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TI 202/6
15 September 1951
(Supersedes TI 17/2)

Inventory of
TECHNICAL
INFORMATION
ACTIVITIES

of the

DEPARTMENT
OF DEFENSE



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TI 202/6
15 September 1951
(Supersedes TI 17/2)

Inventory of
**TECHNICAL
INFORMATION
ACTIVITIES**
of the
DEPARTMENT OF DEFENSE

Prepared by
THE SPECIAL COMMITTEE ON
TECHNICAL INFORMATION

Approved:

Detlev W. Bronk

DETLEV W. BRONK,
Chairman.

The Department of Defense
RESEARCH AND DEVELOPMENT BOARD
Washington 25, D. C.

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FOREWORD

In January 1949, as one of its first undertakings, the Special Committee on Technical Information issued an *Inventory of Technical Information Activities of the National Military Establishment*, which was prepared by the Army, Navy, and Air Force members of the Committee. Subsequently, the Committee secretariat accumulated additional information and issued a second edition of the Inventory in May 1950. These were distributed throughout the Department of Defense and other government agencies which sponsor research and development activities.

In an effort to increase the usefulness of the publication, the Committee is issuing this third edition of the Inventory for distribution to all research and development contractors of Department of Defense agencies as well as to the agencies themselves. The Committee hopes that this publication may prove to be a useful working tool for those who are faced with problems of locating and obtaining specific items of technical information.

The integrated Armed Services Technical Information Agency (described in section 2), which will soon be in operation, represents a long step toward ready accessibility of the technical information resulting from the Defense Department's entire research and development program. The Agency will maintain a centralized depository and catalog of reports of Defense agencies and their contractors in all fields of science and technology, and will provide an abstracting service covering these reports. This Department-wide service will be supplemented by the work of the smaller, specialized information centers and libraries listed in this report. Working closely with scientists, these groups provide essential services for their respective agencies by giving detailed, immediate, local, and expert reference assistance in specialized fields of science and technology.

Part of the undistributed stock of this third edition of the Inventory will be deposited with the Central Air Documents Office, UB Building, Dayton 2, Ohio, and the balance with the Navy Research Section, Library of Congress, Washington 25, D. C. Defense agencies and their research and development contractors may obtain additional copies from either organization on request.



DETLEV W. BRONK,

Chairman,

Special Committee on Technical Information.

15 SEPTEMBER 1951.

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1. TECHNICAL INFORMATION ACTIVITIES OF THE OFFICE OF THE SECRETARY OF DEFENSE

Agencies or centers which collect, organize, and disseminate scientific and technical information are normally associated with one of the three Military Departments or are administered jointly by the Departments. However, there are a number of technical information activities within the Office of the Secretary of Defense.

Research and Development Board (RDB)

The committees, panels, and ad hoc study groups of the RDB provide an extremely effective means for the exchange of technical information in their respective fields of interest. Each meeting, conference, or symposium is attended by Departmental members and representatives who are familiar with the pertinent portions of the research and development programs of their respective Military Departments; thus the Departments, as well as the RDB, are kept currently informed of the progress of research in any given field throughout the Department of Defense.

The RDB's Special Committee on Technical Information does not itself engage in the collection or dissemination of technical information. Its field of interest includes methods for the effective reporting, recording, reproducing, organization, and dissemination of information relating to research and development activity as it affects the Department of Defense; and the study and application of new methods and techniques to the problem of information organization and the promotion of active research in this effort. During the past year its efforts have been devoted principally to bringing about the establishment of the integrated Armed Services Technical Information Agency (described in section 2).

The Reports and Statistics Branch of the Resources Division, RDB, receives from the three Military Departments descriptions of all their current research and development projects. Such descriptions are submitted on Form 1A, of which Figure 1 is an example, and are classified and filed both by project number and by subject. The Branch also maintains complete files of summary progress reports on the projects. The title, technical and Master Plan (operational) classifications, project number, and fiscal, budget, and facilities data for each project are coded on IBM punched cards. It is thus possible for the Branch rapidly to correlate the project information in a number of ways. This collection of project information is maintained for the use of the committees and secretariat of the Research and Development Board. The Branch does not have sufficient per-

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sonnel to conduct searches for agencies outside the RDB; however, properly cleared individuals are admitted to the files.

The *Joint Army-Navy-Air Force Mailing List for the Distribution of Guided Missile Technical Information* is compiled by the Ad Hoc Subcommittee on the Army-Navy-Air Force Guided Missile Mailing List of the RDB Committee on Guided Missiles. Revisions are published every January, April, July, and September. The *List* authorizes the direct distribution of guided missile technical reports among Service laboratories and contractors engaged in research and development in the field of guided missiles. It gives the addresses of the individuals and agencies cleared to request and receive certain categories of guided missile technical information from the originating laboratories or contractors, either directly or in some cases via a specified military agency. The introduction to the *List* states that excess copies of guided missile reports that a contractor wishes to discard may be sent to the Central Air Documents Office, Dayton, Ohio.

Early in 1951, a Metallurgical Advisory Board was established within the National Research Council to function as a clearinghouse for metallurgical information from all government sources and to supply such information to the Research and Development Board.

Joint Intelligence Objectives Agency (JIOA)

The collection of technical intelligence documents that was formerly maintained by the Scientific Reports Division of the JIOA, Joint Chiefs of Staff, was transferred in August 1949 to the Central Air Documents Office (described in section 2).

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RESEARCH AND DEVELOPMENT PROJECT CARD (NEW-PROJECTS)		2. SEC. U	3. PROJ. NO. 8-76-04-002	
1. PROJECT TITLE FUEL STORAGE FIRE PROTECTION		4. INDEX NO. CETC No. 1150/208		
		5. REPORT DATE 14 Mar 50		
6. BASIC FIELD OR SUBJECT Fire Fighting		7. SUB FIELD OR SUBJECT SUB GROUP Fire Fighting T.O. SO-11		
8. COGNIZANT AGENCY Corps of Engineers	12. CONTRACTOR AND/OR LABORATORY Engr. Res. & Dev. Laboratories Fort Belvoir, Va.		CONTRACT/W.O.NO.	
9. DIRECTING AGENCY Engr. Res. & Dev. Division, MO, OCE				
10. REQUESTING AGENCY Office, Chief of Engineers	13. RELATED PROJECTS		17. EST. COMPL. DATES	
11. PARTICIPATION AND/OR COORDINATION Department of the Navy (C) Department of the Air Force (C)	14. DATE APPROVED 7 April 1950 by GSUSA		RES. DEV. July 51 TEST July 51 OP. EVAL. July 52 FY 18. FISCAL EST'S.	
	15. PRIORITY 2-A	16. MAJOR CAT.	50	18M
			51	56M
19. Supersedes Project Card No. 8-76-04-002, dated 30 Sept. 1947				
20. REQUIREMENT AND/OR JUSTIFICATION The essential requirement for gasoline and fuel oil in military operations makes it imperative that effective fire protection be provided at petroleum tank storage installations. This development will provide the means for insuring against a major loss of an essential military item of supply and thereby will substantially improve combat effectiveness.				
21. BRIEF OF PROJECT AND OBJECTIVE				
a. Brief:				
(1) Objective: This project is expected to develop foam application equipment for the protection of liquid fuel storage batteries and tank farms that will be adaptable to varying field conditions.				
(2) Military Characteristics:				
(a) Basic equipment to be foam making apparatus designed to inject foam in the storage vessels. The extinguishment to be with a very light dense fire resistant foam which, when applied, will cover the surface and thereby shut off the oxygen, the objective being to supply the smothering agent with the minimum amount of equipment and with the maximum effectiveness to assure that the agent will be applied without the necessity for personnel being exposed to flames. These installations to be supplemented as necessary by portable equipment.				
(b) The basic foam making equipment shall be designed so that it can be applied by standardized technique to the variety of conditions that will arise in the field.				
(c) This equipment is required for Air Transportability in Phase II of Airborne Operations.				
(d) The equipment shall be capable of satisfactory operation at any air temperature from $\neq 32^{\circ}\text{F}$ to $\neq 125^{\circ}\text{F}$ and while exposed to maximum solar radiation and shall be capable of safe storage at temperatures from -80°F (for periods of several days at a time) to $\neq 160^{\circ}\text{F}$ (for periods of at least four hours daily). For temperatures below $\neq 32^{\circ}\text{F}$, techniques shall be devised for protection against freezing as required.				
22. RDB	SN. ENG-560	FC.	IC&P.	X. I. C.

RDB FORM 1A, 1 APR 1947

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FIGURE 1.

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8-76-04-002

- (e) The pumping equipment shall be treated for the elimination of interference with radio communications in accordance with applicable Signal Corps specifications.
- b. Approach:
- (1) All systems of oil and fuel storage fire protection in common use today will be investigated. The type of equipment required will be selected from existing items or will be designed as necessary.
 - (2) Actual experiments in putting out tank fires will be carried out on scale models, using scaled protective apparatus until such time as the results of the experimenting with the models indicates the equipment, chemicals and techniques to be reasonably sound.
 - (3) After completion of scale model tests, full scale equipment will be the fire protection system for Theater of Operation tank farms systems.
 - (4) Liaison will be maintained throughout the development with the Department of the Navy and the National Petroleum Institute.
- c. Subtasks:
Not applicable.
- d. Other Information:
- (1) References:
 - (a) Memorandum from the Office of the Chief of Engineers to Commanding General, Army Service Forces, dated 11 July 1945, file SPENC (11 July 45), subject: "Development of Fire Protection of Oil and Fuel Storage and Supply Facilities", with 2 indorsements and 2 inclosures. The reference establishes a project for the development of Fuel Storage Fire Protection Equipment.
 - (b) JRDB Form 1A, dated 30 September 1947, Item No. 1150, CETC Meeting #180. This reference reported the project to the R&D Board.
 - (2) Discussion:
 - (a) \$157,000 has been expended on this project prior to F.Y. 1950. Service Test on a Generator, Foam, Skid Mounted, Liquid Type, Gasoline Driven, 2000 gpm Capacity, was approved 6 May 1949, for immediate procurement.
 - (b) This development will result in equipment and application techniques suitable for combating fires at liquid fuel tank storage facilities from single tank to multi-tank installations. It is anticipated that equipment of both the permanent and mobile types will be required depending on the size of the tank farm involved and also on the character of the fire, whether confined to the storage tank or, in case of tank rupture, within the dyke area. The foam producing equipment will be a multi-purpose unit which can be used as a component of a fixed fire protection system for any size petroleum tank farm installation and also a mobile unit for petroleum spill fire applications.
 - (c) Agencies interested in this project, in addition to the Corps of Engineers, with which liaison will be maintained, and which will be furnished copies of reports on the project are the Department of the Navy, Department of the Air Force.

