILITARY SUBSYSTEM TESTING	6/15/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Muramatsu, F.,Pottinger, R.]	103	[D2-80292]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 JUN 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0441911	TECHNICAL DEVELOPMENT SPECIFICATION FOR BETA AMPLIFIER LIMITER.	3/21/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	8	[TDS 2546 03 39]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
ADB379677	Structural Technology Evaluation and Analysis Program (STEAP) Delivery Order 0024: Hot Structure Design for Hypersonic Vehicles	4/1/2012	U	[C - 02,X - 57]	MATERIALS RESEARCH AND DESIGN INC WAYNE PA	[Hopp, Kerry,Sullivan, Brian J.,Howren, Daniel]	104	[AFRL-RB-WP- TR-2012-0161]	[TR-2012- 0161,AFRL-RB- WP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; APR 2012. Other requests shall be referred to Air Force Research Lab., AFRL/RBSA, Wright- Patterson Air Force Base, OH 45433-7542. This document contains export-controlled technical data.	Final rept. 28 Sep 2007-20 Jan 2012

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. l.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0359644	DYNA-SOAR COLD JET BASE RE- CIRCULATION TEST ON A 2% SCALE, FORE-SHORTENED STAGE I BOOSTER MODEL	5/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Stouffer,C. G.,Kondiatick, S. W.]	113	[ER-11-368]	Not Available	Not Available	Engineering rept. <i>,</i>
AD0442213	DETAIL EQUIPMENT SPECIFICATION DYNA-SOAR GLIDER TEST INSTRUMENTATION SUBSYSTEM	5/1/1962	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FL	Not Available	71	[EMR-7660-28]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1962. Other requests shall be referred to Air Force Public Affairs Office, SAF/PAS, Washington, DC 20330.	Not Available
AD0311300	DYNA-SOAR. VOLUME 1	12/31/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	288	[ER-1036-2- VOL-1]	[WADD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1958. Other requests shall be referred to Wright Air Development Div., Wright-Patterson AFB, OH 45433.	Progress rept. no. 3, 1 Oct-31 Dec 1958
AD0444214	BASE IMPLEMENTATION INTERFACES. VOLUME 1	9/18/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	262	[D2-80244-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 SEP 1963. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0278431	INVESTIGATION OF ORGANIC SEMICONDUCTORS	5/1/1962	U	[C - 02]	GENERAL ELECTRIC CO SCHENECTADY NY	[AFTERGUT, S.,BROWN, G. P.]	93	[TR-59-469-P- 3,ASD-TR-59- 469-P-3]	[TR-59-469-P- 3,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; May 1962. Other requests shall be referred to Wright Air Developmental Command, Wright-Patterson AFB, OH 45433.	Not Available
ADB272486	The Synthesis of Boron Carbide Filaments	7/10/1964	U	[B - 03]	GENERAL ELECTRIC CO PHILADELPHIA PA	[Gatti, A.,Cree, R.,Feingold, E.,Mehan, R.]	70	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Jul 1964. Other requests shall be referred to NASA, Washington, DC 20546	Final rept.
AD0441696	X-20 ENGINEERING SUMMARY REPORT STRUCTURES AND MATERIALS TECHNOLOGY	3/12/1964	U	[C - 02,23]	BOEING CO SEATTLE WA	[Colbert, L. B.]	51	[D2-81261]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 MAR 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20008. Document partially illegible.	Not Available
AD0411859	INERTIAL GUIDANCE SYSTEM PROGRAM 624A - TITAN III. RELIABILITY AND QUALITY ASSURANCE PROGRAM STATUS	7/31/1963	U	[C - 02]	GENERAL MOTORS CORP MILWAUKEE WI AC SPARK PLUG DIV	Not Available	43	Not Available	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 JUL 1963. Other requests shall be referred to Space Systems Division, Los Angeles, CA 90009-2960.	Quarterly program progress rept. 1 Apr 30 June 1963

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB212279	Limited War/Coin. Human Factors. Annex H.	5/15/1963	U	[C - 12,23]	AIR FORCE SYSTEMS COMMAND WASHINGTON DC	Not Available	115	Not Available	[AFSC]	Distribution: DTIC users only., Availability: Document partially illegible.	Not Available
AD0348230	DYNA SOAR STEP-I. BOOSTER SYSTEM TEST PROGRAM	6/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Schlechter, R.]	181	[DS15-61 REV. A]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Operational and Administrative Use; 15 Jun 1961. Other requests shall be referred to the Air Force Ballistic Missile Division, Inglewood, CA.	Not Available
AD0338762	EXPERIMENTAL INVESTIGATION OF MISSILE STAGE SEPARATION WITH AN OPERATING SECOND-STAGE JET AND A SUPERSONIC EXTERNAL STREAM	7/1/1963	U	[C - 02,23]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[Hamner, Roger L.]	57	Not Available	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1963. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFS, TN. Document partially illegible.	Not Available
AD0347888	DEVELOPMENT OF OXIDATION RESISTANT COATINGS FOR TANTALUM	12/27/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Gunderson, Joseph M.]	79	[D2-81115]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20008. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB293618	Mishap in Hypersonics: Hasta La Vista X-43A!	11/28/2001	U	[C - 02]	NATIONAL AIR INTELLIGENCE CENTER WRIGHT- PATTERSON AFB OH	[Chernyy, I.]	18	[NAIC-ID(RS)T- 2002-00020- HT]	[NAIC/WP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative or Operational Use; Nov 2001. Other requests shall be referred to National Air Intelligence Center, Attn: STINFO, Wright-Patterson AFB, OH 45433- 5648.	Technical rept.
AD0432888	WINDOW HEAT SHIELD JETTISON SYSTEM	2/22/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	80	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 FEB 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347892	GLIDER/TRANSITION DETAIL SPECIFICATION	8/29/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	754	[D2-80600-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Air Force Headquarters, Public Affairs-Information Management Office, Attn: SAF/PAS, Washington, DC 20330. Document partially illegible.	Not Available
AD0347279	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM	4/15/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[1179QR6]	Not Available	Not Available	Quarterly progress rept., 1 Jan- 31 Mar 63.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB182644	15TH Annual Technical Meeting and Equipment Exposition held in Anaheim, CA on 20-24 April 1969	1/1/1969	U	[C - 02,23]	INSTITUTE OF ENVIRONMENT AL SCIENCES MOUNT PROSPECT IL	[Hallstein, Frank]	665	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1969. Other requests shall be referred to Department of Defense, Attn: Public Affairs Ofice, Washington, DC 20301. Document partially illegible.	Not Available
AD0444182	GOVERNMENT FURNISHED PROPERTY GFP AND GFAE-DYNA- SOAR	11/1/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Samples, W.]	137	[D2-80489]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 NOV 1963. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	Not Available
AD0347637	EVALUATION OF PILOT MANUAL CONTROL DURING BOOST FLIGHT. DYNA-SOAR STEP I	11/22/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Bergsten,F. C.,Burke,H. H.,Hookway,R. O.,Clark,C. C.,Lambert,A. G.]	1	[ER11921]	Not Available	Not Available	Not Available
AD0298079	DYNA-SOAR EJECTION SEAT AND SURVIVAL SYSTEM	1/1/1961	U	[C - 02]	BOEING CO SEATTLE WA	[BOTTEM, J. M.,MILL, B. S.]	28	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0364409	DEMONSTRATION OF ADVANCED DYNA SOAR CONCEPT FEASIBILITY.	5/7/1959	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	33	[D7-2339]	Not Available	Notice: Release only to Department of Defense Agencies is authorized. Other certified requesters shall obtain release approval from Ballistic Systems Div., Norton AFB, Calif.	Not Available
AD0359106	PROGRAM PLAN TITAN II BOOSTER SYSTEM. DYNA SOAR STEP-I	3/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Tarmey,E. D.]	1	[ER-11362]	Not Available	Not Available	Not Available
AD0348194	ESTIMATED WEIGHT AND BALANCE REPORT. MODEL DYNA-SOAR I,	7/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Van Arnam,W. D.]	70	[ER11370 rev. A]	Not Available	Not Available	Not Available
AD0432641	NOSE CAP DEVELOPMENT - ROCKET ENGINE - MATERIAL EVALUATION - SECTION 3	8/8/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Maki, D. A.]	116	[D2-80083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 AUG 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB270914	Development of a Reinforced Carbonaceous and Ablative Composite for Entry Heat Protection of Manned Spacecraft	9/1/1962	U	[B - 03]	CHANCE VOUGHT CORP DALLAS TX	[Smith, F. C.]	112	[330.11]	[NASA]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Sep 1962. Other requests shall be referred to NASA, Washington, DC 20546	Quarterly progress rept., No 1 Jul-Sep 1962