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Figure 1 (Continued)

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RESTRICTED**2. JOINT TECHNICAL INFORMATION ACTIVITIES OF THE
MILITARY DEPARTMENTS****Armed Services Technical Information Agency (ASTIA)**

The Secretary of Defense, in May 1951, issued a directive establishing an Armed Services Technical Information Agency. This new Agency is to provide an integrated program of scientific and technical report services for the Department of Defense and its contractors and is to be formed by merging two existing services, the Central Air Documents Office at Dayton and the Navy Research Section at the Library of Congress. It will operate under the policy direction of the Research and Development Board and under the management control of the Department of the Air Force. The Agency will collect, index, catalog, and provide storage for scientific and technical reports of the Military Departments and their contractors and reports from certain other sources; will prepare and distribute digests and abstracts of the reports; and will provide bibliographical and reference services and copies of the reports on either a loan or retention basis. It will also coordinate the activities of local technical information services in the Department of Defense with its own activities. The precise mode of operation of the Agency and of the Washington and Dayton branches has not yet been worked out, and consequently the Agency will probably not be in operation for some months.

Central Air Documents Office (CADO)

This Office is located in the UB Building, Dayton 2, Ohio, and is attached for administrative purposes to the Air Research and Development Command, Department of the Air Force. However, the Navy's Bureau of Aeronautics and the Army also support the activity. CADO collects virtually all Air Force, Bureau of Aeronautics, and Army technical and scientific reports, as well as other domestic data. In addition, technical intelligence documents received by the Air Force Directorate of Intelligence and those formerly in the files of the Joint Intelligence Objectives Agency are deposited with CADO. This material is catalogued and indexed, and abstracts of the more recent classified reports are distributed via the *Air Technical Index* abstract cards. These abstracts are disseminated automatically to qualified recipients who have previously indicated interest in a particular field or fields, and copies of the full reports are supplied on request. Unclassified reports are sent to the Office of Technical Services, Department of Commerce, for abstracting and dissemination. CADO also publishes *Technical Data Digest*, an unclassified monthly journal, which contains feature articles on new developments and abstracts of articles of aeronautical interest that have appeared in the open literature. All reports on file at CADO are indexed on IBM cards, which are

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used to prepare "demand bibliographies" on request. The Office has also published: a *Joint Army-Navy List of Completed Translations* (1 October 1946, with supplements issued at irregular intervals); a *Desk Catalog of German and Japanese Air Technical Documents*, which covers thousands of documents obtainable from CADO on microfilm; and a *Selected Listing of Air Technical Publications* (June 1947). CADO maintains a Translation Coordination File, which today includes a record of more than 15,000 translations of foreign technical documents, and has published an *Accession List of Technical and Scientific Translations*, which lists some 6,000 available translations. This *List* is periodically brought up to date by the issuance of supplements. CADO will soon be merged with the Navy Research Section of the Library of Congress to form the Armed Services Technical Information Agency.

Solid Propellant Information Agency (SPIA)

This Agency, which is located at the Applied Physics Laboratory, 8621 Georgia Avenue, Silver Spring, Maryland, is supported by the Army, Navy, and Air Force. It serves as a focal point for technical information relative to solid propellants for guns, rockets, etc., and their explosive ingredients. Its files contain at least one copy of each security-classified document related to its field that the Agency has been able to locate—in all, some 13,000 American, British, and Canadian wartime and postwar reports. Any properly qualified and cleared person may use the files to conduct a literature search. Three types of bulletins are published as guides to the use of this collected information: list, abstract, and subject-index bulletins (the SPIA/L, SPIA/A, and SPIA/S series, respectively). The Agency also publishes loose-leaf manuals of data (the SPIA/M series), which are kept up to date. Technical papers (the SPIA/X series) are also published when the need arises. These include reproductions of out-of-print information and reports on work completed previously but not published. Most SPIA publications are classified CONFIDENTIAL.

Chemical-Biological Coordination Center

This Center, at the National Research Council, is supported by the Army, the Navy, the National Institutes of Health, and the American Cancer Society. Information on the biological action of chemical agents is collected and coded on punched cards in order to correlate biological effects with chemical structure. The cards on each agent are prepared in four different ways—to emphasize the animal used, the organ affected, the enzyme affected, and the action of the drug or chemical. The Center has in its files the information and reports collected by the former Insect Control Committee, which was first a part of the Office of Scientific Research and Development (OSRD) and later an NRC Committee. The Center issues a bimonthly series of mimeographed *Summary Tables of Biological Tests*, which are obtainable on a subscription basis. Single numbers

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may be purchased for 50 cents each. They contain the collected results of the tests conducted by the Center's screening agencies on compounds submitted to the Center by industrial firms, university laboratories, etc. A number of reviews covering specific topics and a report describing the Center's method of coding chemicals are available for purchase. From time to time, the Center also sponsors symposia on the correlation of chemical structure with biological activity. The data in the files of the Center are available to representatives of its sponsoring agencies and screening agencies and to authorized scientists upon request.

Deterioration Prevention Information Center

The Army, Navy, and Air Force jointly support this Center, located at the National Research Council, which collects information in its field from government agencies, industrial and academic institutions, the published literature, and patents. The *Prevention of Deterioration Abstracts* are published monthly (approximately 2,000 pages a year) and indexes are compiled annually. The volumes are in loose-leaf form and are classified under the following headings: biological agents; electrical and electronic equipment; fungicides and other toxic compounds; lacquers, paints, and varnishes; leather; lubricants; metals; miscellaneous; optical instruments and photographic equipment; packaging and storage; plastics, resins, rubbers, and waxes; textiles and cordage; and wood and paper. The subscription fee is \$50 a year, including binders and index guides. For an additional \$10 a year there is also available an *Advance List*, a monthly bibliography of all reports received by the Center. A file of information, now being compiled, on all compounds tested for fungicidal and bactericidal activity will permit the correlation of chemical structure with biological activity. The services of the Center are available for making literature searches for any agency of the Department of Defense.

Medical Records Section, Division of Medical Sciences, National Research Council

The work of this Section is supported in large part by Army, Navy, and Air Force contracts. Its files of reports include all those resulting from the medical research projects of the Army, Navy, Air Force, and Veterans Administration; the medical reports of the Civil Aeronautics Administration; the wartime reports of the OSRD's Committee on Medical Research; and an extensive collection of British medical reports. A card index to the reports is maintained, and microfilm copies of this index have been supplied to military medical laboratories.

Medical Sciences Information Exchange

The Exchange, which is operated by the National Research Council, is located in the Dupont Circle Building, Washington 6, D. C. It was established on 1 July 1950 and supersedes the Office of Exchange of Information, U. S. Public

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Health Service. It serves as a central clearinghouse for information on all current medical research projects supported by grants and contracts of government agencies and is financed by the agencies concerned (Atomic Energy Commission, Department of Defense, Public Health Service, and Veterans Administration). Similar information is collected from some 50 nonfederal organizations. Summaries of the research in progress are prepared by the investigators performing the work. More than 3,000 active research projects are recorded in the Exchange. The information, which is made available to authorized recipients, is indexed to show the subject of investigation, source and extent of support, and the institutions and investigators responsible for the work. The Exchange also collects information so far as possible on pending proposals for medical research projects.

Armed Forces Medical Publications Agency

This Agency, located in the Bureau of Medicine and Surgery, Department of the Navy, publishes the *United States Armed Forces Medical Journal*, which includes original scientific and professional articles, editorial comments on current professional literature of special interest, clinical notes, descriptions of new devices and instruments, abstracts of articles in medical periodicals, and notices and reviews of recently published books. It is prepared and edited jointly by the Army, Navy, and Air Force, with the position of editor-in-chief rotating among the three Departments. In like fashion, the Agency publishes the *Medical Technicians Bulletin*.

Arctic Roster and Bibliography Project

Under an Office of Naval Research contract, to which the Army and Air Force also contribute, the Arctic Institute of North America at Montreal, Canada, is preparing a comprehensive bibliography on the arctic and is compiling a roster of scientific, technical, and field personnel who have had firsthand expert knowledge of specific and little-known arctic areas. The bibliography will be published soon in five volumes and will contain over 20,000 titles and 106,000 cross references.

RDB Centralizing Activity for Shock and Vibration

This Activity at the Naval Research Laboratory, in accordance with an assignment of responsibility from the Research and Development Board, conducts quarterly symposia on behalf of the Board and in the common interest of the three Military Departments and serves as a center for the coordination and exchange of technical information in the field of shock and vibration. The Army contributes funds for the support of the Activity. Symposia proceedings are published and distributed in the quarterly *Shock and Vibration Bulletin*. The center also makes an annual nationwide survey of all known research and development in the field and has published two such surveys.