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS				CALIFORNIA CO BURBANK	T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E.		3,AFFDL-TR-66- 12-VOL-3]	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	
						R.,Perlmutter, J. l.]					
AD0348301	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	10/20/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR63 408 2 2 7]	Not Available	Not Available	Quarterly summary progress rept. no. 7, 1 July30 Sep 63.
AD0434033	EMITTANCE IMPROVEMENT COATING DEVELOPMENT FOR REFRACTORY ALLOYS	12/27/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Kerlee, C. E.]	828	[D2-81110]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0347959	DYNA SOAR-SATURN C-1 LAUNCH VEHICLE STUDY FOR DYNA SOAR STEP-II PROGRAM	4/19/1961	U	[C - 02,23]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N HUNTSVILLE AL GEORGE C MARSHALL SPACE FLIGHT CENTER	Not Available	574	[MSFC-M-SAT- 61-1]	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 19 APR 1961. Other requests shall be referred to National Aeronautics and Space Administration, Code AO, 300 "E" Street, SW, Washington, DC 20546- 0001. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0342262	SPACE MISSIONS REPORT	2/1/1962	U	[C - 02]	GENERAL ELECTRIC CO SANTA BARBARA CALIF TECHNICAL MILITARY PLANNING OPERATION	[Dill,R.P.,Goss, H.P.,Grinnell,H .W.,Nadel,A.B. ,Precoda,N.]	121	[RM62TMP9]	Not Available	Not Available	Not Available
AD0347963	ABBREVIATED DEVELOPMENT PLAN FOR DYNA-SOAR MANNED MILITARY SPACE CAPABILITY	10/7/1961	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT FIELD OH	Not Available	97	Not Available	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1961. Other requests shall be referred to Aeronautical Systems Command, Wright-Patterson AFB, OH. Document partially illegible.	Not Available
AD0433090	DEVELOPMENT FLIGHT TEST PROGRAM IMPLEMENTATION. X- 20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/16/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 33 1]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL- 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0333024	BSWT 138, A SUPERSONIC PRESSURE TEST ON AD-594P-2, A .0666 SCALE MODEL OF THE DYNA- SOAR GLIDER. SPO NO. 148	12/1/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[RANDALL, R. D.]	390	[D2-80679]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0492095	DIGITAL COMPUTERS FOR DEFENSE RDT/E	5/1/1960	U	[C - 02]	OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING WASHINGTON DC	[Lanier, H. F.,Randall, Henry]	62	Not Available	[DDRE]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 MAY 1960. Other requests shall be referred to Office of the Director of Defense Research and Engineering, Washington, DC.	Not Available
AD0328294	AEROSPACE PROPULSION PROGRAM. VOLUME 7. TEST FACILITY STUDY AND FLIGHT TEST STUDY	3/15/1962	U	[B - 03]	MARQUARDT CO VAN NUYS CA	[WHITAKER, R. C.,DUFFY, J. W.]	110	[R-5884]	[ASD]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; MAR 1962. Other requests shall be referred to Air Force Aeronautical Systems Division Attn: ASRMPR, Wright-Patterson AFB, OH 45433.	Annual rept., 1 Jan 1961-28 Feb 1962
AD0325131	Secondary Power Subsystem Analysis. High Pressure Pneumatic Component	7/1/1961	U	[C - 02]	BOEING CO SEATTLE WA	[HARRUFF, G. W.]	53	[D2-8131 5]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1961. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0429195	DYNA-SOAR (STEP 1) PRIMARY GUIDANCE SUBSYSTEM.	1/15/1962	U	[C - 02]	HONEYWELL INC BOSTON MASS	Not Available	21	[1179QR1]	Not Available	Not Available	Quarterly progress rept., 1 Oct- 31 Dec 61.
AD0331703	ARNOLD ENGINEERING DEVELOPMENT CENTER TUNNEL B BOEING TEST NO. 21, HYPERSONIC PERFORMANCE STABILITY AND CONTROL TESTS OF AD-599I-1, A .054 SCALE MODEL OF THE DYNA SOAR GLIDER	7/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[BURCH,R.L.]	1	[D2 80418]	Not Available	Not Available	Not Available
AD0327311	AERODYNAMIC STABILITY AND CONTROL DATA MODEL 844-2050	5/1/1961	U	[E - 04,23]	BOEING CO SEATTLE WA	[Milnor, R. C.]	463	[D2-80065]	[ASD]	Distribution authorized to DoD only; Administrative/Operational Use; 16 MAY 1961. Other requests shall be referred to Air Force Aeronautical Division, ASZRKP, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0351029	STRUCTURAL INTEGRITY DEVELOPMENT AND TEST PROGRAM - TECHNICAL DATA REPORT - STRUCTURES TECHNOLOGY	4/28/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	334	[D2-6783-2-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 APR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66 12-VOL-3]	- [TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0353209	DYNA-SOAR STEP 1. VOLUME 1	3/1/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	367	[D2-7326-8- VOL-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1961. Other requests shall be referred to Air Force Headquarters, SAF/PAS, Washington, DC 20330.	Program progress rept. Jan-Mar 1961
AD0441909	TECHNICAL DEVELOPMENT SPECIFICATION FOR BOOSTER TARS MODULATOR.	6/25/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	10	[TDS2546 03 36]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
AD0441734	ANALYSIS OF MATHEMATICAL FORMULAE USED IN GENERATING DYNA-SOAR MASS DISTRIBUTION AND INERTIA REPORTS	12/26/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Lindsay, R. W.]	34	[D2-80745]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0353213	DYNA-SOAR STEP IIA PLANNING AND ANALYSIS. PRELIMINARY INFORMATION FOR SYSTEM PACKAGE PLAN	12/15/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	511	[D2-80490]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 DEC 1971. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Interim rept. no. 2
AD0441913	TECHNICAL DEVELOPMENT SPECIFICATION FOR AMPLIFIER DEMODULATOR, HIGH LEVEL - LOW GAIN.	4/24/1962	U	[C - 02]	HONEYWELL INC LOS ANGELES CALIF	Not Available	8	[TDS 2546 03 41]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0434000	DYNA SOAR NOSE CAP. THERMAL ANALYSIS OF THE NO. 4 STRUCTURAL DEMONSTRATOR	6/7/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Hensen, C. C.,Edwards, R. G.]	93	[3-14000-2R- 39]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0442215	PROCUREMENT SPECIFICATION LOW LEVEL LOW SPEED MECHANICAL COMMUTATOR,	7/28/1961	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FLA	[Lehmann,J. L.,Simmons,T. H.]	38	[7660 1]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Not Available
ADB270487	Evaluation Procedures for Screening Coated Refractory Metal Sheet	2/15/1963	U	[B - 03]	NATIONAL ACADEMY OF SCIENCES- NATIONAL RESEARCH COUNCIL WASHINGTON DC	Not Available	20	[MAB-189-M]	[DARPA]	Distribution authorized to U.S. Gov't. agencies only; Properietary Info; Sep 2002. Other requests shall be referred to AMPTIAC IIT Research INSTITUTE, 201 Mill Street, Rome, New York 13440.	Not Available
AD0311302	HUMAN ENGINEERING REPORT	3/1/1959	U	[C - 02,23]	MARTIN CO BALTIMORE MD	Not Available	593	[ER-10367]	[ARDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1971. Other requests shall be referred to Air Force Air Research and Development Command, Attn: Directorate of Systems Management, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348228	DYNA SOAR STEP-I. FINAL BOOSTER SYSTEMS CONFIGURATION. TITAN II. AMENDMENT A	6/21/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Jewett,F.]	37	[ER11364]	Not Available	Not Available	Not Available
AD0441698	REFRACTORY METAL PROCUREMENT FOR DYNA-SOAR	11/7/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	[Bergstrom, T. R.]	75	[D2-80094-4]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 07 NOV 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0348232	BOOSTER PERFORMANCE DEVELOPMENT DATA. DYNA SOAR STEP I,	5/31/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Seider,B. L.,Cairns,C. L.]	1	[TN DS66 61 rev. A]	Not Available	Not Available	Not Available
AD0347894	STRUCTURAL INTEGRITY DEVELOPMENT AND TEST PROGRAM - DETAIL PLAN - STRUCTURES TECHNOLOGY	12/20/1963	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	1	[D2 6783 1]	Not Available	Notice: Only military offices may requestfrom DDC.	Not Available
AD0432639	DESIGN CONCEPTS FOR RELIABILITY HYDROGEN COOLING EQUIPMENTS AND HYDROGEN TANK PRESSURE CONTROLS BOEING DYNA-SOAR,	5/17/1963	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Sawyer,T. E.,Busch,E. F.]	115	[DS54R rev. 4]	Not Available	Not Available	Not Available
AD0431907	DYNA SOAR STEP I. AIRBORNE MALFUNCTION DETECTION SYSTEM SPECIFICATION,	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Maag,K. R.]	15	[MB 564]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348196	ESTIMATED WEIGHT AND BALANCE REPORT MODEL DYNA-SOAR I,	5/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[VAN Arnam,W. D.]	70	[ER11370]	Not Available	Not Available	Not Available
AD0400626	ENVIRONMENTAL CONTROL SYSTEMS SELECTION FOR MANNED SPACE VEHICLES	2/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Oberto, R. J.]	321	[ASD-TR-61- 240-P-2-V-1]	[TR-61-240-P- 2-V-1,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1963. Other requests shall be referred to Aeronuatical Systems Division, Wright-Patterson AFB. OH 45433. Document partially illegible.	Technical rept.
AD0346911	PROCEEDINGS OF 1962 X-20A (DYNA-SOAR) SYMPOSIUM. VOLUME II. FLIGHT MECHANICS AND GUIDANCE	3/1/1963	U	[C - 02]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	342	[ASD-TDR63- 148-VOL-2]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Other requests shall be referred to Aeronautical systems Div., Wright- Patterson AFB, OH 45433.	Not Available
AD0432643	NUMERICAL RELIABILITY ANALYSIS. HYDROGEN COOLING EQUIPMENT AND HYDROGEN TANK PRESSURE CONTROLS. BOEING DYNA-SOAR,	5/29/1963	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Sawyer,T.,Bus ch,E. F.]	22	[DS43 rev. 3]	Not Available	Not Available	Not Available
AD0431911	Dyna-Soar Launch sites	8/31/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	105	[TN-DS-7-60]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Air Force Public Affairs Office, SAF/PAS, Washington, DC 20330.	Interim progress rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0814737	TRADEOFF INVESTIGATION BETWEEN AERODYNAMIC AND THRUST-AUGMENTED MANEUVERING FOR LIFTING REENTRY VEHICLES	4/1/1967	U	[B - 03,X - 57]	MALVESTUTO AERO SPACE CORP OXNARD CA	[Brackeen, Richard E.,Arthur, Paul D.,Tsucalas, John C.]	227	[MR-58,AFFDL- TR-67-31]	[TR-67- 31,AFFDL]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; 24 APR 1972. Other requests shall be referred to Director, Air Force Flight Dynamics Lab., Attn: FDMG. Wright-Patterson AFB, OH 45433. This document contains export-controlled technical data.	Final rept. Jul 1965-Jan 1967
AD0448544	EVALUATION OF FASTENERS FOR REFRACTORY ALLOYS	12/18/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Marr, F. G.]	110	[T2-2655,IDEP- 307.00.00.90- C6-01]	[307.00.00.90- C6-01,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 18 DEC 1963. Other requests shall be referred to Interagency Data Exchange Program, Washington, DC.	Not Available
AD0348303	PROPOSED SPECIFICATION EXHIBIT FOR RADIO SET AN/GRQ-8(XA-1) DYNA SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/15/1962	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	1	Not Available	Not Available	Not Available	Not Available
AD0352341	CCN 50 PHASE O STUDY FOR X-20	10/25/1963	U	[D - 16,23]	BOEING CO SEATTLE WA	Not Available	251	[DN-D2-80980]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 25 OCT 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431875	X-20 (DYNA SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	6/30/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	37	Not Available	Not Available	Not Available	Failure rept. tabulation, 1 Apr-30 June 63.
AD0347965	PRELIMINARY FEASIBILITY STUDY FOR THE SATURN-DYNA SOAR VEHICLE	1/16/1961	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N HUNTSVILLE AL GEORGE C MARSHALL SPACE FLIGHT CENTER	Not Available	249	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 JAN 1961. Other requests shall be referred to George C. Marshall Space Flight Center, Huntsville, AL.	Not Available
AD0430176	ANALYSIS OF AIRBORNE ANTENNA LOBING X-20 (DYNASOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	2/14/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 25 1]	Not Available	Not Available	Not Available
AD0136388	BRASS BELL RECONNAISSANCE AIRCRAFT WEAPON SYSTEM RECONNAISSANCE	6/30/1958	U	[C - 02]	BELL AEROSPACE CO BUFFALO NY	[BARNES, JAMES A.,HART, GEORGE G.]	73	[D143-945- 060,ARDC-TR- 58-44]	[TR-58- 44,ARDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jun 1958. Other requests shall be referred to Air Reseach and Development Command, Washington, DC.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0482844	A STUDY TO DEVELOP DESIGN CRITERIA FOR AERODYNAMICALLY HEATED SWEPT AND DELTA WING STRUCTURES, VOLUME 1 - SUMMARY REPORT	3/1/1966	U	[C - 02,X - 57]	BELL AEROSYSTEMS CO BUFFALO NY	[Gallagher, Richard H.,Buckley, William H.,Batt, James R.,Janis, Michael]	236	[AFFDL-TR-65- 127-VOL-1]	[TR-65-127- VOL-1,AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; MAR 1966. Other requests shall be referred to Air Force Flight Dynamics Lab., Research and Technology Div., Attn: FDTR, Wright-Patterson AFB, OH 45433. This document contains export- controlled technical data.	Final rept. May 1964- Feb 1965
AD0317165	PRESSURE DISTRIBUTION TESTS OF SEVERAL CONFIGURATIONS OF A BOEING DYNA-SOAR MODEL IN TUNNEL HOTSHOT 2	6/1/1960	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFS TN	[DESKINS, H.EUGENE,SW AIN, W.NORMAN]	28	[TN60 94]	Not Available	Distribution: NOFORN.	Not Available
AD0333026	BTWT 744. A High Speed Pressure Test of AD-594P-2, A .0666 Scale Model to Determine the Location of the DS-1 Glider (X-20) Air Data System Reference.	12/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	[BURCH,ROBE RT R.]	1	[D2 80694]	Not Available	Not Available	Not Available
AD0433271	INFORMAL TRADE STUDY DATA REACTION CONTROL SYSTEM	7/3/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	147	[D2-80617]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 03 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0491974	INDEX AERONAUTICUS. VOLUME 21. NUMBERS 1-12. ANNUAL INDEX, 1965	1/1/1966	U	[C - 02,23]	MINISTRY OF AVIATION LONDON (UNITED KINGDOM) TECHNICAL INFORMATION AND LIBRARY SERVICES	Not Available	189	Not Available	[X5]	Distribution authorized to U.S. Gov't. agencies and their contractors; Foreign Government Information; 1966. Other requests shall be referred to British Embassy, 3100 Massachusetts Avenue, NW, Washington, DC 20008. Document partially illegible.	Not Available
ADB209376	Recommendations and Evaluations of Materials-Research Areas of Importance to Missile and Space Vehicle Structures.	10/1/1963	U	[C - 12]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON DC	[Esgar, Jack B.,Dow, Norris F.,Micks, William R.]	31	[NASA-TN-D- 2125]	[XD]	Distribution: DTIC users only.	Technical note,
AD0347678	X-20 ESCAPE SYSTEM,	2/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Dickson, George G.]	1	Not Available	Not Available	Availability: Document partially illegible.	Not Available
AD0431767	TEST REPORT DEI MODEL TMR-5A TELEMETRY RECEIVER (PRELIMINARY) X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM,	9/28/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[4,CR62 408 7 41]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	- [TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0491190	SUBCONTRACT PLAN FOR DYNA SOAR (STEP 1) PROGRAM	8/23/1960	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	41	[D2-5697-13]	[ASC/WPAFB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; AUG 1960. Other requests shall be referred to Aeronautical Systems Center, Attn: LMSD, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0332258	HYPERSONIC PRESSURE AND HEAT TRANSFER TESTS OF THE DYNA SOAR MODEL NO. 844-2050	9/1/1962	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	1	[D2 80748]	Not Available	Not Available	Not Available
AD0347606	CONSTRUCTION AND USE OF DYNA- SOAR ENERGY MANAGEMENT OVERLAYS	12/18/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Kauefman,R. R.]	61	[D2 80869]	Not Available	Not Available	Not Available
AD0452187	INVESTIGATION OF AEROSPACE VEHICLE CREW STATION CRITERIA.	7/31/1964	U	[C - 02]	NORTH AMERICAN AVIATION INC DOWNEY CALIF	[Moran,J. A.,Tiller,P. R.]	436	[SID64 997,AFFDL- TDR64 86]	[TDR64 86]	Distribution: No Foreign.	Final rept.,
AD0365190	INVESTIGATION OF AN AERODYNAMIC SPIKE IN HYPERSONIC FLOW	6/1/1962	U	[C - 02]	AIRBORNE INSTRUMENTS LAB DEER PARK NY	Not Available	286	[1198-1]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific authority Jun 1962. Other requests shall be referred to HQ Ballistic Systems Division Air Force Systems Command, USAF, Washington, DC.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0369188	DEVELOPMENT AND CALIBRATION OF HEAT FLUX TRANSDUCERS FOR HIBEX	1/28/1966	U	[B - 03]	BOEING CO SEATTLE WA	[Martin, D. L.,Hibbert, J. A.]	62	[D2-99590-1]	[AMSMI]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; JAN 1966. Other requests shall be referred to Ballistic Missile Defense Systems Command, Attn: BMDSC-AO Library, P.O. Box 1500, Huntville, AL 35807.	Not Available
AD0404492	A Study of Selected Control-Display Problems for Manned Aerospace Vehicles	3/1/1963	U	[C - 02]	LEAR INC GRAND RAPIDS MI	[Pickel, Francis E.,Brown, Edward B.,Carter, Charles C.,Hainsworth, Thomas E.,Lansing, Linus E.,Lukac, Richard,Oinas, George I.,Ranford, Alan B.,Schearer, Jerry T.,Snider, Gerald L.]	273	[ASD-TDR-63- 170]	[TDR-63- 170,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1963. Other requests shall be referred to Flight Control Lab., Aeronautical Systems Div., Wright Patterson AFB, OH.	Interim rept. Mar 1961- Mar 1962

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432610	RIVETED AND BOLTED JOINTS OF REFRACTORY AND SUPER ALLOYS	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Elrod, S. D.,Marr, F. G.]	97	[D2-80272]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB234120	Review of January 1961 Lectures in Aerospace Medicine at the USAF School of Activation Medicine. Appendix to Trip Report: A260-LS- M-29.	2/13/1961	U	[C - 12]	DOUGLAS AIRCRAFT CO INC SANTA MONICA CA MISSILE AND SPACE SYSTEMS DIV	Not Available	113	Not Available	[XD]	Distribution: DTIC users only.	Not Available
AD0355292	DEVELOPMENT OF STABILITY AND CONTROL FOR THE X-20A (DYNA- SOAR)	10/1/1964	U	[C - 02]	SYSTEMS ENGINEERING GROUP WRIGHT PATTERSON AFB OH	[Dodd, Jr., Lee P.]	46	[SEG-TDR-64- 31]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1964. Other requests shall be referred to Air Force Systems Engineering Group, Research and Technology Division, Wright-Patterson AFB, OH 45433.	Rept. for Apr 1960-Dec 1963
AD0353215	STRUCTURAL INTEGRITY DEVELOPMENT AND TEST PROGRAM TECHNICAL DATA REPORT STRUCTURES TECHNOLOGY	10/5/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	362	[D2-6783- 2- 3]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 05 OCT 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB241070	A Report by the Committee on Facilities Relating to Long-Range Scientific and Technical Trends of Interest to the United States Air Force	1/1/1958	U	[C - 12]	NATIONAL ACADEMY OF SCIENCES- NATIONAL RESEARCH COUNCIL WASHINGTON DC	[Briggs, Seth,Hardy, James D.,Harris, William J., Jr.,Markham, John R.,Perkins, Courtland D.]	20	Not Available	[ARDC]	Distribution: DTIC users only.	Not Available
AD0313990	RECOVERABLE BOOSTER SUPPORT SYSTEMS	10/1/1959	U	[C - 02]	WRIGHT AIR DEVELOPMENT DIV WRIGHT- PATTERSON AFB OH DIRECTORATE OF SYSTEMS MANAGEMENT	[SMITH, LOWELL B.,ZIMMERMA N, JOHN W.]	97	[ARDC-SR- 89774,ARDC- TR-59-86]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1959. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Evaluation rept.
AD0441740	COATINGS FOR REFRACTORY METALS	12/27/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Cona, D.]	80	[D2-80094-3]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 27 Dec 1963. Other requests shall be referred to Department of Defense (DOD), Attn: Public Affairs Office, Washington, DC 20301.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0400557	ANALYSIS OF TRANSIENT HEATING FOR FINITE AND SEMI-INFINITE SLABS	1/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Miller, L. E.]	28	[ASD-TDR-62- 947]	[TDR-62- 947,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1963. Other requests shall be referred to AeronauticaL SYSTEMS DIVISION, WRIGHT- PATTERSON AFB, OH 45433. Document partially illegible.	Not Available
AD1068964	Basic Studies on Future Airborne Laser Weapon Systems	3/7/2019	U	[B - 03,X - 57]	JOHN TILLER SOFTWARE INC MADISON United States	[Tiller,John,Hu ssey,Thomas]	42	[AFRL-AFOSR- VA-TR-2019- 0045]	[AFRL-AFOSR- VA-TR-2019- 0045]	U.S. Government agencies only;Proprietary Information;,01 Feb 2008.Other request shall be referred to Air Force Research Laboratory/RS,Arlington,VA,22203-1954,Air Force Research Laboratory/RS.This document contains export-controlled technical data.	STTR Report,01 Mar 2016,28 Feb 2019
AD0810236	SURVEY OF AIRCRAFT THERMAL CONTROL SYSTEMS	11/1/1966	U	[C - 02,X - 57]	AIR FORCE FLIGHT DYNAMICS LAB WRIGHT- PATTERSON AFB OH	[Krantweiss, Gerald]	175	[AFFDL-TR-66- 44]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1966. Other requests shall be referred to Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433. This document contains export- controlled technical data.	Final rept. May 1965- Apr 1966

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0370739	X-20 (DYNA-SOAR) GUIDANCE BACKUP EQUIPMENT STUDY	11/12/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Bailey, Ray B.]	106	[D2-80705]	[SEG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 12 NOV 1962. Other requests shall be referred to Systems Engineering Group, Research and Technology Div. (AFSC), Wright-Patterson AFB, OH 45433.	Not Available
ADB241392	Notices of Changes in Classification, Distribution and Availability for Jan 1999	1/31/1999	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[BUSH, WILLIAM B.,LEACH, YVETTE A.,Rogers, Zena D.]	45	[DTIC/TR-99/2]	[DTIC/FB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 31 Jan 99. Other requests shall be referred to DTIC- OCQ, 8725 John J. Kingman Rd., Suite 0944, Fort Belvoir, VA 22060-6218.	TECHNICAL REPT. 1-31 Jan 99
AD0335070	PRESSURE DISTRIBUTION AND HEAT-TRANSFER TESTS ON THE DYNA-SOAR X-20 CONFIGURATION WITH VARIOUS CONTROL SETTINGS AT MACH 10	3/1/1963	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[RHUDY,R.W., BURT,R.H.,BU RDETTE,J.E.]	1	[TDR63 40]	Not Available	Not Available	Not Available
AD0347896	GLIDER FLIGHT CONTROL SUBSYSTEM ANALYSIS REPORT (X- 20)	12/26/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Morrison, G. E.,Rowe, W. E.,Brostrom, K. E.]	225	[D2-8129-1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0295529	DIRECTIONAL TENSILE PROPERTIES OF F48 COLUMBIUM ALLOY AT ROOM TEMPERATURE	1/10/1963	U	[C - 02]	MCDONNELL AIRCRAFT CORP ST LOUIS MO	[Brookes, R. H.]	11	[9339]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 JAN 1963. Other requests shall be referred to Air Force Aeronautical Systems Division, Directorate of Materials and Processes (ASRCEM-1), Wright- Patterson AFB, OH 45433.	Not Available
AD0461392	AN ANALOG COMPUTER SIMULATION FOR X-20 GLIDE PHASE GUIDANCE STUDIES	8/24/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Wisneski, Mitchell]	100	[D2-90234]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 AUG 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0431909	DYNA-SOAR LAUNCH COMPLEX SAFETY PROCEDURE	10/1/1961	U	[C - 02,23]	MARTIN CO BALTIMORE MD	[Kerr, J. R.]	40	[DS-63-61]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 01 OCT 1961. Other requests shall be referred to Department of Defense (DoD), Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0624227	A CATALOG OF SIMULATORS FOR TRAINING SPACE FLIGHT PERSONNEL	5/1/1965	U	[C - 02,23]	NEW YORK UNIV BRONX SCHOOL OF ENGINEERING AND SCIENCE	[Young, Hayward]	268	[SETE- 210/83.1]	[BUSHIPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1965. Other requests shall be referred to Bureau of Ships, Attn: Code 679A, Washington, DC. Document partially illegible.	Not Available
AD0348198	RANGE SAFETY DESIGN STUDY	5/12/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Muehlberger, L.,Scopel,E.]	39	[TN DS28 61]	Not Available	Not Available	Not Available
AD0444190	DYNA-SOAR DEVELOPMENT TEST PLAN - FUNCTIONAL	3/6/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Simpson, D. M.,Minch, H. J.]	46	[D2-5697-16- VOL-5]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; MAR 1962. Other requests shall be referred to Air Force Aeronautics Systems Division, Wright- Patterson AFB, OH 45433.	Not Available
AD0346913	PROCEEDINGS OF 1962 X-20A (DYNA-SOAR) SYMPOSIUM. VOLUME IV. INSTRUMENTATION AND COMMUNICATIONS	3/1/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	257	[ASD-TDR63- 148-VOL-4]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Other requests shall be referred to Aeronautical Systems Div., Wright- Patterson AFB, OH 45433.,	Not Available
AD0432645	REACTION CONTROL POWER COMPONENT RELIABILITY FAILURE RATE ANALYSIS. DYNA SOAR,	1/2/1962	U	[C - 02]	TRW INC CLEVELAND OHIO	[Beatty,H. W. ,Jr.]	11	[TM3245 93]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0878594	Production Engineering Measure for Integrated Amplifier Circuit XM596	11/1/1970	U	[C - 02,X - 57]	RCA SOLID STATE DIV SOMERVILLE NJ	[Malchow, M. E.]	33	Not Available	[ECOM]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; NOV 1970. Other requests shall be referred to Army Electronics Command, Attn: Industrial Engineering Division, Philadelphia, PA 19103. This document contains export-controlled technical data.	Quarterly progress rept. no. 1, 15 Jun-15 Sep 1970
AD0320147	FORCE TESTS OF THE AD-4901-1 DYNA SOAR MODELS AT MACH NUMBER 8	11/1/1960	U	[C - 02]	ARO INC ARNOLD AFS TN	[CLARK, E. L.,KAYSER, L. D.]	44	[AEDC-TN-60- 213]	[TN-60- 213,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1960. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389 2305.	Not Available
ADB272565	Investigation of Weldability of Additional Columbium Alloys	1/15/1963	U	[B - 03]	THOMPSON RAMO WOOLDRIDGE INC CLEVELAND OH TAPCO DIV	[Fullerton, T. L.,Gerken, J. M.]	62	[ER-5176]	[ASD]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Jan 1963. Other requests shall be referred to ASD/AFSC, WPAFB, OH 45433	Quarterly progress rept. no. 2, 1 Oct-31 Dec 1962
AD0348305	DYNA-SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM	7/20/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR62 408 2 2 2]	Not Available	Not Available	Quarterly program progress rept. no. 2, 1 Apr30 June 62.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0352343	X-20 (Dyna-Soar) Presentation to the AFSAB Aerospace Vehicle Panel on October 19th, 1962	10/19/1962	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	169	[D2-80765]	[SAB]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational use; 19 Oct 1962. Other requests shall be referred to U.S. Air Force Scientific Advisory Board, Washington, DC.	Not Available
AD0238238	ANNUAL INDEX OF ARDC TECHNICAL DOCUMENTARY REPORTS FOR 1959	7/1/1960	U	[C - 02,23]	AIR RESEARCH AND DEVELOPMENT COMMAND WASHINGTON DC	Not Available	438	Not Available	[ARDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1960. Other requests shall be referred to Air Research and Development Command (Air Force), Washington, DC., Availability: Document partially illegible.	Not Available
ADB186403	Astronautics Information. Abstracts. Reports and Open Literature. Volume 6. Number 1	7/1/1962	U	[C - 02,23]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	[Carringer, E. M.,Highnote, S. A.,Ives, N.,Nichols, B. H.,Warren, F. L.]	75	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1962. Other requests shall be referred to the National Aeronautics and Space Administration, Washington, DC. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0339573	DATA REPORT AMES RESEARCH CENTER 9'x7' AND 11'x11' UNITARY PLAN WIND TUNNELS, TEST NOS. 114 AND 90. SUPERSONIC AND TRANSONIC AIRLOAD DISTRIBUTION TESTS OF AD-603M- 1, A .075 SCALE MODEL OF THE 844-2050 DYNA-SOAR GLIDER VEHICLE	7/11/1963	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	668	[D2-80793-VOL 3]	USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 JUL 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB193528	Study of Orbital Launch Operations. Volume 1. Summary	6/14/1961	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	Not Available	42	[AST-E1R- 13491-VOL-1]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 JUN 1961. Other requests shall be referred to Department of Defense (DoD), Attn: Public Affairs Office, Washington, DC 20301.	Interim progress rept.
AD0430787	QUALITY ASSURANCE CHECK LISTS AIRBORNE RADIO SET PROTOTYPE EQUIPMENT. X-20 (DYNA-SOAR), COMMUNICATIONS AND TRACKING SUBSYSTEM.	9/15/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR63 40816 3 1]	Not Available	Not Available	Not Available
AD0431877	X-20 (DYNA SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	3/31/1963	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	21	Not Available	Not Available	Not Available	Failure report tabulation, 1 Jan-31 Mar 63.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0430791	AIRBORNE INSTRUMENTATION PLAN FOR DEVELOPMENT TEST PROGRAM. X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	11/22/1963	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	1	[CR63 408 15 1 4 1]	Not Available	Not Available	Not Available
AD0447957	APPLICATIONS OF X-20 STATE OF THE ART DEVELOPMENTS TO FUTURE SPACE SYSTEMS	12/23/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	208	[D2-81035]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0325601	Dyna-Soar Propagation Technical Data.	12/1/1961	U	[F - 05]	BOEING CO SEATTLE WASH	[KELLY,J.,SCHO RSCH,J.]	1	[D2 8031 2]	Not Available	Not Available	Not Available
AD0311701	TRADE STUDY DYNA SOAR. CONTROLLED ENVIRONMENT VOLUME,	1/1/1960	U	[E - 04]	BOEING CO SEATTLE WASH	[Geiger,John]	1	[DN D2 7844]	Not Available	Notice: Release only to Department of Defense agencies is authorized. Other certified requesters shall obtain release approval from Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, Ohio. Attn: RTD (SENX-A).	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0464729	RESEARCH ON TEMPERATURE ATTITUDE SENSING FOR REENTRY VEHICLES	3/1/1965	U	[C - 02,23,X - 57]	AVCO CORP WILMINGTON MA RESEARCH AND ADVANCED DEVELOPMENT DIV	[Viles, Fred M.,Lakeman, F. R.,Krey, R. U.,Watson, R. H.,Wolff, E. G.,Rybicki, G. B.]	268	[RAD-TR-62- 12,ASD-TDR-61- 539-VOL-3]	[TDR-61-539- VOL-3,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; MAR 1965. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Attn: Flight Control Division, Wright-Patterson AFB, OH 45433. Document partially illegible. This document contains export-controlled technical data.	Final rept., Jul 1963-31 Mar 1965
AD0433269	HYDRAULIC FLUID EVALUATION TESTS	12/26/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Stevens, W. R.]	116	[T2-2601]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB123069	Conceptual Design and Analysis of Hypervelocity Aerospace Vehicles. Volume 7. Design Data Base	2/1/1988	U	[C - 02,X - 57]	BOEING AEROSPACE CO SEATTLE WA FLIGHT TECHNOLOGY ORGANIZATION	[Wetzel, Eric D.,Kotker, David J.]	193	[HAVCD-F- 7,AFWAL-TR- 87-3056-VOL- 7]	[TR-87-3056- VOL- 7,AFWAL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; Jun 1987. Other requests shall be referred to Air Force Wright Aeronautical Laboratories, Attn: FIAD, Wright-Patterson AFB, OH 45433-6553., This document contains export- controlled technical data	Final rept. Jun 1986-Mar 1987