RESTRICTED**3. TECHNICAL INFORMATION ACTIVITIES OF THE
DEPARTMENT OF THE ARMY**

Existing technical information collection and distribution agencies of the Army include foreign intelligence activities and those concerned with domestic information.

Army research and development reports originate in the various technical service agencies, either as a result of contracts with civilian organizations or of research projects in Army laboratories. Each report is first screened locally by the appropriate agency to determine technical competence. Following this, the local agency prepares a distribution list based upon known related projects in other services and Departments and upon requests from other interested agencies. After the proposed distribution list is approved by the chief of the technical service concerned, the report is reproduced in the necessary quantity at the local installation and copies are mailed directly to all agencies on the approved distribution list. At each Service school, arsenal, laboratory, etc., periodic accessions lists are prepared covering all reports received in this manner from the various originating agencies. Such lists are distributed locally at each receiving agency. In some cases, additional abstract or digest journals are printed and distributed.

Foreign technical information is collected by military attachés and various other collection agencies in this country and abroad. The large volume of intelligence reports received by the Intelligence Division (G-2) of the General Staff is successively screened, evaluated, and condensed for reference purposes. Individual reports are disseminated on the basis of requirements submitted by the using agencies. Summaries, prepared in the Intelligence Division or in the technical services to condense the information available on each subject of current importance, are printed in pamphlet form and distributed to all interested agencies. For General Staff planning purposes, evaluated intelligence information is compiled into volumes, each containing a general brief coverage of the economic, political, military, scientific, and other aspects of a single nation.

The Army is now utilizing the services of the Central Air Documents Office (described in section 2) and is supplying copies of Army reports to that Office. The Army Classification Index for Technical Documents, which was developed by the Research and Development Group, Logistics Division, is being given a trial at CADO.

Collection and distribution agencies and facilities of the Army are described briefly in the following paragraphs.

RESTRICTED**Army Library**

The Army Library has an extensive collection of approximately 400,000 volumes and 1,600 periodicals on military science, military history, science and technology, law, and other subjects. Emphasis is placed on current materials necessary for the information of the Department of Defense, and special collections of military documents, technical reports, and captured enemy materials are maintained.

The Library publishes the *National Defense Review*, which is issued monthly in both RESTRICTED and CONFIDENTIAL editions and contains abstracts of current literature on military science, history, strategy, etc. It includes some abstracts of technical material as applied to military purposes.

G-2 (Intelligence), General Staff

The Reading Panel screens and distributes both technical and nontechnical intelligence information. Single-sheet summaries of all incoming reports are prepared by the originating agencies in the field, usually by the military attaché at a foreign post to accompany his full report. The summary sheets are distributed more widely than the complete documents.

G-2 publishes a monthly *Intelligence Review*, a classified publication which contains intelligence information of Army-wide interest. This journal is indexed semiannually in the *Intelligence Index*, also published by G-2.

The Intelligence Document Section maintains a complete collection of intelligence reports received by G-2 and all of the Army Intelligence studies and reports. This material is reproduced and disseminated, on request, to agencies authorized to receive it. It is catalogued and indexed according to the decimal classification system contained in the *Basic Intelligence Directive*, which serves also as a guide to collection agencies in the field.

G-4 (Logistics), General Staff

The Research Branch of the Research and Development Division, G-4, maintains a file of Army research and development statistical and progress reports. It has operated an experimental "Spectrum Analysis" project for the review and analysis of all phases of the Army research and development program by mechanical methods. Statistical and fiscal project information was punched on IBM cards with each project subdivided to show the portion of effort expended on each component item and technology of the project. Reports were compiled containing the results of this program analysis.

Office of the Chief of Military History, Special Staff

The General Reference Branch maintains an extensive collection of historical manuscripts prepared by Department of the Army agencies. An accessions list is prepared periodically for distribution.

RESTRICTED**Office of the Adjutant General**

The Office of the Adjutant General operates records centers in Washington, D. C., Kansas City, Missouri, and St. Louis, Missouri, to which all Defense agencies, except Navy agencies, periodically retire their noncurrent records that have continuing value. The Washington center, the Departmental Records Branch, now has such records of headquarters agencies for the World War II period and many records for the early postwar years, including technical and administrative reports and related correspondence of the military agencies engaged in research and development. The records are catalogued under organizational, geographical, functional, and other subject headings; guides to these records are prepared and disseminated; and reference service is provided to persons with authorized, written credentials. A two-volume handbook, *Federal Records of World War II*, published in 1950 by the National Archives and Records Service, contains a general description of the wartime collections in the three centers.

The German Military Documents Section maintains a collection of captured German army documents, including many of technical interest. The recently published *Guide to Captured German Records in the Custody of Department of the Army Agencies in Washington, D. C., and Vicinity*, dated April 1950 and classified RESTRICTED, contains a very good general description of the holdings of the Section.

Chemical Corps

The Technical Library at the Army Chemical Center, Edgewood, Maryland, has a comprehensive collection of books and reports on chemical warfare and military chemistry. Its index contains cross references on all types of chemical compounds, munitions, weapons, and other items of chemical warfare covered in the holdings of the Library. A monthly unclassified *Library Bulletin*, which is issued for limited internal distribution, lists the books received and contains references to items of interest in the current journals and other publications received in the Library.

The Chemical Corps Medical Laboratories Library, also at the Army Chemical Center, includes in its resources a large number of technical reports. Each of the currently issued reports has an abstract preceding the full report.

The Biological Laboratories Library at Camp Detrick, Frederick, Maryland, has an indexed collection of documents of significance to the Laboratories' research program.

Corps of Engineers

The Engineer School Library, Fort Belvoir, Virginia, is the professional reference library for the Corps of Engineers in general. Its resources include bibliographies on such subjects as dams, sand movement, petroleum pipeline engi-

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neering, arctic warfare, desert warfare, and military bridges. In addition to its collection of books and periodicals, the Library has a Manuscript Section which collects manuscripts and reports of a military and technical nature. The Library issues a periodic book-accessions list and publishes a *Weekly Periodical Index*, which indexes articles of interest to the Corps of Engineers appearing in periodicals received in the Library and some publications from other sources, such as reports of the Engineer School and experimental stations.

The Library of the Office of the Chief of Engineers is the working library for the Office, maintaining a collection of technical and scientific books, periodicals, and reports and issuing accessions lists periodically. It collects model studies and other reports bearing on the civil-works function of the Corps and also technical reports from the Engineer Research and Development Laboratories, as the need for them arises.

The Technical Intelligence Branch, Engineer Research and Development Laboratories, Fort Belvoir, Virginia, has four sections engaged in handling technical information: the Technical Library maintains a collection of technical and scientific books and periodicals and publishes a monthly accessions list; the Reports Section maintains a file of all reports published by the Engineer Research and Development Laboratories and reports received from the various test stations; the Technical Study Section reviews and distributes throughout the laboratories technical documents received from other agencies and also issues a weekly accessions list of these documents; the Motion Picture Section has a collection of films, which show the progress of various tests and of project work.

The Research Center Library of the U. S. Waterways Experiment Station at Vicksburg, Mississippi, maintains a collection of technical and scientific publications and extensive files on hydraulics and concrete, and issues periodic accessions lists.

The Library Branch, Army Map Service, maintains a collection of books, topographic maps, and intelligence documents. It issues, for very limited distribution, cards covering the intelligence documents received and accessions lists of books and maps.

An annotated bibliography on snow, ice, permafrost, and allied subjects is being prepared by the Science Division, Library of Congress, under contract with the Corps of Engineers. The search for material includes all pertinent literature, exclusive of fiction and travel.

Medical Service

The Army Medical Library has the largest reference collection in the United States covering the field of medicine and, in reality, serves as the national medical library. It publishes the monthly *Current List of Medical Literature*, which covers some 1,430 journals received in the Library. Each issue comprises a list of articles and an author and subject index. The indexes are cumulated annually, and a list of the journals covered is published annually. The *List* takes

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the place, in great measure and on a current basis, of the *Index-Catalogue of the Surgeon General's Library*, publication of which is being discontinued with the volume now in preparation.

The Research Branch of the Medical Research and Development Board, Office of the Surgeon General, has complete files of all medical research reports submitted by investigators under contract to the Army and by medical research installations of the Army. On the basis of these reports, the Branch prepares and publishes the semiannual progress reports which cover all Army medical research.

The Surgeon General has established a Committee of Consultants for the Study of Indexes to Medical Literature Published by the Army Medical Library. This Committee has been investigating the problems of medical indexing as they affect medical research and made the decision to discontinue publication of the *Index-Catalogue*. To assist the Committee in its work, a contract was established between the Surgeon General's Office and Johns Hopkins University, under which the Welch Medical Library is conducting a study of methods of organizing medical information.

Ordnance Corps

The Technical and Foreign Reports Section of the Ordnance Research and Development Division maintains a collection of all Army Ordnance technical reports and other reports of a technical nature that are of value to the research program of the Ordnance Corps. All reports currently received are indexed by subject and cross-referenced.

The Technical Information Section, Development and Proof Services, Aberdeen Proving Ground, Aberdeen, Maryland, provides technical report and reference service for the proving ground. It publishes a periodic accessions list for local use. Smaller reference units are maintained at other arsenals.

"Ordnance Technical Index of Environmental Factors" is the name of a project that has been established at Aberdeen Proving Ground to collect, organize, and make available, as required, copies of all information regarding environmental factors and their effects on ordnance matériel, field operations, and related matters. Information is collected from Army Ordnance reports, climatic tests at Ordnance testing stations, other Military Departments, libraries, universities, private organizations such as the Explorers' Club, and individuals with arctic, tropic, or desert experience. This information is abstracted and indexed with respect to type of information, materials and equipment, location, procedure used, and results obtained. A RESTRICTED loose-leaf bibliography (Part I) on the environmental factor "cold" was issued in 1950 and is being kept up to date by supplements. Part II will cover the environmental factor "heat" or desert testing.