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	TR-66-12-VOL	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432541	LEADING EDGES DEVELOPMENT - DYNA SOAR	6/20/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Bowers, D. A.]	322	[D2-80085-VOL 3]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0319781	SUMMARY OF ARPA SPACE TECHNOLOGY PROGRAM REVIEW, SEPTEMBER 9, 14 AND 15, 1959. VOLUME II	12/1/1959	U	[X - 07,X - 57]	INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA	Not Available	376	[R-59-5- V2,ARPA-R-59- 5]	[R-59-5,ARPA]	Distribution authorized to U.S. Gov't. agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with DoDD 5230.25. Controlling DoD office is DARPA Washington, DC., This document contains export-controlled technical data.	Not Available
AD0465290	DATA COLLECTION DESIGN CONCEPTS AND AFFTC RANGE PLANNING TO SUPPORT THE DYNA- SOAR X-20 PROGRAM.	6/1/1965	U	[C - 02]	AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CALIF	[Knausdorf,Ha rold A.]	35	[FTC-TR-64-32]	Not Available	Release or announcement to foreign governmentsor their nationals is not authorized.	Final technical rept.,
ADB237317	Human Performance Capabilities for Military Operations in Space	1/1/1963	U	[C - 12]	AEROSPACE MEDICAL RESEARCH LABS WRIGHT- PATTERSON AFB OH BEHAVIORAL SCIENCES LAB	[Grether, Walter F.]	24	Not Available	[XD]	Distribution: DTIC users only.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348201	BOOSTER STAGE I ROCKET ENGINE INTERFACE SPECIFICATION FOR DYNA SOAR STEP I BOOSTER SYSTEM	8/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Maag,K. R.]	20	[MB560]	Not Available	Not Available	Not Available
AD0291570	Physical and Mechanical Properties of Pressure Vessel Material for Application in a Cryogenic Environment	10/1/1962	U	[C - 02]	GENERAL DYNAMICS/AST RONAUTICS SAN DIEGO CA	[Christian, J. L.]	24	Not Available	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1962. Other requests shall be referred to Department of the Air Force, ATTN: Public Affairs Office, Washington, DC 20330.	Quarterly progress rept. no. 1, 1 Jun-31 Aug 1962
AD0337213	HYPERSONIC SHOCK TUNNEL HEAT TRANSFER AND PRESSURE INVESTIGATION OF THE BOEING COMPANY X-20 CONFIGURATION. PART 1. 1/10 SCALE X-20 FORWARD FUSELAGE MODEL	4/16/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Nowlan, D. T.]	69	[D2-80905]	[AFFDL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 16 MAY 1963. Other requests shall be referred to Air Force Flight Dynamics Laboratory, Wright-Patterson AFB, OH 45433.	Not Available
AD0438114	CERAMIC FIBER HIGH TEMPERATURE THERMAL INSULATION DEVELOPMENT,	11/30/1962	U	[C - 02,23]	BOEING CO SEATTLE WASH	[Perkowski,W. S.]	37	[D2 80755,IDEP- 501.44.15.00- C6-01]	[501.44.15.00- C6-01]	Availability: Microfilm only after original copies exhausted.	Not Available
AD0347684	DYNA-SOAR STEP I. TITAN II BOOSTER PLAN	11/1/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	259	[ER-11385]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB182257	Institute of Environmental Sciences Annual Technical Meeting Proceedings (1965) held at Chicago, II on 21 - 23 April 1965	1/1/1965	U	[C - 02,23]	INSTITUTE OF ENVIRONMENT AL SCIENCES MOUNT PROSPECT IL	Not Available	628	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1965. Other requests shall be referred to Department of Defense, AttN: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0316757	FORCE TESTS OF THE BOEING A- 366I-2 DYNA-SOAR MODEL AT MACH NUMBER 8	5/1/1960	U	[C - 02,X - 57]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AFB TN	[PALKO, R. L.,RHUDY, R. W.]	45	[AEDC-TN-60- 86]	[AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JUN 1969. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH. This document contains export-controlled technical data.	Not Available
AD0362634	DYNA SOAR STEP I BOOSTER RADIO GUIDANCE SYSTEM PROGRAM PLAN	6/30/1961	U	[C - 02]	GENERAL ELECTRIC CO SYRACUSE N Y	Not Available	1	Not Available	Not Available	Not Available	Not Available
AD0401757	MOLECULAR STRUCTURE AND PHYSICAL BEHAVIOR OF POLYMERS	2/1/1963	U	[C - 02,23]	AKRON UNIV OH INST OF RUBBER RESEARCH	[MORTON, M.,GENT, A.,GADKARY, S. D.]	44	[ASD-TR-61-16- P-3]	[TR-61-16-P- 3,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Feb 1963. Other requests shall be referred to Directorate of Materials and Processes, Aeronautical Systems Division, Attn: AFSC, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Technical rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB186693	Proceedings of the Vehicle Systems Optimization Symposium held in Garden City, NY on 28-29 Nov 1961	11/1/1961	U	[C - 02]	INSTITUTE OF THE AEROSPACE SCIENCES INC NEW YORK	Not Available	171	Not Available	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1961. Other requests shall be referred to Department of Defense, ATTN: Public Affairs Office, Washington, DC 20301.	Not Available
AD0432608	DYNA-SOAR ACCESSORY POWER UNIT DEVELOPMENT TEST STATUS.	3/12/1962	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	76	[DSR5]	Not Available	Not Available	Not Available
AD0430432	LIGHTNING STRIKE PROTECTION. X- 20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM.	2/21/1964	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN N J DEFENSE ELECTRONIC PRODUCTS	Not Available	26	[CR64 408 26 1]	Not Available	Not Available	Not Available
AD0273596	SHEET BERYLLIUM COMPOSITE STRUCTURES	1/1/1962	U	[C - 02]	AERONCA MFG CORP MIDDLETOWN OH	[KRUSOS, J. N.]	270	[ASD-TR- 843(I)]	[TR- 843(I),ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JAN 1962. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Interim engineering rept. 1 Oct- 31 Dec 1961
AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
-----------	---	-----------	---	-------------	---	--	-----	---	---------------------------	--	--
AD0327888	MACH 8 PRESSURE DISTRIBUTION AND HEAT TRANSFER TESTS ON A DYNA-SOAR CONFIGURATION WITH A SIMULATED ROCKET PLUME (U)	2/1/1962	U	[C - 02]	ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN	[RHUDY,R.W., BURT,R.H.]	1	[TDR62 29]	Not Available	Not Available	Not Available
AD0353217	DYNA-SOAR STEP I	7/24/1961	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	712	[D2-7326-11]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 24 JUL 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washngton, DC 20330. Document partially illegible.	Program progress rept. Apr-Jun 1961
AD0223470	RESEARCH AND DEVELOPMENT OF BOOST-GLIDE VEHICLE COMMUNICATION ANTENNA SYSTEM TECHNIQUES	9/1/1960	U	[C - 02]	ADMIRAL CORP CHICAGO IL	[BAUER, ALEX S.]	225	Not Available	[WADC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Sep 1960. Other requests shall be referred to the Wright Air Development Center, Wright-Patterson AFB, OH 45433.	Not Available
AD0352310	PILOT IN THE BOOSTER CONTROL LOOP STUDY. VOLUME 1	12/1/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	Not Available	249	[DN-D2-80762]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; DEC 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Final rept.

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0437171	X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM. VOLUME 1. SYSTEM AND SUPPORT.	3/31/1964	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR64 408 34 1 1 vol. 1]	Not Available	Not Available	Development engineering rept.
AD0311306	DYNA-SOAR (STEP 1) PRIMARY GUIDANCE SUBSYSTEM PROGRAM PLAN. VOLUME 1	3/20/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FL	Not Available	289	[AERO-1179-SR 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 MAR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB293306	Hypersonic Flight and the National Aerospace Initiative. Part 1	7/1/2003	U	[C - 02,X - 57]	MITRE CORP MCLEAN VA JASON PROGRAM OFFICE	[Dimotakis, Paul,Brenner, Michael,Dyson , Freeman,Eardl ey, Douglas,Garwi n, Richard]	119	[JSR-02-130]	[ODDRE]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; Jul 2003. Other requests shall be referred to Office of Defense Research and Engineering, Plans and Programs, rm. 3D108, Washington, DC 20301- 3030., This document contains export- controlled technical data.	Not Available
AD0347755	REVIEW AND SUMMARY OF X-20 MILITARY APPLICATION STUDIES	12/14/1963	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	30	[63ASZR-2099]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Operational and administrative use; 14 Dec 1963. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH, 45433., Availability: Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF	5/1/1966	U	[C - 02]	LOCKHEED-	[Lloyd, J.	552	[LR-19334-VOL-	[TR-66-12-VOL	Distribution: No Foreign without approval of Air	Final rept.
	HYPERSONIC HIGH L/D TEST				CALIFORNIA CO	T.,Ehrlich, C.		3,AFFDL-TR-66-	3,AFFDL]	Force Flight Dynamics Lab., Wright-Patterson	
	VEHICLES. VOLUME 3 - TECHNICAL				BURBANK	F.,Guard, F.		12-VOL-3]		АҒВ, ОН 45433.	
	DISCUSSIONS					L.,Linneman,					
						E.					
						R.,Perlmutter,					
						J. I.]					
AD0432934	WATER WALL DEVELOPMENT	5/13/1963	U	[C - 02]	BOEING CO	[Kay, W.	427	[D2-80812]	[USAF]	Distribution authorized to U.S. Gov't. agencies	Not Available
	TESTING REPORT				SEATTLE WA	W.,Dawley, R.				and their contractors;	
						A.,Rea, S. E.]				Administrative/Operational Use; 13 MAY 1963.	
										Other requests shall be referred to Department	
										of the Air Force, Attn: Public Affairs Office,	
										Washington, DC 20330.	
ADB009186	Transtage Interim Upper Stage	6/1/1975	U	[B - 03]	MARTIN	[Teets, Peter	222	[SAMSO-TR-75-	[TR-75-182-	Distribution authorized to U.S. Gov't. agencies	Final rept. 1
	System Study. Volume 2				MARIETTA	B.]		182-VOL-2]	VOL-	only; Proprietary Information; JUN 1975. Other	Oct 1974-30
			ĺ		AEROSPACE				2,SAMSO]	requests shall be referred to Space and Missle	Jun 1975
			ĺ		DENVER CO				1	Systems Organization, Attn: LVPAA, P. O. Box	1
										92960, Worldway Postal Center, Los Angeles, CA	
										90009.	
AD0336516	DYNA SOAR ASCENT GUIDANCE	3/15/1963	U	[C - 02]	AEROSPACE	[Erilane,Rober	43	[TOR 169 3116	Not Available	Not Available	Not Available
	EQUATIONS				CORP EL	t]		40 3]			
					SEGUNDO CALIF						
AD0323352	INVESTIGATION OF THE	5/1/1961	U	[C - 02]	ARNOLD	[ANDERSON,A	1	[TN61 55]	Not Available	Not Available	Not Available
	AERODYNAMIC CHARACTERISTICS				ENGINEERING	.,DONALDSON					
	OF THE DYNA-SOAR DS-1 AIR				DEVELOPMENT	,J.C.,BELL,D.R.]					
	VEHICLE AT FREE-STREAM MACH				CENTER						
	NUMBERS FROM 3.5 TO 5.5				ARNOLD AIR						
					FORCE STATION						
					TENN						

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0313884	STATIC STABILITY AND CONTROL TESTS OF THE BOEING P-320I-1 DYNA-SOAR MODEL AT MACH NUMBER 8	12/1/1959	U	[C - 02]	ARO INC ARNOLD AFS TN	[CLARK, EDWARD L.,PAYNE, ROBERT G.]	66	[AEDC-TN-59- 148]	[TN-59- 148,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 24 FEB 1960. Other requests shall be referred to Air Force Engineering Development Command, AEDC-IN (STINFO), 251 First Street, Arnold AFB, TN 37389-2305.	Not Available
AD0433988	CRYOGENIC DIAPHRAGM MATERIAL DEVELOPMENT	1/1/1963	U	[D - 16]	BOEING CO SEATTLE WA	[Holmes, Henry]	40	[D2-80286]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0430467	INDICATOR- ATTITUDE-DIRECTOR	1/1/1943	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	42	[10-20926]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1943. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0446981	GENERAL REQUIREMENTS DOCUMENT FOR DYNA-SOAR SOURCE CONTROL DRAWINGS AND DESIGN PROCUREMENT SPECIFICATIONS	11/8/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Tureno, K. J.]	105	[DN-D2-80396]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 NOV 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0347647	DYNA SOAR PRIMARY GUIDANCE SUBSYSTEM. WORK SCHEDULE	1/30/1961	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	13	[R ED1179SR1]	Not Available	Not Available	Rept. for 21 Dec 60-30 June 61.
AD0433992	ELECTRICAL POWER REQUIREMENTS DYNA SOAR REACTION CONTROL POWER COMPONENT.	3/1/1962	U	[C - 02]	TRW INC CLEVELAND OHIO	[Bajko,R. P.,Monastra,J. C.]	1	[ER4694 2,ER4690]	Not Available	Not Available	Quarterly rept. <i>,</i>
AD0371799	TITAN II TOXIC SOURCES	2/15/1963	U	[C - 02]	TRW SPACE TECHNOLOGY LABS REDONDO BEACH CA REDONDO BEACH United States	[Hilbers,C. E.]	47	[BSD-TR-65-97, 6110-8141-TC- 0,00]	Not Available	U.S. Government agencies and their contractors;Administrative or Operational Use;,15 Feb 1963.Other request shall be referred to Ballistic Systems Div., Norton AFB, CA,Norton AFB,CA,00000,Ballistic Systems Div., Norton AFB, CA.	Technical Report
AD0430471	INDICATOR - ALTITUDE	4/27/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	27	[10-20928]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 27 APR 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0444116	DYNA-SOAR FUNCTIONAL TEST DIRECTORY	5/11/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Simpson, D. M.]	222	[D2-80260]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 MAY 1962. Other requests shall be referred to Aeronautical Systems Center, ATTN: ASZRA, Wright-Patterson AFB, OH 45433. Document partially illegible.	Not Available
AD0433562	TEST REPORT - FIRST ELEVON PROTOTYPE SERVO ACTUATOR	12/26/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Malcom, L. G.]	61	[D2-81020]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0348307	DYNA SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM	4/20/1962	U	[C - 02]	RAYTHEON CO WALTHAM MA	Not Available	1	[CR62 408 2 2 1]	Not Available	Not Available	Quarterly program progress rept. no. 1, 1 Jan31 Mar 62.
AD0441777	TECHNICAL PROPOSAL HYDROGEN TANK PRESSURIZATION SYSTEM BOEING DYNA SOAR. VOLUME I,	9/19/1961	U	[C - 02]	GARRETT CORP LOS ANGELES CALIF AIRESEARCH MFG DIV	[Fleming,W. T.,Bayer,J.,Hal ey,J. T.]	67	[DS53R]	Not Available	RELEASE OR ANNOUNCEMENT TO FOREIGN GOVERNMENTS ORTHEIR NATIONALS IS NOT AUTHORIZED.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB186405	Astronautics Information. Abstracts, Volume 5. Number 3	3/1/1962	U	[C - 02,23]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	Not Available	52	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAR 1962. Other requests shall be referred to the National Aeronautics and Space Administration, Washington, DC. Document partially illegible.	Not Available
AD0430789	DEVELOPMENT TEST PLAN DYNA- SOAR COMMUNICATIONS AND TRACKING SUBSYSTEM.	6/30/1962	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[CR62 408 15 0]	Not Available	Not Available	Not Available
AD0354171	Bulletin of the 20th Interagency Solid Propulsion Meeting with Subject Index, held in Philadelphia, PA on 13-15 Jul 1964. Volume 3	8/1/1964	U	[C - 02]	CHEMICAL PROPULSION INFORMATION AGENCY LAUREL MD LAUREL	[Miller,Stan]	599	[49A]	Not Available	U.S. Government agencies and their contractors;Administrative or Operational Use;,01 Aug 1964.Other request shall be referred to Bureau of Naval Weapons,Washington,DC,20350,Bureau of Naval Weapons.	Conference Proceedings
AD0431879	RCA 8540725 SPECIFICATION FOR X- 20 (DYNA-SOAR) COMMUNICATION AND TRACKING SUBSYSTEM. VAN SITE EQUIPMENT	11/30/1962	U	[C - 02,23]	RADIO CORP OF AMERICA CAMDEN NJ INDUSTRIAL ELECTRONIC PRODUCTS	Not Available	63	[RCA8540725]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 NOV 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office,. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADC027172	Conceptual Feasibility Study of an Advanced Military Spaceflight Capability. Volume III. Appendices, Design Study	12/10/1981	U	[B - 03]	AIR FORCE INST OF TECH WRIGHT- PATTERSONAFB OH SCHOOL OF ENGINEERING	[Coty, Phillip,Ellwood , Russell,Fuchse r, Terry,James, Patrick,Robins on, David]	520	[AFIT/GSE/81D- 1-VOL-3]	[AFIT]	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; 11 Dec 81. Other requests for this document must be referred to AFWAL/FIMS, Wright-Patterson AFB, OH 45433.	Final rept. 1 Mar-30 Nov 81
AD0430793	ELECTROMAGNETIC COMPATIBILITY TEST PLAN X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	11/30/1962	U	[C - 02]	RAYTHEON CO WALTHAM MA	Not Available	24	[CR-62-408- 15.5-1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 NOV 1962. Other requests shall be referred to Aeronautical Systems Div., Wright-Patterson AFB, OH 45433.	Not Available
ADB176332	Soviet Views on Military Operations in Space	7/1/1986	U	[E - 04,X - 57]	TEXAS A AND M UNIV COLLEGE STATION CENTER FOR STRATEGIC TECHNOLOGY	[Kipp, Jacob W.,Monks, Alfred L.,Muniz, Joseph J.,Stubbs, Kevin D.,Thomas, Richard E.,Wright, Ronald J.]	282	[SS86- 1,OSD/NA-86- 2565]	[86- 2565,OSD/NA ]	Distribution authorized to DoD only; Direct Military Support; 01 JUL 1986. Other requests shall be referred to Office of the Secretary of Defense, Office of the Director of Net Assessment, Rm 3A930, The Pentagon, Washington, DC 20301. This document contains export-controlled technical data.	Stratech Studies Series