Quartermaster Corps

The Research and Development Branch of the Military Planning Division has a technical library located at the Philadelphia Quartermaster Depot, a Technical

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Information Section at the Chicago Quartermaster Depot, and a Research Information Section in Washington, D. C. These three information activities together have a nearly complete collection of Quartermaster research and development reports. The Branch formerly maintained a file of abstracts of scientific articles of interest to the Office of the Quartermaster General. This file is still in existence and an attempt is now being made to bring it up to date. A quarterly activities report, prepared and distributed by the Technical Information Section in Chicago, outlines the unclassified projects on subsistence and packaging. The *Technical Progress Report*, issued semiannually by the Research and Development Branch, lists all current Quartermaster research and development projects, summarizes the progress on each, and also lists significant reports published on the projects, both research- and operational-type reports.

The Quartermaster Board at Camp Lee, Virginia, issues a *Quarterly Progress Report of Research and Development Projects*, which summarizes the results of engineering tests conducted by the Quartermaster Board.

The Advisory Board on Quartermaster Research and Development, which is located at the National Research Council and is supported by the Quartermaster Corps, receives copies of almost all Quartermaster research and development reports for distribution to appropriate committees of the Board. One copy of each report is kept on file in the Board offices, and a subject index to the collection is maintained.

The *Survey of Food and Nutrition Research in the United States, 1948 to 1949* (second edition) has been issued by the Committee on Survey of Food and Nutrition Research of the Food and Nutrition Board, National Research Council. This survey was partially supported by the Quartermaster Corps and the publication is obtainable from the Office of Technical Services, Department of Commerce, at a price of \$1.75. This present edition lists approximately 4,500 projects supported by some 650 organizations and approximately 6,000 persons who are engaged on the projects.

Signal Corps

The Signal Corps research and development program is conducted at the Signal Corps Engineering Laboratories, Fort Monmouth, New Jersey. The Library at Evans Signal Laboratory, Fort Monmouth, maintains a file of technical reports pertinent to Signal Corps interests including those reports prepared at Signal Corps Engineering Laboratories. The Library publishes regularly the following: *Technical Reports Index*, which is issued weekly in RESTRICTED and SECRET categories and contains abstracts of reports received; *Science Briefs*, which is issued twice a month, is unclassified and contains abstracts of periodical articles; and a *Library Bulletin*, an accessions list which is issued approximately three times every two months.

The Signal Corps Intelligence Agency publishes a SECRET *Signal Corps Intelligence Review*, which lists and cross-indexes, by appropriate subject headings,

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selected documents of technical and scientific content received by the Agency. From time to time, the publication may contain feature articles of particular interest to the Signal Corps.

Transportation Corps

The Transportation Corps assembles its current research project information into periodic progress reports.

Miscellaneous

All Service schools and boards, including Army Field Forces Boards, maintain libraries and collections of technical and other material relating to their fields of interest and provide local reference services in connection therewith.

RESTRICTED**4. TECHNICAL INFORMATION ACTIVITIES OF THE
DEPARTMENT OF THE NAVY**

Technical information may be considered a by-product of the Department of the Navy, since its production in the form of reports, publications, and manuals is incidental to the establishment and maintenance of naval forces to preserve the national security. The Department encourages as wide a distribution of general technical information as practicable through the publication of articles in the recognized scientific journals. Distribution of scientific reports, however, is based on a "need-to-know" policy, because of security restrictions and the high costs of reproduction and distribution.

The Office of Naval Research conducts basic research for the Navy with the objective of increasing the scientific and technical potential of the naval establishment. A part of its function is to supply the new knowledge needed to support existing development projects and to point the way for future effort. Except for a small fraction, the research program of the Office of Naval Research is unclassified and receives wide dissemination through publication in commercial journals.

Figures 2 and 3 graphically show the general flow of technical information within the Department of the Navy and clearly demonstrate the extensive cross-flow of technical data within the Departmental organization.

The large material bureaus of the Department plan and execute programs for the development of ships, aircraft, and equipment to meet requirements of the over-all program of the Chief of Naval Operations. The material bureaus are—

- Bureau of Aeronautics
- Bureau of Ordnance
- Bureau of Ships
- Bureau of Supplies and Accounts

Each bureau is charged with development as implied by the name, and this includes functional breakdowns in some fields; for example, in the fields of electronic applications, airborne radar, fire-control radar, or search and navigational radar. The bureau programs naturally produce much technical literature, and their organizations provide for its storage and dissemination, as indicated in the pages which follow.

The interchange of information between the bureaus of the Department is a free and constant flow. The bureau designation serves as a convenient division of the stock of technical information, i. e., Aeronautics for naval air information;

INFORMATION FLOW DEPARTMENT OF THE NAVY

REPORTS RECEIVED FROM:

U. S. Naval Engineering Experiment Station - Annapolis, Md.
David W. Taylor Model Basin - Carderock, Md.
Materials and Chemical Laboratories - Boston, Mass.
Material Laboratory - Brooklyn, N. Y.
U. S. Naval Boiler and Turbine Laboratory - Philadelphia, Pa.
Industrial Test Laboratory - Philadelphia, Pa.
Underwater Explosions Research Field Unit - Norfolk, Va.
Metallurgical Laboratory - Norfolk, Va.
Paint Laboratory - Norfolk, Va.
Foundry Control Laboratory - Norfolk, Va.
Chemical Laboratory - Norfolk, Va.
U. S. Navy Mine Countermeasures Station - Panama City, Fla.
Rubber Laboratory - Mare Island, Cal.
U. S. Naval Radiological Defense Laboratory - San Francisco, Cal.
U. S. Navy Underwater Sound Laboratory - New London, Conn.
U. S. Navy Electronics Laboratory - San Diego, Cal.
Navy Air Navigation Electronics Project - Patuxent, Md.

REPORTS RECEIVED FROM:

Naval Medical Research Institute - Bethesda, Md.
Naval Medical Research Laboratory - New London, Conn.
Naval Medical Field Research Laboratory - Camp Lejeune, N. C.
Naval Medical Research Unit 4 - Great Lakes, Ill.
Naval School of Aviation Medicine - Pensacola, Fla.
Naval Medical Research Unit 3 - Cairo, Egypt

REPORTS RECEIVED FROM:

Naval Research Laboratory - Washington, D. C.
Special Devices Center - Long Island, N. Y.
Underwater Sound Reference Laboratory - Orlando, Fla.

REPORTS RECEIVED FROM:

Naval Ordnance Laboratory - White Oak, Md.
Applied Physics Laboratory - Silver Spring, Md.
Naval Powder Factory - Indian Head, Md.
Naval Torpedo Station - Newport, R. I.
Naval Mine Depot - Yorktown, Va.
Naval Proving Ground - Dahlgren, Va.
Naval Aviation Ordnance Test Station - Chincoteague, Va.
Naval Ordnance Unit - Key West, Fla.
Ordnance Aerophysics Laboratory - Daingerfield, Texas
Naval Ordnance Plant - Indianapolis, Ind.
Naval Unit, White Sands - Las Cruces, N. Mexico
Ordnance Test Station - Inyokern, Cal.
Naval Gun Factory - Washington, D. C.

BUSHIPS

Ass't Chief of Bureau for
Research and Development
Progress Administration
Technical Intelligence
Technical Library
Ass't Chief of Bureau for
Administration
Publications Division

BUMED

Research Division
Publications Division
Public Information
Officer

ONR

Scientific Documents
Office

BUORD

Research and Development
Division
Administrative Division
Technical Library Branch
Publications Branch

BUDOCKS

Plans and Research Div.
Technical Intelligence
Section

BUS&A

Research and Development
Division

CNO

Office of Naval Intel-
ligence Technical
Intelligence Center

BUAER

Ass't Chief of Bureau for
Research and Development
Technical Data Division
Ass't Chief of Bureau for
Materials and Services
Publications Division

Hq. USMC

Public Information
Publications
R. & D. Section, Div. of
Plans and Policies

Public Information
Division of EXOS

REPORTS RECEIVED FROM:

Advance Base Proving Ground - Port Hueneme, Cal.

REPORTS RECEIVED FROM:

Technical Division Clothing Supply Office
U. S. Naval Supply R. and D. Facility

REPORTS RECEIVED FROM:

All Sources Used by Naval Intelligence

REPORTS RECEIVED FROM:

Naval Photographic Center - Anacostia, D. C.
Naval Air Material Center - Philadelphia, Pa.
Naval Air Test Center - Patuxent, Md.
Naval Parachute Experimental Unit - Lakehurst, N. J.
Naval Air Magnetics Laboratory - Lakehurst, N. J.
Naval Air Missile Test Center - Point Mugu, Cal.
Naval Air Development Station - Johnsville, Pa.

REPORTS RECEIVED FROM:

Amphibious Warfare Branch, ONR - Washington, D. C.
Marine Liaison Officers - Liaison
BuShips Electronics - Electronics

REPORTS RECEIVED FROM:

All Navy

SOURCES COMMON TO ALL-
•SHIPS AND STATIONS.
•GOVERNMENT AGENCIES.
•BUREAU CONTRACTORS.

OUTPUT COMMON TO ALL-
•SHIPS AND STATIONS
•WHO NEED.
•OTHER GOVERNMENT
•AGENCIES.
•CONTRACTORS WITH
•MILITARY WHO NEED.

PUBLIC

FIGURE 2.