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311703	DYNA SOAR ESCAPE SYSTEM EVALUATION.	10/11/1960	U	[E - 04]	BOEING CO SEATTLE WASH	Not Available	75	[DN D2 8018]	Not Available	Notice: Release only to Department of Defense Agencies is authorized. Other certified requesters shall obtain release approval from Research and Technology Div., (SENX-A), Wright- Patterson AFB, Ohio.	Not Available
ADB185892	Astronautics Information. Open Literature Survey. Vol. 3, No. 2	2/1/1961	U	[C - 02]	CALIFORNIA INST OF TECHNOLOGY PASADENA JET PROPULSION LAB	Not Available	38	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; FEB 1961. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC.	Not Available
AD0352488	COMMUNICATIONS-TEST INSTRUMENTATION SUBSYSTEM, SIMULATION TEST RESULTS	7/30/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Douglas, F. C.,Andreika, J. T.]	121	[DN-D2-80203- 1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 30 JUL 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB018570	Effects of Space Transportation Systems on USAF Roles and Missions	4/1/1977	U	[C - 02]	AIR WAR COLL MAXWELL AFB AL	[Davis, Phillip O.]	69	[AWC-35]	[AWC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; MAY 1977. Other requests shall be referred to Commandant, Air War College, Maxwell AFB, AL 36112.	Research rept.
AD0432543	INSULATED PANEL DEVELOPMENT DYNA-SOAR,	10/3/1963	U	[C - 02,23]	BOEING CO SEATTLE WASH	[Darcy,Kennet h E.]	255	[D2 80080 Section I]	Not Available	Distribution: NOFORN. Availability: Microfilm only after original copies exhausted.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0284618	INVESTIGATION OF STABILIZATION AND CONTROL SYSTEMS FOR APPLICATION TO AERO SPACE VEHICLE ESCAPE CAPSULES	6/1/1962	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[CHEW, F.E.,OLING, L.,CLUTZ, H.A.]	204	[3- 14000/2R11,A SD-TDR-62- 243]	[TDR-62- 243,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Aeronautical Systems Division, Wright-Patterson AFB, OH 45433.	Not Available
ADB206647	Proceedings of the National Symposium on Reliability and Quality Control (10th) Held in Washington, DC on 7-9 January 1964.	1/1/1964	U	[C - 12,23]	AMERICAN SOCIETY FOR QUALITY CONTROL INC MILWAUKEE WI	Not Available	664	Not Available	[XD]	Distribution: DTIC users only., Availability: Document partially illegible.	Not Available
AD0471609	SHOP-CONTAMINATION EFFECT ON DISILICIDE COATINGS	10/10/1962	U	[C - 02,23]	BOEING AEROSPACE CO SEATTLE WA	[Forshee, A. G.]	41	[QCDR-2-1864- 2,IDEP- 347.15.00.00- C6-01]	[347.15.00.00- C6-01,IDEP]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 10 OCT 1962. Other requests shall be referred to Interagency Data Exchange Program, DoD, Washington, DC 20301. Document partially illegible.	Final rept.
AD0348203	STRUCTURAL DESIGN LOADS. DYNA- SOAR, STEP I, BOOSTER,	5/23/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Noyes,F. L.]	1	[DS61 61]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0344165	STRUCTURAL DESIGN AND CRITERIA TRADE STUDY	9/2/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Seiferth, R.]	115	[ER-11338]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 02 SEP 1960. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0328049	PRELIMINARY PERFORMANCE ANALYSIS OF AIR LAUNCHING MANNED ORBITAL VEHICLES	2/1/1962	U	[C - 02]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON D C	[BELLMAN,DO NALD R.,WASHINGT ON,HAROLD P.]	1	[TM X 636]	Not Available	Not Available	Not Available
ADB234729	Notices of Changes in Classification, Distribution, and Availability. Jan 97-Apr 98.	4/30/1998	U	[C - 02]	DEFENSE TECHNICAL INFORMATION CENTER FORT BELVOIR VA	[Bush, William,Roger s, Zena D.]	227	[DTIC/TR-98/2]	[DTIC*]	Distribution authorized to U.S. Gov't. agencies and their contractors; Specific Authority; 30 Apr 98. Other requests shall be referred to DTIC/OCQ, 8725 John J. Kingman Road, Suite 0944, Ft. Belvoir, VA 22060-6218.	Technical rept. Jan 97- 30 Apr 98,
ADB082810	Advanced Military Spaceflight Capability (AMSC) Technology Identification Study. Volume 1. Executive Summary	7/1/1983	U	[B - 03,X - 57]	GENERAL DYNAMICS SAN DIEGO CA CONVAIR DIV	[Heald, D. A.,Anderson, D. A.,Bowman, M. D.,Brower, D. L.,Drowns, R. E.]	53	[GDC-ASP-83- 008-VOL- 1,AFWAL-TR- 83-3076-VOL- 1]	[TR-83-3076- VOL- 1,AFWAL]	Distribution limited to U.S. Gov't. agencies only; Test and Evaluation; Jul 1983. Other requests must be referred to AFWAL/FIMS, Wright- Patterson AFB, OH 45433., This document contains export-controlled technical data.	Final technical rept. Aug 1981-Mar 1983

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0335970	Reaction Jet Controls on a Configuration of the X-20 Glide Vehicle (Model AD366I-2) at Mach Numbers 2, 4, and 6	5/1/1963	U	[C - 02]	ARO INC ARNOLD AFS TN	[Strike, W. T.]	45	[ARO-IG-348- 343,AEDC-TDR- 63-80]	[TDR-63- 80,AEDC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; MAY 1963. Other requests shall be referred to Arnold Engineering Development Center, Arnold AFB, TN 37389.	Technical documentary rept.
AD0432614	NOSE CAP DEVELOPMENT TESTS - FULL SIZE STRUCTURAL DEMONSTRATOR TESTS DYNA- SOAR	12/26/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Esch, P. G.,Landry, B. E.,Swegle, A. R.]	90	[D2-80083- SECT-6]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0350920	MARK 3 ADVANCED RE-ENTRY VEHICLE PROGRAM APPLIED RESEARCH. TASK: AERODYNAMICS OF CONTROLLED ATMOSPHERIC RE- ENTRY	6/30/1961	U	[C - 02]	GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE DIV	Not Available	38	[DIN-269-486]	[BSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jun 1961. Other requests shall be referred to Ballistic Systems Division, Norton AFB, CA.	Final rept.
AD0353219	DYNA-SOAR MASTER DATA MEASUREMENTS LIST. VOLUME 2. LOCATIONS	5/28/1962	U	[C - 02,23]	BOEING CO SEATTLE WA	[Howard, John R.]	30	[D2-7342-VOL- 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 28 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
ADB183102	Joint Conference on Lifting Manned Hypervelocity and Reentry Vehicles	4/1/1960	U	[C - 02,23]	NATIONAL AERONAUTICS AND SPACE ADMIN LANGLEY RESEARCH CENTER HAMPTON VA	Not Available	611	Not Available	[NASA-L]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 APR 1960. Other requests shall be referred to National Aeronautics and Space Administration, Langley Research Center, Hampton, VA. Document partially illegible.	Not Available
ADB193927	Radar Command and Control for Aerospace Systems	11/1/1961	U	[C - 02]	SPERRY PHOENIX CO AZ	Not Available	48	[LJ-1273-0124]	[XD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; NOV 1961. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0434006	DYNA-SOAR ACCEPTANCE TEST REQUIREMENTS AMR VAN.	7/27/1962	U	[C - 02]	ELECTRO- MECHANICAL RESEARCH INC SARASOTA FLA	Not Available	60	[EMR 7660 65]	Not Available	Not Available	Not Available
AD0352312	DYNA-SOAR TITAN III AIR VEHICLE DESCRIPTION, AIR VEHICLE 853- 1001B	1/8/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Staples, F. G.,Bono, R. L.]	133	[DN-D2-80740- VOL.1]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 08 JAN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0326549	Abstracts of the Eleventh Annual Symposium on the USAF Antenna Research and Development Program on October 16-20, 1961, Volume II.	12/1/1961	U	[C - 02,23]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	1	Not Available	Not Available	Distribution: NO FORN, Availability: Document partially illegible.	Not Available
AD0338810	FLIGHT CONTROL OF THE X-20 - TITAN DURING BOOST PHASE	6/1/1963	U	[C - 02,23]	AIR FORCE INST OF TECH WRIGHT- PATTERSON AFB OH SCHOOL OF ENGINEERING	[Graff, John A.]	87	[AFIT/GGC/EE/ 63-5]	[AFIT/ENG]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1963. Other requests shall be referred to Air Force Institute of Technology, School of Engineering, Wright-Patterson AFB, OH 45433. Document partially illegible.	Master's thesis
AD0445392	BOOSTER AIRBORNE ELECTRICAL SYSTEM. DYNA SOAR STEP-I	8/15/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Folberth, G.]	27	[DS-31-61-REV- A]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 AUG 1961. Other requests shall be referred to Air Force Ballistic Missile Division, Attn: SMC/HO, Los Angeles AFB, CA.	Not Available
AD0441887	NOSE CAP DEVELOPMENT TESTS - FULL SIZE STRUCTURAL DEMONSTRATOR TESTS DYNA- SOAR	1/29/1964	U	[C - 02]	BOEING CO SEATTLE WA	[Esch, P. G.,Landry, B. E.,Swegle, A. R.]	110	[D2-80083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 JAN 1964. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0336522	PROGRAM 624A STANDARDIZED SPACE LAUNCH SYSTEM PHASE I TECHNICAL STUDIES. VOLUME II. VEHICLE DESIGN	3/1/1962	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Blackwell, A.,Blond, E.,Campbell, L.,Dahl, P.,Driskill, L.]	108	[DCAS-TDR- 930-2116-TR-1- VOL-2]	[TDR-930- 2116-TR-1- VOL-2,DCAS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 1962. Other requests shall be referred to Deputy Commander Aerospace Systems, Inglewood, CA.	Not Available
AD0430469	INDICATOR - ENERGY MANAGEMENT DISPLAY	2/6/1961	U	[C - 02]	BOEING CO SEATTLE WA	Not Available	43	[10-20925]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 06 FEB 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0446983	DYNA-SOAR MASTER DATA MEASUREMENTS LIST - VOLUME I - TABULATION	5/28/1962	U	[D - 16,23]	BOEING CO SEATTLE WA	[Howard, J. R.]	93	[DN-D2-7342- VOL- I]	[USAF]	Distribution authorized to DoD and DoD contractors only; Administrative/Operational Use; 28 MAY 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0347649	ENERGY MANAGEMENT ANALYSIS AND SIMULATION OF DYNA SOAR GUIDANCE DURING UNPOWERED FLIGHT	4/26/1961	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TEX	[Mann,D. L.,Schaezler,A. D.]	1	[AST E1R13419]	Not Available	Not Available	Not Available
AD0433994	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT. STATUS REPT. 1-31 MAY 63.	6/10/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	209	[DSR20]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432649	LEADING EDGES DEVELOPMENT - DYNA SOAR	6/25/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Bowers, D. A.]	395	[D2-80085- VOL. 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0459184	HYDRAULIC LEAK DETECTION BY RADIOACTIVE TRACERS	2/12/1963	U	[E - 04]	BOEING CO SEATTLE WA	[Papadopulos, Emmanuel]	45	[D2- 90373,IDEP- 347.65.00.00- C6-07]	[347.65.00.00- C6-07,USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 12 FEB 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0433564	ANALOG COMPUTER SIMULATION OF THE DYNA-SOAR GLIDER INTEGRATED ENVIRONMENTAL CONTROL AND SECONDARY POWER SUBSYSTEMS	3/29/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Cravens, E. W.]	323	[D2-80001-3- VOL-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 29 MAR 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0348309	SPECIFICATION FOR AIRBORNE RADIO SET X-20 (DYNA-SOAR) COMMUNICATIONS AND TRACKING SUBSYSTEM	7/17/1961	U	[C - 02]	RAYTHEON CO WALTHAM MASS	Not Available	1	[100]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL · 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0433922	DYNA SOAR NOSE CAP MECHANICAL PROPERTIES TESTING FOR DESIGN ALLOWABLES AND MATERIAL DATA,	12/5/1961	U	[C - 02]	BOEING CO SEATTLE WASH	[Edwards,R. G.]	14	[AST311 3]	Not Available	Not Available	Not Available
AD0431133	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. DATA REDUCTION PLAN FOR PRIMARY GUIDANCE SUBSYSTEM SLED TEST PROGRAM.	9/27/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	19	[1179SR20]	Not Available	Not Available	Not Available
AD0406643	THE INTEGRATE-TRANSFER- LAUNCH SYSTEM FOR TITAN III	1/1/1963	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CA	[Lamorte, James F.]	24	[63089]	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1963. Other requests shall be referred to National Aeronautics and Space Administration, Washington, DC.	Not Available
AD0342019	4 PERCENT SCALE 624A FORCE AND PRESSURE TEST POST-TEST REPORT, PHASE II	9/1/1963	U	[C - 02]	MARTIN CO DENVER COLO	[Olson,D.W.]	1	[SSD-CR63 120]	[CR63 120]	Not Available	Not Available
AD0311705	ESCAPE SYSTEM - PRELIMINARY DESIGN	10/10/1960	U	[E - 04,23]	BOEING CO SEATTLE WA	Not Available	152	[DN-D2-8017]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 10 OCT 1960. Other requests shall be referred to Research and Technology Div., Attn: (SENX-A), Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0431809	PRELIMINARY PROPULSION SUBSYSTEM TEST PROGRAM,	8/10/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Haney,R. W.]	19	[ER11361]	Not Available	Not Available	Not Available
ADB258211	Systems Applications of Materials	1/1/1967	U	[B - 03]	AIR FORCE MATERIALS LAB WRIGHT- PATTERSON AFB OH MATERIALS APPLICATIONS DIV	[Conrardy, Walter P.,Shinn, Donald A.]	289	[MAA-TM-65- 26-REV-1]	[AFSC]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Info.; Sep 2000. Other requests shall be referred to AFSC, Research and Technology Div., Wright-Patterson AFB, OH 45433	Technical memo.
AD0432545	EXTERNAL SURFACE SEAL DEVELOPMENT TESTS.	12/20/1963	U	[C - 02]	BOEING CO SEATTLE WASH	[Covey,James H.]	91	[D2-80876]	Not Available	Not Available	Not Available
AD0348635	DEVELOPMENT PLAN FOR THE NOSE CAP ASSEMBLY FOR THE DYNA-SOAR I GLIDER. VOLUME I	10/17/1960	U	[C - 02,23]	CHANCE VOUGHT CORP DALLAS TX	[Smith, Frank C.]	130	[AST/EOR- 12875]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 OCT 1969. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301. Document partially illegible.	Not Available
AD0288089	SKIN PANEL FLUTTER TEST, REFINE I, AD-375D-4, SPO=184	12/1/1962	U	[E - 04]	CALIFORNIA UNIV BERKELEY INST OF ENGINEERING RESEARCH	[MORTVEDT,R .L.,RICH,R.L.,W AGNER,R.T.]	1	[D2 80641]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0348205	DYNA SOAR - TITAN II 1/15-SCALE WIND-INDUCED OSCILLATION TESTS	1/1/1961	U	[C - 02]	MARTIN CO BALTIMORE MD	[Barsamian, V.]	60	[ER-11378]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 1961. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0373881	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 1 - SUMMARY	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	153	[LR-19334-VOL- 1,AFFDL-TR-66- 12-VOL-1]	[TR-66-12-VOL 1,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0340165	PRELIMINARY DESIGN OF A STAR TRACKING SUBSYSTEM FOR ORBITING VEHICLE GUIDANCE	11/15/1959	U	[C - 02]	NORTRONICS HAWTHORNE CA	[Laverty, N. P.]	61	[NORT-59-136]	[DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 15 NOV 1959. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
ADB268610	Coatings for Refractory Metals in Aerospace Environment	6/1/1964	U	[B - 03]	LOCKHEED MISSILES AND SPACE CO INC PALOALTO CA MATERIALS SCIENCES LAB	Not Available	63	[2-04-64-2]	[ASD]	Distribution authorized to U.S. Gov't. agencies only; Proprietary Information; Jun 1964. Other requests shall be referred to Directorate of Materials and Processes, Aeronautical Systems Division, AFSC, WPAFB, OH 45433.	Progress rept. no. 4, 1 Mar-31 May 1964

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0406535	DIRECT ELECTROLESS NICKEL PLATING ON ALUMINUM	10/2/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Shimizu, M.]	13	[MDR2- 15143,IDEP- 331.60.00.00- C6-02]	[331.60.00.00- C6-02,DOD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 02 OCT 1962. Other requests shall be referred to Department of Defense, Attn: Public Affairs Office, Washington, DC 20301.	Not Available
AD0311418	POSSIBLE FUTURE AIR FORCE INTERESTS IN ANTARCTICA	5/12/1958	U	[B - 03]	RAND CORP SANTA MONICA CA	[lkle, Fred C.]	27	[RAND/RM- 2197]	[AFRDC]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; MAY 1958. Other requests shall be referred to Deputy Chief of Staff, Research and Technology, USAF, Directorate of Development Planning, Project Rand Office, Washington, DC 20330.	Research memo.
AD0427564	AN ANNOTATED BIBLIOGRAPHY OF SPACE VEHICLE RE-ENTRY AND ASSOCIATED PHENOMENA (JANUARY 1956 MARCH 1963),	10/1/1963	U	[C - 02]	SPACE SYSTEMS DIV LOS ANGELES AIR FORCE STATION CALIF	[Schorsch,R. H.]	458	[SSD-TDR63 389]	[TDR63 389]	Not Available	Not Available
ADB182802	U.S. Aeronautics and Space Activities, Report to Congress from the President of the United States	12/31/1960	U	[C - 02,23]	NATIONAL AERONAUTICS AND SPACE ADMINISTRATIO N WASHINGTON DC	Not Available	197	Not Available	[NASA]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 DEC 1960. Other requests shall be referred to the National Aeronautics and Space Administration, Washington, DC 20546. Document partially illegible.	Annual rept. no. 3, 1 Jan- 31 Dec 1960

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0432616	NOSE CAP DEVELOPMENT - RADIANT HEAT TESTS	5/14/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Jensen, W. R.]	57	[D2-80083]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 MAY 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available
AD0435783	OPERATIONAL UTILIZATION OF THE WEATHER INFORMATION NETWORK DISPLAY (WIND) SYSTEM FOR PROPELLANT SPILLS WS 107A-2 TITAN II	3/3/1964	U	[E - 04,23]	TRW SPACE TECHNOLOGY LABS LOS ANGELES CA	[Hilbers, C. E.,Daubek, Hugh G.]	42	[BSD-TDR-64- 39]	[TDR-64- 39,BSD]	Distribution authorized to DoD only; Administrative/Operational Use; 03 MAR 1964. Other requests shall be referred to Ballistic Systems Division, Attn: Titan System Project Office BSD/BSTP, Inglewood, CA. Document partially illegible.	Not Available
AD0432620	FINAL DEVELOPMENT/VERIFICATION TEST PLAN - FULL SCALE DYNA SOAR NOSE CAP ASSEMBLIES	7/16/1962	U	[C - 02]	CHANCE VOUGHT CORP DALLAS TX	[Slay, R. C.]	28	[3- 14000/2R44]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jul 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0352314	STUDY OF MULTI-ORBIT CAPABILITY	9/28/1962	U	[E - 04,23]	BOEING CO SEATTLE WA	Not Available	506	[DN-D2-80736]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 28 SEP 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0392725	THE START PROGRAM AND THE SV- 5 CONFIGURATION. VOLUME 1. NARRATIVE	10/1/1967	U	[C - 02,X - 57]	SPACE AND MISSILE SYSTEMS ORGANIZATION LOS ANGELES AFS CA HISTORICAL DIV	[Vitelli, John]	269	[AFSC/SD- HISTORICAL- PUB-67-23-1]	[HISTORICAL- PUB-67-23- 1,AFSC/SD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Critical Technology; OCT 1967. Other requests shall be referred to Commander, Space and Missile Systems Organization (SAMSO), Attn: (SMSDI-STINFO) Los Angeles Air Force Station, CA 90045. This document contains export-controlled technical data.	Not Available
AD0360354	SECOND STAGE PROPELLANT LOAD AND PRESSURIZATION SYSTEM TRADE STUDY. DYNA SOAR STEP - 1	8/26/1960	U	[C - 02]	MARTIN CO BALTIMORE MD	[Laskin, E.]	81	[ER-11340]	[AFBMD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 26 AUG 1960. Other requests shall be referred to Air Force Ballistic Missile Div., Inglewood, CA.	Not Available
ADB279808	History of the Aeronautical Systems Division, July - December 1963. Volume III: Termination of the X-20A Dyna-Soar (Narrative)	12/1/1963	U	[F - 05]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[Geiger, Clarence J.]	54	[PUB-SERIES- 64-51-VOL-3]	[AFSC/WPAFB ]	Distribution: Further dissemination only as directed by Aeronautical Systems Div., AF Systems Comd., Wright-Patterson AFB, OH 45433, Dec 1963; or higher DoD authority.	Not Available
AD0432584	INSULATED PANEL DEVELOPMENT (DYNA-SOAR). PLASMA TUNNEL TESTS	6/25/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Smith, N. E.,Oakes, W. G.,Namatame, T.]	130	[D2-80080- SECTION-II]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 JUN 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0445143	SEPARATION AND EJECTION SYSTEMS OF FLIGHT VEHICLES: BIBLIOGRAPHY	7/1/1964	U	[C - 02]	LOCKHEED MISSILES AND SPACE CO INC SUNNYVALE CA	[Abbott, Helen M.]	54	[2-60-64-35/SB 64-14]	[NAVWEPS]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUL 1964. Other requests shall be referred to Naval Air Systems Command, Washington, DC 20362.	Special bibliography
AD0353193	DYNA-SOAR STEP IIA PLANNING AND ANALYSIS	7/25/1961	U	[C - 02]	BOEING CO SEATTLE WA	[Toomey, J. F.,Spear, E. E.]	260	[D2-8168]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 25 JUL 1961. Other requests shall be referred to Aeronautical Systems Division, Attn: ASZR, Wright-Patterson AFB, OH 45433.	Interim rept. no. 1
AD0352461	DYNA-SOAR STEP II PROGRAM PLAN (APPENDIX)	6/22/1962	U	[C - 02]	BOEING CO SEATTLE WA	[Bernstein, Lou,Israel, J. D.]	25	[D2-80490-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 22 JUN 1962. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
AD0248003	USSR: MISSILES, ROCKETS AND SPACE EFFORT. A BIBLIOGRAPHIC RECORD 1956-1960	9/28/1960	U	[C - 02]	DEPARTMENT OF THE ARMY WASHINGTON DC WASHINGTON United States	Not Available	54	[70-5-8]	Not Available	U.S. Government agencies and their contractors;Administrative or Operational Use;,28 Sep 1960.Other request shall be referred to Army Chief of Research and Development,Washington,DC,20310,Army Chief of Research and Development.	Technical Report

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0484213	MOL EXTRAVEHICULAR SPACE SUIT DATA BOOK	11/1/1964	U	[C - 02,23]	AEROSPACE CORP EL SEGUNDO CA EL SEGUNDO TECHNICAL OPERATIONS	[Swope, R. S.]	34	[TOR-469(5107- 45)-1]	[SSD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Nov 1964. Other requests shall be referred to Space Systems Div. (AFSC), Los Angeles, CA 90009- 2960., Availability: Document partially illegible.	Technical operating rept.
AD0440731	COMMENTS ON HEAT TRANSFER TESTING EXPERIENCE GAINED ON X- 20 PROGRAM	12/11/1963	U	[C - 02]	BOEING CO SEATTLE WA	[Gaz, J.]	36	[D2-80949]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 11 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330.	Not Available
ADB289423	Air Vehicle Technology Integration Program (AVTIP). Delivery Order 0001: Space Operations Vehicle Integrated Systems (SOVIS)	1/1/2002	U	[D - 16,26,X - 57]	LOCKHEED MARTIN AERONAUTICS CO FORT WORTH TX	[Tallant, Greg S.,Chowdhry, Rajiv,Buffingto n, James M.]	123	[FZM- 8744,AFRL-VA- WP-TR-2002- 3039]	[TR-2002- 3039,AFRL-VA- WP]	Distribution authorized to DoD and DoD contractors only; Critical Technology; Jan 2002. Other requests shall be referred to Air Force Research Lab., ATTN: VACC, Wright-Patterson AFB, OH 45433-7542., Availability: Hard copy only., This document contains export-controlled technical data.	Final rept. 1 Jan 2001-1 Jan 2002
AD0347834	CREW FACTORS DATA.	4/1/1959	U	[C - 02]	MARTIN CO BALTIMORE MD	Not Available	6	[SSE6]	Not Available	Not Available	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL- 3,AFFDL-TR-66- 12-VOL-3]	[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0401195	INTERMEDIATES FOR HIGH- TEMPERATURE STABLE POLYMERS	1/1/1963	U	[C - 02,23]	WYANDOTTE CHEMICALS CORP MI	[SZECSI, PETER,BEHUN, JOHN D.]	31	[ASD-TDR-63- 130]	[TDR-63- 130,ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1963. Other requests shall be referred to Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, OH 45433., Availability: Document partially illegible.	Not Available
AD0433924	X-20 (DYNA-SOAR) ACCESSORY POWER UNIT DEVELOPMENT STATUS REPORT.	7/10/1963	U	[C - 02]	SUNDSTRAND AVIATION- DENVER COLO	Not Available	68	[DSR21]	Not Available	Not Available	Monthly rept., 1-31 July 63.
AD0431135	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. LOGISTICS PLAN. REVISION C.	10/29/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	20	[1179SR2D]	Not Available	Not Available	Not Available
AD0433570	DEVELOPMENT OF INSULATED HYDRAULIC TUBING + SERVO WIRING ASSEMBLIES	12/17/1963	U	[C - 02,23]	BOEING CO SEATTLE WA	[Hosey, E. C.]	489	[D2-81096]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 17 DEC 1963. Other requests shall be referred to Department of the Air Force, Attn: Public Affairs Office, Washington, DC 20330. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0224527	Aviation and Cosmonautics	8/1/1963	U	[E - 04]	FOREIGN TECHNOLOGY DIV WRIGHT- PATTERSON AFB OH	Not Available	142	[FTD-ST-63-8]	[AFSC/WPAFB ]	Distribution authorized to DoD only; Administrative/Operational Use; AUG 1963. Other requests shall be referred to Foreign Technology Division, Air Force Systems Command, Wright-Patterson Air Force Base, OH.	Not Available
AD0355265	A BOOST GUIDANCE SCHEME FOR THE DYNA-SOAR MISSION,	12/27/1963	U	[C - 02]	AEROSPACE CORP EL SEGUNDO CALIF	[Schultz,P. R.,Soufl,R. V.,Grubin,C.]	130	[TDR269 4116 40 1,SSD- TDR63 336]	[TDR63 336]	Not Available	Not Available
AD0331897	TITANIUM TANKAGE PROGRAM. PHASE 1. ADVANCED TANKAGE CONFIGURATION STUDY. PHASE 2. TITANIUM TANKAGE DEVELOPMENT	10/1/1962	U	[C - 02]	AIR FORCE SYSTEMS COMMAND LOS ANGELES AFS CA SPACE SYSTEMS DIV	[MORITA, W. H.]	162	[STDTDE-62- 126]	[AFSC]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; OCT 1962. Other requests shall be referred to Air Force Systems Command, Edwards AFB, CA.	Not Available
AD0311707	WIND TUNNEL TEST PLANS	8/12/1960	U	[E - 04,23]	BOEING CO SEATTLE WA	[Brossard, J. J.]	274	[D2-6977]	[USAF]	Distribution authorized to DoD only; Administrative/Operational Use; 12 AUG 1960. Other requests shall be referred to Research and Technology Div., Attn: SENX, Wright- Patterson AFB, OH 45433. Document partially illegible.	Not Available