UNCLASSIFIED

FLOW OF SCIENTIFIC INFORMATION

OFFICE OF NAVAL RESEARCH

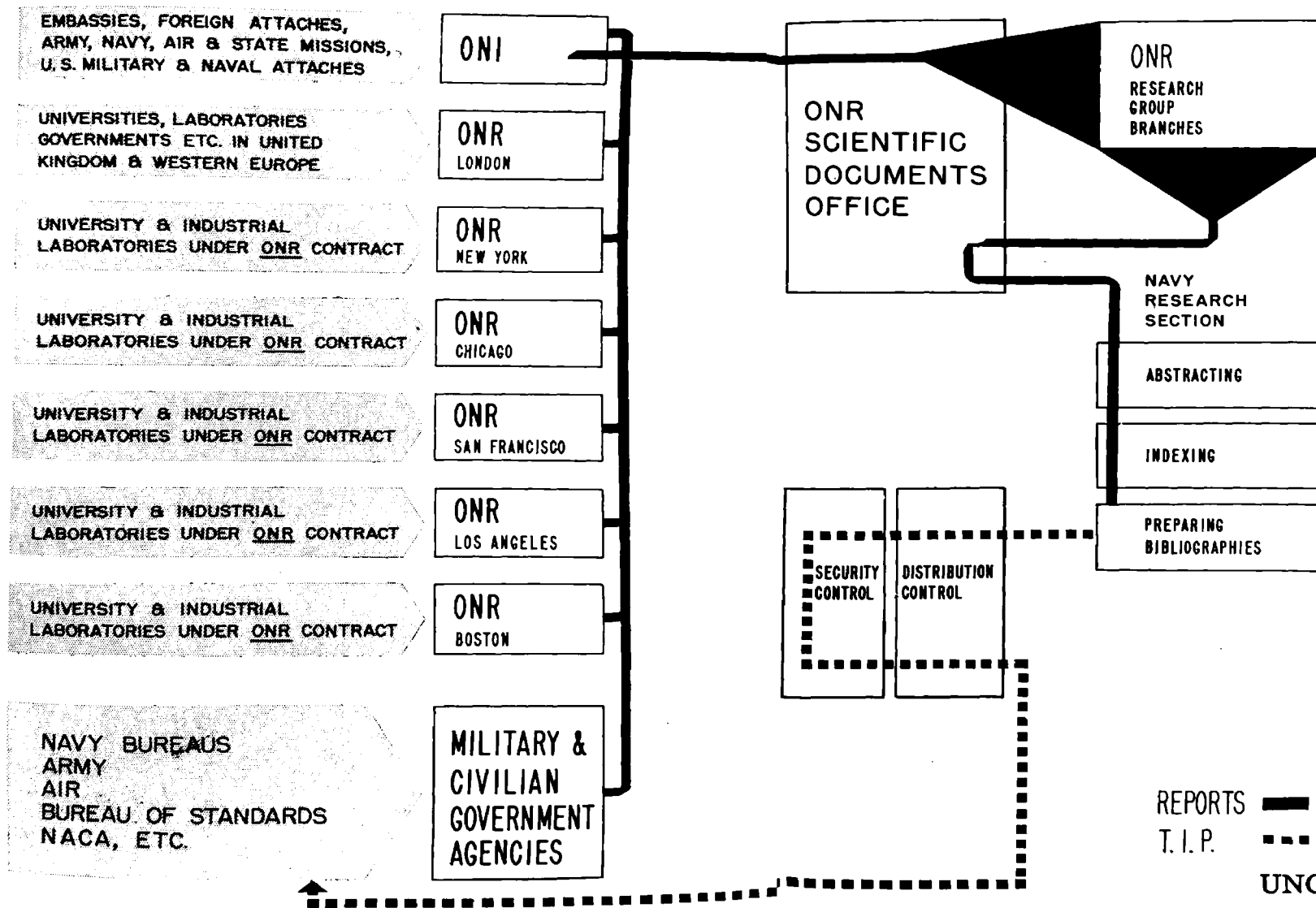


FIGURE 3.

UNCLASSIFIED

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Ships for machinery, hulls, and equipment; Ordnance for explosives and guns; Supplies and Accounts for clothing, food, and cargo handling equipment. Information under these broad categories is supplied by the bureaus, upon request, to interested persons and agencies.

The other bureaus are—the Bureau of Medicine and Surgery, which conducts medical research in a number of naval medical research laboratories; the Bureau of Naval Personnel, which conducts research in the fields of personnel administration, selection, and training; the Bureau of Yards and Docks, which has cognizance over shipyards and Navy shore facilities, and conducts some projects in this field of development.

Foreign technical information is handled in the Office of Naval Intelligence in a manner described briefly in the paragraph on the ONI.

Office of Naval Research (ONR)

ONR has been assigned the responsibility “to provide within the Department of the Navy a single office which, by contract and otherwise, shall be able to obtain, coordinate, and make available to all bureaus and activities of the Department of the Navy, world-wide scientific information and the necessary services for conducting specialized and imaginative research . . .”¹ In meeting this responsibility, ONR supports information services at its facilities, such as the Naval Research Laboratory and the Special Devices Center, and also has a number of contracts with outside organizations for the support of information activities. Among the contract activities is the Navy Research Section of the Library of Congress, which provides centralized technical information services for the entire Department of the Navy.

ONR publishes a classified *Monthly Research Report*, which summarizes progress on ONR research contracts and is distributed within the Department of Defense. The unclassified *Research Reviews*, published monthly, contain semi-technical articles summarizing research developments in various fields and are distributed to the Fleet, to colleges and universities performing basic research under ONR contracts, and to members of the Naval Research Reserve. Information on current developments in various digital-computer projects within the Department of Defense is published in an unclassified *Digital Computer Newsletter*, issued periodically and distributed to persons interested in this topic.

The Technical Information Division of the Naval Research Laboratory serves as the Laboratory's clearinghouse for both incoming and outgoing technical information and prepares the formal Laboratory reports. These reports include a classified monthly *Report of NRL Progress*, which summarizes significant progress on NRL projects, and individual research and development reports. A cumulative *Bibliography of NRL Published Reports*, which bears a security classification, is published at irregular intervals. The Division also issues the ONR

¹ Public Law 588, 79th Congress.

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publications mentioned above and has responsibility for the administration of some of the ONR contract information activities, such as the maintenance of document offices at Harvard and the Massachusetts Institute of Technology.

Scientists at NRL are encouraged to release the results of their fundamental research work to professional journals and to participate in and contribute to conferences, colloquia, and symposia on various research topics. Reports of these meetings are frequently published and distributed to other interested but nonparticipating scientists. Security and cost limitations are at all times observed.

Two abstract bulletins are published by the NRL Library, which is a part of the Technical Information Division. The *Library Bulletin*, published weekly for Navy-wide distribution, includes a list of accessions and abstracts of technical periodical articles of interest to Laboratory scientists from some 600 scientific and technical journals. The *Document Bulletin*, published semiweekly, contains abstracts of technical reports received at NRL; its unclassified section is distributed as a supplement to the *Library Bulletin*. Approximately 100,000 documents are classified, indexed, and on file at present in the library.

The Special Devices Center, Port Washington, New York, which is a facility of the ONR, receives reports and documents resulting from the research and development work of contractors to the Center and, in limited quantity, the reports covering research work by Center engineers and project supervisors. The Center provides information services in its special field of interest for its own project engineers and for Armed Forces activities and contractors. The *Index of Special Devices Publications* (NavExos P-530-A, issued 1 November 1949) and its periodic supplements list the Center's publications of the following categories: operation, installation, maintenance, and/or utilization manuals and spare-parts lists on various devices; special-devices bulletins, which describe new devices and changes in cognizance, contain obsolescence declarations, and offer miscellaneous information to the field; and publications which include catalogs of devices and theses on navigation, landfall techniques, and other similar subjects. The *Bibliography of Human Engineering Reports* (NavExos P-530-B, issued 1 November 1949) and its periodic supplements list the reports of contractors in the field of human engineering. A *Handbook of Human Engineering Data for Design Engineers* (NavExos P-643; Medford, Mass., Tufts College, 1951) gives easy access to such data.

The Navy Research Section (NRS) of the Library of Congress, which operates under an ONR contract, maintains a central storehouse of the technical information produced by the Navy. It is endeavoring to collect and catalog all scientific and technical reports issued by bureaus and agencies of the Navy Department and their contractors and also technical reports of interest to the Navy from outside sources. All technical bureaus are cooperating in an effort to send to the NRS two copies of each of their scientific reports. The NRS publishes an abstract journal entitled *Technical Information Pilot (TIP)*, which is issued in SECRET, CONFIDENTIAL, RESTRICTED, and unclassified editions. Each issue is indexed, and the indexes are cumulated quarterly.

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Catalog cards bearing abstracts of the reports covered by *TIP* are also disseminated widely. All current reports received by NRS are covered by this abstracting service except those marked by the bureaus to indicate that they should not be abstracted; reports so marked, which are deposited with NRS, are catalogued but are not included in *TIP*. Definitive bibliographies on specialized scientific or technical subjects are prepared at the request of ONR, and reference and loan service is provided to Navy agencies and contractors. A nearly complete collection of OSRD reports is available for reference and is being catalogued. NRS also prints and distributes the bulletin *European Scientific Notes*, which deals with European research of interest to ONR.

An experiment in the use of microcards is now being conducted. Microcard copies of unclassified and RESTRICTED reports are being distributed with the *TIP* cards in order to obtain some reasonably realistic "user" reaction to this type of microreproduction. The Documentation Research Unit of NRS is conducting or planning studies in microreproduction techniques, coding systems and their use in machine searching devices, and adaptation of facsimile and similar developments to remote "browsing" and to the recording of transmitted information. NRS is soon to be merged with the Central Air Documents Office to form the Armed Services Technical Information Agency described in section 2.

The Committee on Undersea Warfare, National Research Council, under an ONR contract, maintains an indexed collection of reports, most of them bearing security classifications, on many aspects of undersea and antisubmarine warfare. From time to time, its various panels prepare reports that are compilations of the most up-to-date scientific and technical information in their respective fields of interest. One such report is entitled "Human Factors in Undersea Warfare." Each year in May the Committee sponsors a two-day symposium, which brings together the leaders in its field for the purpose of exchanging information and discussing problems.