AD0373883	PRELIMINARY DESIGN OF HYPERSONIC HIGH L/D TEST VEHICLES. VOLUME 3 - TECHNICAL DISCUSSIONS	5/1/1966	U	[C - 02]	LOCKHEED- CALIFORNIA CO BURBANK	[Lloyd, J. T.,Ehrlich, C. F.,Guard, F. L.,Linneman, E. R.,Perlmutter, J. I.]	552	[LR-19334-VOL 3,AFFDL-TR-66- 12-VOL-3]	-[TR-66-12-VOL - 3,AFFDL]	Distribution: No Foreign without approval of Air Force Flight Dynamics Lab., Wright-Patterson AFB, OH 45433.	Final rept.
AD0311711	DYNA SOAR (STEP 1) COMMUNICATIONS AND DATA LINK	3/31/1961	U	[C - 02]	RADIO CORP OF AMERICA CAMDEN NJ DEFENSE ELECTRONIC PRODUCTS	Not Available	52	[CR-61-408-2- 2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 31 MAR 1961. Other requests shall be referred to AMC Aeronautical Systems Center, Wright Patterson Air Force Base, OH 45433.	Quarterly program progress rept. no. 1, 16 Dec 1960- 15 Mar 1961
AD0477374	STUDY OF LIQUID PROPELLANT BLAST HAZARDS	6/1/1965	U	[C - 02]	URS SYSTEMS CORP BURLINGAME CA	[Willoughby, A. B.,Goodale, T.,Wilton, C.,Mansfield, J.]	229	[URS-642- 19,AFRPL-TR- 65-144]	[TR-65- 144,AFRPL]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1965. Other requests shall be referred to Air Force Research and Technology Div. (AFSC), Wright- Patterson AFB, OH 45433.	Final rept.
AD0347730	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM	5/17/1963	U	[C - 02]	HONEYWELL INC ST PETERSBURG FLA	Not Available	99	[1179SR23]	Not Available	Not Available	Interim flight test rept., 14 Dec 62-6 May 63.

Highest Classification: Unclassified

## Highest Classification: Unclassified

## Collection: TR

Accession Number	Title	Report Date	Report Class	Distribution Codes	Corporate Author	Personal Authors	Page Count	Report Numbers	Monitor Series	Distribution Statement	Descriptive Note
AD0348207	MALFUNCTION DETECTION SYSTEM DESIGN STUDY. DYNA SOAR STEP-I	8/15/1961	С	[C - 09]	MARTIN CO BALTIMORE MD	[Cooke,C.]	1	[DS26 61rev. A]	Not Available	Not Available	Not Available
AD0324839	INTEGRATION TECHNIQUES FOR DEFENSE SUBSYSTEMS (U)	6/1/1961	S	[C - 09]	IIT RESEARCH INST CHICAGO ILL	[MURPHY,JOHN J.,SMITH,FRED B.]	1	[ASD-TR61 152]	[TR61 152]	Not Available	Not Available
AD0334311	FLIGHT SIMULATION OF ORBITAL AND REENTRY VEHICLES. PART 5 - SIMULATION OF AIRFRAME DYNAMICS FOR DYNA-SOAR TYPE VEHICLES	12/1/1961	С	[C - 09]	MICHIGAN UNIV ANN ARBOR	[Howe, R. M.]	52	[ASD-TR-61-171-VOL-5]	[TR-61-171-VOL-5,ASD]	Controlling DoD Organization: Aeronautical Systems Division, Attn: Behavioral Sciences Lab., Aerospace Medical Research Lab., Wright-Patterson AFB, OH 45433.	Not Available
ADC960439	Preliminary Simulation of the Dyna Soar System,	3/2/1959	С	[C - 09]	BOEING CO SEATTLE WA	[Butler, A.]	63	[D5-3699]	[USAF]	Controlling office: Dept. of the Air Force, Washington, DC.	Not Available
ADC051264	System Package Program (SPP) for Dyna-Soar System 620A. Revision.	5/14/1962	С	[C - 09]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	Not Available	213	Not Available	[ASD]	Controlling Office: Aeronautical Systems Div., Air Force Systems Command, Wright-Patterson AFB, OH.	Not Available
AD0352324	DYNA-SOAR STEP IIB STUDIES	7/14/1961	S	[C - 02,23,51]	BOEING CO SEATTLE WA	[Baskins, D. D.,Bernstein, L.,Dollard, J. F.,Israel, J. D.]	100	[DN,D2-80289]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 14 JUL 1961. Other requests shall be referred to Air Force Aeronautical Systems Division, Wright-Patterson AFB, OH 45433. Document partially illegible. Restricted Data.	Interim rept. no. 1
AD0352403	DYNA-SOAR STEP IIB STUDIES (APPENDIX)	12/20/1961	S	[C - 02,23,51]	BOEING CO SEATTLE WA	[Baskins, D. D.,Dollard, J. F.,Bernstein, L.,Israel, J. D.,Batley, W. G.]	776	[DN,D2 80289 3]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 DEC 1961. Other requests shall be referred to Air Force Aeronautical Systems Division, ASZRA, Wright-Patterson AFB, OH 45433. Document partially illegible. Restricted Data.	Interim rept. no. 2, 15 July-26 Dec 1961
AD0347852	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. CCN NO. 16 PROGRAM PLAN. VOLUME V. PART B	10/28/1963	С	[C - 09]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[R ED27120]	Not Available	Not Available	Not Available
AD0347964	SYSTEM PACKAGE PROGRAM (SPP) FOR X-20A (DYNASOAR) SYSTEM 620A	9/3/1963	С	[C - 09]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OHIO	Not Available	1	Not Available	Not Available	Not Available	Not Available
AD0328850	AN ANALYSIS OF SPACE-BOOSTER AND BALLISTIC-MISSILE RELIABILITY (U)	2/1/1962	S	[C - 09]	AERONAUTICAL SYSTEMS DIV WRIGHT- PATTERSON AFB OH	[ELLIS, RICHARD M.]	1	[TDR62 17]	Not Available	Not Available	Not Available
AD0352317	DYNA-SOAR STEP IIB STUDIES	6/20/1962	S	[C - 02,23,51]	BOEING CO SEATTLE WA	[Baskins, D. D.,Bernstein, L.,Israel, J. D.]	122	[DN-D2-80289-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; JUN 1962. Other requests shall be referred to Air Force Public Affairs Office, SAF/PAS, Washington, DC 20330. Document partially illegible. Restricted Data.	Summary rept.
AD0352321	DYNA-SOAR STEP IIB STUDIES (APPENDIX)	6/20/1962	S	[C - 02,23,51]	BOEING CO SEATTLE WA	[Baskins, D. D.,Dollard, J. F.,Bernstein, L.,Israel, J. D.]	710	[DN,D2 80289 3 VOL. 1]	[ASD]	Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; 20 JUN 1962. Other requests shall be referred to Air Force Aeronautical Systems Division, Wright-Patterson AFB, Oh 45433. Document partially illegible. Restricted Data.	Summary rept.
AD0364440	RECOVERABLE BOOSTER FOR ADVANCED DYNA SOAR	3/25/1959	С	[E - 04,23]	BOEING CO SEATTLE WA	[Kolve, I. A.]	34	[D7-2255]	[BSD]	Distribution authorized to DoD only; Administrative/Operational Use; Mar 1959. Other requests shall be referred to Ballistic Systems Div., Norton AFB, CA., Availability: Document partially illegible.	Not Available
AD0374912	COMPOSITE DESIGN RESEARCH PANEL. MINUTES OF MEETING (30TH) HELD APRIL 20 AND 21, 1960 AT MCDONNELL AIRCRAFT CORPORATION ST. LOUIS, MISSOURI.	1/1/1960	С	[B - 03]	JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS LAB	Not Available	269	[TG-60-31]	Not Available	Distribution: USGO: others to Commander, Naval Ordnance Systems Command, Washington, D. C. 20360.	Not Available
AD0333128	INTEGRATION TECHNIQUES FOR DEFENSE SUBSYSTEMS (U)	11/1/1962	С	[C - 09]	ARMOUR RESEARCH FOUNDATION CHICAGO ILL	[SMITH,FRED B.]	87	[ASD-TDR62 925]	[TDR62 925]	Not Available	Final rept.
ADC068520	Not Available	3/21/1958	S	[B - 03,51]	MCDONNELL AIRCRAFT CORP ST LOUIS MO	[Yardley, J. F.]	151	[MAC-6006-PT-2]	[USAF]	Distribution authorized to U.S. Gov't. agencies only; Administrative/Operational Use; Mar 1958. Other requests shall be referred to Air Research & Development Comd., USAF, Wright-Patterson AFB, OH 45433. Restricted Data	Not Available
AD0351791	X-20A (DYNA-SOAR) PRIMARY GUIDANCE SUBSYSTEM. VOLUME III	10/28/1963	С	[F - 05]	HONEYWELL INC ST PETERSBURG FLA	Not Available	1	[CCN16,R ED27120vol. 3]	Not Available	Not Available	Final technical rept.
AD0339858	OPERATION OF THE DYNA-SOAR SYSTEMS IN THE NATURAL AND ARTIFICIAL NUCLEAR ENVIRONMENT	4/15/1959	S	[E - 04,51]	BOEING CO SEATTLE WA	Not Available	165	[D5-4454]	[AFBMD]	Distribution authorized to DoD only; Administrative/Operational Use; APR 1959. Other requests shall be referred to Air Force Ballistic Missile Div., Inglewood, CA. Restricted Data.	Not Available
ADC079838	USAF Research and Development Quarterly Review, Summer 1960	1/1/1960	S	[E - 04,51]	AIR RESEARCH AND DEVELOPMENT COMMAND WASHINGTON DC	Not Available	115	[CO-01065]	[ARDC]	Distribution authorized to DoD only; Administrative/Operational Use; 1960. Other requests shall be referred to Air Research and Development Command, Washington, DC. Pre-dates formal DoD distribution statements. Treat as DoD only. Restricted Data. NOFORN.	Journal
AD0325074	Dyna-Soar Step 1. Communication System Analysis.	12/1/1961	С	[F - 05]	BOEING CO SEATTLE WASH	[MEERDINK,K.,ANDREIKA,J.]	1	[D2 8031 1]	Not Available	Not Available	Not Available

Highest Classification: Unclassified