Under an ONR contract, the Research Analysis Group in the Physics Department of Brown University maintains a relatively complete collection of reports and documents covering the field of underwater sound.

The Document Office of the Research Laboratory of Electronics, Massachusetts Institute of Technology, is primarily a reference library of reports, journals, and books for the use of Laboratory members and others interested in the field of electronics. The present collection is an outgrowth of the Radiation Laboratory Document Room and is partially supported by the ONR.² The collection includes the most extensive files of wartime reports on radar in this country. During the past four years, the emphasis has been on acquiring material covering research in the broad field of electronics. The principal sources of reports currently received are the Signal Corps, the Air Matériel Command, the Office of Naval Research, and the Central Radio Bureau of the British Joint Services

² The ONR support is given for only one reason—to keep the document collection of the Radiation Laboratory together in order to protect the patent equity of the Government.

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Mission in Washington, D. C. The Office maintains subject, source, equipment, and author indexes to the reports. It also acts as a distribution center for the Laboratory's technical reports, quarterly progress reports, and reprints of journal articles by RLE authors. The *Document Office Bulletin*, which is published on alternate Fridays, lists and often abstracts the unclassified reports and books acquired during the previous two-week period. A list of classified reports is issued monthly. There is issued quarterly an informal, unclassified, cumulative list of all reports published by the Research Laboratory of Electronics.

The Document Office for Government Research Contracts, G16 Littauer Center, Harvard University, supported by an ONR contract,³ has an extensive collection of OSRD reports and currently receives from contractors of the ONR, the Air Force, and the Signal Corps technical reports in the fields of electronics, microwave research, nuclear physics, and underwater sound. The collection is maintained primarily for the use of research men working under an ONR contract; however, on clearance through ONR, other Service representatives are permitted the use of the document room for study, and some graduate students are permitted to use the unclassified reports. An accessions list of atomic energy reports is distributed every month, for local use only, to the Nuclear Laboratory and Physics Department, Harvard University. A monthly general accessions list of electronics reports is distributed to group leaders and directors of projects at Harvard.

Under a contract with ONR, to which the Atomic Energy Commission has also contributed, the National Research Council is preparing and publishing a *Glossary of Terms Used in Nuclear Science and Technology*. This is being published in nine sections, six of which have already appeared. The ONR contract covers only the preparation of the glossary. The sections are published by the American Society of Mechanical Engineers, which bears the publication costs and sells the volumes at cost. It is expected that, after wide review and revision, the nine sections will be combined into a single volume.

The Psycho-Acoustic Laboratory of Harvard University, under an ONR contract, has compiled a two-volume bibliography on audition, which includes some 5,500 titles. The topical index to the bibliography has six major headings: basic references, the anatomy of the ear, the physiology of the ear, the psychology of hearing, deafness, and theories of hearing. The principal abstracting journals relied upon were *The Journal of the Acoustical Society of America*, *Psychological Abstracts*, and *Index Medicus*. A limited number of copies are available from the Harvard University Press, Cambridge, Massachusetts, at a price of \$3 for the two volumes.

Under an ONR contract, to which the Bureau of Aeronautics and Bureau of Ordnance also contribute funds, the Ohio State University Research Foundation

³ This Office is supported by ONR for only one reason—to keep the document collection of the Radio Research Laboratory together in order to protect the patent equity of the Government.

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is making a comprehensive survey of the literature on nitro aliphatic chemistry, including the classified documents on the subject. Abstracts of all pertinent articles and reports are being prepared and will be organized into serialized sets of volumes. A code is being developed, and IBM cards and equipment will be used for mechanical sorting of the material by subject matter. The supplemental text, which will cover the classified literature, will eventually be published by the Office of Naval Research.

Office of Naval Intelligence (ONI)

This Office collects and evaluates intelligence information, including technical and scientific intelligence, and disseminates it to appropriate naval bureaus for further evaluation and study. It publishes *The ONI Review*, a monthly classified journal, which occasionally contains articles of technical interest. It also publishes *Abstracts of Technical Intelligence Documents*, which is issued irregularly in different security classifications and covers all technical intelligence reports received by the technical intelligence unit of ONI.

Hydrographic Office

The Hydrographic Office has available for distribution "Circular No. 3," which gives information regarding the navigational books and charts published and sold by the Office, and has published a RESTRICTED *Index Catalog of Nautical Charts and Publications*. The Office also serves as a central clearinghouse, coordinating agency, and depository for all scientific hydrographic and mapping data obtained on Operation HIGHJUMP. This includes much polar information in the geophysical sciences of meteorology, oceanography, seismology, geodesy, cartography, etc.

The Division of Oceanography of the Hydrographic Office maintains classified and unclassified card indexes to published and unpublished material on oceanography and allied sciences. The indexes are arranged by geographic areas and subjects; reference service is available to other Navy agencies. The Division of Chart Construction has a file of documents on world-wide surveys, trigonometrical data, survey reports, and attaché reports giving geodetic information and has a card index on survey information and geodetic control data.

The Hydrographic Office Library has an extensive collection of books, periodicals, and documents, which emphasize foreign sailing directions, navigation, oceanography, meteorology, chemistry, marine biology, cartography, photogrammetry, arctic and antarctic expeditions, and related subjects. It publishes an accessions list about every 10 days, which is available to government and scientific libraries upon request.

The Woods Hole Oceanographic Institution has a number of contracts with the Navy Department to assemble and analyze oceanographic data, primarily on the Atlantic Ocean. It keeps duplicate files of all bathythermographic information submitted to the Hydrographic Office. A card index is maintained in the library

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of the Institution for published documents and for manuscripts prepared at the Institution. In connection with an ONR contract covering the assembly and analysis of data on the marine biology of the Pacific Ocean, an up-to-date bibliography on Pacific oceanography is maintained on cards, and a dictionary of Japanese oceanographical terms has been published.

The Scripps Institution of Oceanography also collects and submits oceanographic information to the Hydrographic Office and keeps duplicate files of such information, primarily on the Pacific and Indian Oceans. It maintains an extensive library of oceanographic publications.

Bureau of Aeronautics

The Technical Information Branch of the Technical Data Division has two sections which provide reference service for the Bureau of Aeronautics. The Library Section has available for the use of the Bureau a collection of scientific books and periodicals. The Bibliographic Research Section maintains a collection of technical reports (most of them classified), including the reports covering the Bureau's research and development program and many reports of interest to the Bureau received from other sources, and prepares brief abstracts covering the engineering content of reports received or of portions of those reports applicable to the work of the Bureau. These abstracts are classified by subject and are used for bibliographic reference services.

The Publications Division of the Bureau issues annually in April the *Naval Aeronautics Publications Index*, with cumulative supplements every month. It is classified RESTRICTED and lists all publications, such as Technical Notes, Technical Orders, bulletins, etc., issued by the Deputy Chief of Naval Operations for Air and the Chief of the Bureau of Aeronautics. It does not list technical reports on the Bureau's research program.

Bureau of Medicine and Surgery

The Research Division of the Bureau maintains a complete file, arranged by project, of all reports issued by naval medical research laboratories.

The Library of the Naval Medical Research Institute, Bethesda, Maryland, receives copies of all reports covering the research work at the Institute and many reports issued by other naval medical research facilities. RESTRICTED accessions lists are prepared for distribution throughout the Institute.

Bureau of Ordnance

The Technical Library Branch of the Administrative Division has a collection of books, periodicals, and documents relating to ordnance, mechanical engineering, ballistics, applied mathematics, physics, and chemistry. The documents collection consists of approximately 80,000 domestic and foreign reports (largely classified), including reports issued on research contracts of the Bureau

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of Ordnance. The foreign collection is chiefly from British sources, but includes captured German and Japanese documents from World War II. A weekly accessions list is issued for internal distribution only.

The Publications Branch issues annually in September an *Index to Ordnance Publications*, which lists the official publications of the Bureau. It does not include research reports. A separate index to the research (NAVORD) reports is in preparation.

The Library Division of the Naval Ordnance Laboratory, White Oak, Silver Spring 19, Maryland, receives each month approximately 1,250 reports, which include Naval Ordnance Laboratory reports and also reports from the Bureau's field stations and the various research organizations having contracts with the Bureau. The collection now consists of some 100,000 reports; whenever possible, two copies of each report are retained for reference purposes. The reports are catalogued and disseminated by the Library to interested persons at the Laboratory. Accessions lists are issued weekly to members of the Laboratory staff.

The Reports Office of the Applied Physics Laboratory (8621 Georgia Avenue, Silver Spring, Maryland), which is supported primarily by the Bureau of Ordnance, has an extensive collection of guided missile reports, both domestic and foreign. Subject, author, and source indexes are maintained, and a monthly accessions list is prepared and distributed to laboratories and persons who are cleared to receive guided missile information. The Office publishes the BUMBLEBEE series of reports and issues an annual index to these reports.

The Library of the Applied Physics Laboratory, supported by the Bureau of Ordnance, has a specialized collection of books, periodicals, and unclassified documents pertaining to the various phases of guided missile research—aerodynamics, electronics, ballistics, rocketry, etc. Its *Weekly Bulletin*, which is distributed to Laboratory personnel and interested government agencies and research organizations, announces new acquisitions and contains a selected reading list of current articles related to the Laboratory's research activities.

The Guided Missiles Library, Project METEOR, Massachusetts Institute of Technology, has a complete collection of the guided missile reports which have been distributed to the "C" list contractors on the *Army-Navy-Air Force Guided Missile Mailing List*. "METEOR" is the name given to the guided missile program at MIT, which is supported by the Bureau of Ordnance. The Library exchanges information and reports with other groups at MIT and outside agencies that are cleared for such information. It issues a RESTRICTED weekly accessions list for distribution within Project METEOR. From August 1946 to August 1949, the Library issued a monthly abstract bulletin, *Abstracts of Reports on Guided Missiles*, covering the reports available in the Library.

Bureau of Ships

The Technical Library, in the Research and Development Planning Division, has an extensive collection of reference volumes and periodicals relating to

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marine, mechanical, and electrical engineering, naval architecture, navigation, electronics, chemistry, mathematics, physics, and nuclear physics. It also serves as the depository in the Bureau for the reference and loan copies of all technical reports pertaining to the Bureau's research program and other reports of interest to the Bureau. Weekly accessions lists, entitled the *Bureau of Ships Technical Library Bulletin*, which are classified CONFIDENTIAL and RESTRICTED, are prepared for distribution throughout the Bureau and Bureau field activities.

The Publications Division of the Bureau publishes an *Index of Bureau of Ships General and Electronics Publications*, listing all engineering, electronics, and general publications of the Bureau. The latest *Index*, NAVSHIPS 250-020, was issued 1 August 1950, and "Change 1" to the *Index*, NAVSHIPS 250-020-chg 1, was issued 1 August 1951. The *Index* does not include research and development reports.

Industrial Notes is the name of a technical publication issued by the Bureau approximately every 25 days. Its purpose is to disseminate widely news and information concerning modern industrial shop techniques and to assist supervisory personnel and shopmen to better understand modern production methods, improved care and maintenance practices, and methods for increasing the accuracy of workpieces and for meeting other similar shop problems. It is distributed to all shops in naval shipyards, repair ships, bases, air stations, ordnance plants, and other facilities and centers. Material for the publication is obtained primarily from surveys at shipyards and industrial activities. Data from manufacturers' house organs, trade journals, and other publications, such as reports from naval establishments and from research laboratories, are also collated and incorporated. Bibliographies on specific topics are frequently included in the bulletin.

At the David W. Taylor Model Basin, there is a main Technical Library which handles unclassified and RESTRICTED reports; a Classified Library, which handles CONFIDENTIAL and SECRET material; and an Aerodynamics Branch Library. A *Catalog of David W. Taylor Model Basin Publications*, TMB Report C-150, classified CONFIDENTIAL, was issued in August 1948. It covered the Model Basin's reports up to June 1948. Supplements were issued in September 1949 and February 1951, covering the reports to July 1949 and September 1950, respectively, and another supplement is planned for the latter part of 1951. In addition, quarterly lists of publications are issued. The most recent *Catalog of David W. Taylor Model Basin Unclassified Publications*, TMB Report 597, was issued in February 1951 and covers reports to 30 September 1950.

The services of the U. S. Navy Electronics Laboratory Library, San Diego 52, California, are primarily intended for the use of the Laboratory personnel. However, material is occasionally loaned to other research and development laboratories, military contractors, university libraries, and other libraries in the area. An informal RESTRICTED list of recent library acquisitions is prepared weekly for the use of Laboratory personnel only. The Library prepares abstracts on catalog cards for insertion in each technical report issued by the

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Laboratory. At the end of each calendar year, the Laboratory prepares and issues the *NEL Technical Review* (SECRET), which includes abstracts of reports issued by the Laboratory during that year.

Bureau of Supplies and Accounts

This Bureau produces technical literature pursuant to its research and development program in the fields of clothing, food, supply engineering (materials and cargo handling, packing, packaging, and preservation), and logistics. This literature may be obtained by addressing the Director, Research and Development Division (Code OW), Washington 25, D. C.

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5. TECHNICAL INFORMATION ACTIVITIES OF THE DEPARTMENT OF THE AIR FORCE

Domestic technical information is produced by Air Force laboratories and by contractors who conduct research and development investigations for the Air Force. Their reports may vary from detailed analyses of entire projects to brief monthly or semiannual reports of progress. This type of technical information is made available to those agencies that have an official interest in it.

Foreign technical information is collected primarily by air attachés and by technical representatives abroad. It is also collected through the cooperative aid of various other collection agencies both abroad and in the Zone of the Interior. The handling of this type of information is discussed in this *Inventory* under the heading "Directorate of Intelligence."

Several years ago, the Air Force established the Air Documents Division at Wright-Patterson Air Force Base, which served as a documentation center for all Air Force technical reports, documents, and other technical material of interest to the Air Force collected from other sources. In October 1948, it became a joint activity of the Air Force and the Navy Bureau of Aeronautics and was renamed the Central Air Documents Office (CADO). Later, the Army made arrangements to participate in the activity. CADO is described in section 2 of this *Inventory*.

Other major technical information activities of the Air Force are described in the following paragraphs.

Office of the Air Adjutant General

The Air Force Administrative Reference Branch, Mail and Records Division, serves offices of Headquarters, USAF, Air Force field activities, and other government agencies with documentary reference and research assistance on the general subject of aviation and on administrative, technical, current, and historical matters pertaining to Air Force activities. It does not have sufficient personnel or facilities to extend its service beyond government agencies. Its collection consists of approximately 30,000 official documents and periodicals, covering the various phases of military aeronautics. Indexes, guides, and catalogs are maintained in servicing the collections of records in Headquarters, USAF, offices of record, and record depositories.

Directorate of Intelligence

The Documents and Dissemination Branch of the Collection Division receives for the Department of the Air Force intelligence documents from all sources

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and disseminates Air Force intelligence to all agencies which need it and are cleared to receive it. Technical intelligence documents are forwarded to the Air Materiel Command and are, for the most part, deposited with the Central Air Documents Office. The Branch also prepares and publishes the monthly *Air Intelligence Digest*, a classified publication for limited distribution, which includes material of technical interest.

The work of the Air Information Division, Library of Congress, was initiated by the Collection Division, Directorate of Intelligence, and is supported by an Air Force contract. Its purpose is to exploit the large volume of open-source, Slavic material that has accumulated in the Library of Congress and in other libraries. A number of persons who are able to read Slavic languages are engaged in looking over the collected periodicals, newspapers, and monographs and in abstracting and translating information that is of primary interest to air intelligence but also serves other intelligence activities of the Federal Government. In addition, a series of bibliographies is being prepared on various fields to summarize all known available publications in each field.

Office of the Surgeon General

The Technical Information Branch, Medical Research Division, maintains a file of all Air Force medical research reports; namely, those of the Aero Medical Laboratory at Wright-Patterson Air Force Base, the School of Aviation Medicine at Randolph Air Force Base, and the Arctic Medical Laboratory at Ladd Air Force Base, Alaska. The reports are indexed by subject, by author, and by project number. A card catalog is also maintained of all professional papers prepared for publication in the open literature by Air Force medical investigators.

Directorate of Flight Safety Research

This Directorate, located at Norton Air Force Base, San Bernardino, California, as part of its aircraft accident prevention program prepares, publishes, disseminates, and maintains a file of technical documents pertaining to flight safety in the Air Force.

Arctic, Desert, Tropic Information Center

This Center, at the Air University Research Studies Institute, Maxwell Air Force Base, Alabama, collects, catalogs, and makes available for reference purposes all arctic, desert, and tropic information currently being compiled in federal and civilian research agencies. The information collected is scientifically evaluated and collated with other information bearing on Air Force activities and operations in the nontemperate areas. The Center writes, edits, and publishes information concerning arctic, desert, and tropic areas and disseminates the published material to requesting agencies.

RESTRICTED**Air Force Libraries**

The Air Force Libraries listed herein have specialized scientific collections. The fields covered by most of them are indicated by their names.

Radio Physics Library

Air Force Cambridge Research Laboratories

230 Albany Street

Cambridge, Massachusetts

Geophysical Research Library

Air Force Cambridge Research Laboratories

230 Albany Street

Cambridge, Massachusetts

USAF School of Aviation Medicine Library

Randolph Air Force Base, Texas

Patrick Air Force Base Library

Cocoa, Florida

(This new library for the long-range proving ground is in the process of assembling a collection of books and documents.)

Watson Laboratories Library

Red Bank, New Jersey

(Field of communications)

Special Weapons Command Library

Kirtland Air Force Base, New Mexico

(Field of atomic energy)

The Air University Library, Maxwell Field, Montgomery, Alabama, has a virtually complete collection of all Air Force reports and documents. It issues two accessions lists at frequent intervals: *The List of Selected Accessions—Books* and *The List of Selected Accessions—Documents*. It also publishes a quarterly journal entitled *Periodical Index*, which is a subject index to articles contained in a group of 24 periodicals, largely military, the majority of which are not indexed in commercially published index services. These particular journals were selected because they contain articles most often needed by the students, staff, and researchers of the Air University. The first issue covered October to December 1949.

The Technical Library, Wright-Patterson Air Force Base, Dayton, Ohio, has one of the largest collections of aeronautical literature in the United States and, in addition, possesses extensive collections of material in the fields of aeromedicine, strength of materials, and electronics. It has a complete file of all Air Force technical reports and a large collection of technical reports from other sources. Its collection includes the complete *Luftwaffe* file on airplanes—some

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80 volumes of photographs and specifications describing in detail every known airplane up to the early 1940's. The Library publishes a bimonthly annotated accessions list, entitled *The Book Shelf*.

The Air Proving Ground Command Library, Eglin Field, Florida, accumulates and disseminates technical reports prepared as a result of Air Proving Ground Command activities. It has an extensive file of Air Force and other research and development reports.

The Research Library, Human Resources Research Center, Lackland Air Force Base, San Antonio, Texas, has a collection of books and periodicals concerning personnel selection and classification, proficiency measurement, training methods, perceptual and motor skills, human relations and morale, etc. and also maintains voluminous reference files of reports from military and civilian research organizations, photoprints of pertinent articles from magazines and books, military and commercial tests of aptitudes, intelligence and personality components, and other source materials valuable to the research activities of the Center.

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6. TECHNICAL INFORMATION ACTIVITIES OF OTHER AGENCIES

The following technical information activities of other government agencies and of one nongovernmental organization are of particular interest to Department of Defense agencies.

Atomic Energy Commission (AEC)

Complete indexed collections of all AEC scientific and technical reports are maintained by the Technical Information Service in the Washington and Oak Ridge offices. Nearly complete collections are available at all the AEC's major laboratories. In addition, complete indexed collections of all nonsecret AEC scientific and technical reports are maintained at 40 libraries strategically located throughout the United States. There are approximately 3,500 reports in a full set and about 1,500 new reports are issued every year. The AEC also furnishes to each of the depository libraries a card-catalog index to the reports.

Nuclear Science Abstracts, published semimonthly, covers all declassified and unclassified AEC reports and also covers, as extensively as possible, both foreign and domestic publications pertaining to nuclear science. Each issue is indexed, and a cumulative index for all issues is prepared for each semiannual volume. The *National Nuclear Energy Series*, a 50-to-60-volume series (of which 17 volumes have already been published), presents the scientific developments of the Manhattan District and the AEC programs. About half of the volumes will be classified. The Research Library at Brookhaven National Laboratory prepares and publishes periodically a *Guide to Russian Scientific Literature*, which is primarily a translated title list of the articles in the Russian scientific periodicals received by the Library. It also contains some abstracts and occasionally publishes translations of entire articles. This *Guide*, the *Nuclear Science Abstracts*, and nonsecret AEC reports not published elsewhere are obtainable by purchase from the Office of Technical Services, Department of Commerce.

Other publications of the Commission that are compilations of information are: *Trilinear Chart of Nuclear Species* by William H. Sullivan (New York, John Wiley, 1949, illustrated, \$2.50); *Sourcebook on Atomic Energy* by Dr. Samuel Glasstone (New York, D. Van Nostrand Co., 1950, \$2.90); *Effects of Atomic Weapons*, prepared jointly by AEC and the Department of Defense (Washington, Government Printing Office, 1950, \$1.25); *Civilian Defense Against Atomic Warfare: A Selected Reading List*, prepared for the National Security Resources Board (Washington, Government Printing Office, 1950, 10

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cents); *Selected Readings on Atomic Energy* (Washington, Government Printing Office, 1951, 15 cents); and the Semiannual Reports of the Atomic Energy Commission to Congress. A 40-page *Index to the Semiannual Reports to Congress, January 1947-January 1951*, which can be purchased for 20 cents from the Superintendent of Documents, Washington 25, D. C., serves as a guide to the unclassified data regarding progress and activities of the AEC reported in its semiannual reports.

Civil Aeronautics Administration (CAA)

The CAA Library maintains complete indexed collections of all CAA technical reports, all unclassified reports of the National Advisory Committee for Aeronautics, and all documents, most of them technical, of the International Civil Aviation Organization. It also has a limited collection of trade literature published by manufacturers. In March 1951, the Library began to issue a periodical accessions list, covering all unclassified documents, for internal distribution within the CAA.

Library of Congress

With the recent staffing of the Science Division, a program has been initiated to promote fuller utilization of the resources of the Library of Congress in science and technology. Surveys are being made for more effective identification of the holdings in these fields in the general and special collections of the Library, and this information will be brought to the attention of scientists and those who serve their information needs. Improvements in the organization and servicing of the material are being undertaken in consultation with specialists in various scientific disciplines and librarians working in the fields of science and technology.

Research will be continued on the application of a variety of technological advances to the problems of documentation. It is anticipated that new techniques and devices will help to solve a number of the most pressing information problems and will make the material in the Library of Congress more readily accessible for use by the Department of Defense and other government agencies.

Upon the recommendation of the RDB Special Committee on Technical Information and the Interdepartmental Committee on Scientific Research and Development, the Library of Congress has established a central catalog of English translations and abstracts of Slavic publications and documents in the possession of government agencies. The catalog is being maintained for an experimental period in order to ascertain its feasibility, scope, and potential usefulness. Instruction sheets and supplies of forms have been sent to interested government agencies to be used in submitting reports to the Library of Congress on translations and abstracts which have been or are being prepared. Forms have also been distributed for use in requesting information from the catalog concerning the existence and location of available translations. The Library's services in connection with this catalog are extended to any interested

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persons or organizations. Inquiries should be addressed to the Union Catalog Division, Library of Congress, Washington 25, D. C.

National Advisory Committee for Aeronautics (NACA)

A complete collection of all NACA reports is maintained by its Office of Aeronautical Intelligence at 1724 F. Street N.W., Washington 25, D. C. In addition, there are files of aeronautical documents received from military, industrial, and British sources since about 1918. The *Index of NACA Publications, 1915-49* lists, by subjects, all unclassified NACA reports issued during that period. An author index is in the process of publication. A separate CONFIDENTIAL index covers the classified reports issued from 1915 through 1947. The biweekly *NACA Research Abstracts* contains abstracts of unclassified and declassified NACA and British reports. An author index to the abstract bulletin will be issued yearly.

National Bureau of Standards

The reports on the Bureau's research and development projects that are supported by the Military Departments are sent to the Departments for dissemination. For security reasons, the Bureau maintains decentralized and compartmentalized files of these classified reports. The periodical publications of the Bureau include: the monthly *Journal of Research of the National Bureau of Standards* (annual subscription—\$5.50), which contains complete research papers in the fields of physics, mathematics, chemistry, and engineering; and the monthly *Technical News Bulletin* (annual subscription—\$1), which contains interim reports of the Bureau's current research and development projects, summaries of completed projects, and a bibliography of all NBS publications of the preceding month, including research papers, handbooks, applied mathematics series, building materials and structures reports, simplified practice and commercial standards recommendations, circulars, and miscellaneous publications.

National Science Foundation

The recently established National Science Foundation is planning a program of scientific information activities, which will be directed particularly to research scientists in the colleges and universities. The Foundation is still in the process of recruiting staff members and outlining its programs and mode of operation. It has the nucleus of a Scientific Information Office, which proposes to support research on various aspects of information organization and dissemination and to take an active part in cooperative efforts to solve problems encountered in handling the mass of scientific and technical information now being produced in this country and elsewhere.

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National Security Resources Board (NSRB)

The NSRB has established a project known as the National Scientific Register under the Office of Education, Federal Security Agency. This project is developing a comprehensive inventory of the names, locations, and skills of America's scientists and technologists. It is anticipated that the function will be transferred to the National Science Foundation when that agency is in a position to take over the work. In developing the current Register, the project is making full use of the roster of scientists developed by the National Research Council and of the Engineers Joint Council survey of engineers, both of which were prepared under contract with the Office of Naval Research. The two studies were supported jointly by the Army, Navy, and Air Force.

Office of Technical Services (OTS), Department of Commerce

The OTS was established in 1945 by the Department of Commerce to centralize certain functions of the Department, including those of the Publication Board. Government agencies were instructed by Executive Order 9568 to send copies of all their unclassified and declassified technical reports to the Publication Board, and these were deposited with and catalogued by OTS. In September 1950, Congress passed Public Law 776, 81st Congress, which defined the functions and responsibilities of the Department of Commerce as a clearinghouse for technical information that is useful to American industry and business. OTS, which has been assigned that clearinghouse function, now has a collection totaling some 200,000 technical reports, including unclassified and declassified reports on wartime and postwar research by United States Government agencies, reports on research by cooperating foreign governments, and technical documents captured in enemy countries. Once identified, reports can be purchased directly from OTS, if mimeographed copies are available, or photostat or microfilm copies can be purchased from the Library of Congress Photoduplication Service. Bibliographies of reports on major fields of technical interest, such as ceramics, foods, plastics, protective coatings, etc. are available upon request, many of them free of charge.

There are two regularly issued OTS publications. The monthly *Bibliography of Technical Reports* (formerly the *Bibliography of Scientific and Industrial Reports*), which is now in its fifth year, lists the reports as they are received and abstracts most of them. Abstracts are grouped by subject matter. Subject indexes to most of the volumes have been published. The subscription price has been lowered from \$10 to \$5 per year. The *Technical Reports Newsletter* highlights selected items considered to be of special interest to small business. It may be purchased as part of the bibliography or may be obtained separately at a cost of 50 cents a year.

The OTS invites inquiries from industrial firms concerning production techniques, and a bulletin on shop practices, entitled *Defense Production Aids*, is issued at frequent intervals for nationwide distribution to industry.

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Institute of the Aeronautical Sciences

The Library of the Institute of the Aeronautical Sciences, 2 East 64th Street, New York 21, New York, comprises the Paul Kollsman Lending Library and the W. A. M. Burden Reference Library, and has a large collection of books and periodicals in its field. It receives many aeronautical reports and translations automatically from the Central Air Documents Office and upon request from other government agencies, principally the National Advisory Committee for Aeronautics, the David W. Taylor Model Basin, the Civil Aeronautics Administration, the Civil Aeronautics Board, the Bureau of Ordnance, and other bureaus. Reports are also received from the British Aeronautical Research Council, the air ministries of Great Britain, France, Sweden, Italy, etc., and from many research laboratories and universities of foreign countries. The Library maintains the complete card index, supplied by the Central Air Documents Office, of captured enemy documents (some 200,000 cards covering 55,000 documents), and has on file microfilm or full-sized copies of about 25,000 of the documents. Reference services are provided, and translations are prepared for individual and corporate members of the Institute and for others engaged in research.

The Editorial Department of the Institute, with which the Library cooperates, produces the monthly *Aeronautical Engineering Review* and the annual *Aeronautical Engineering Index*, available by subscription and sale. These contain about 5,000 abstracts and cover some 400 books annually.

The Pacific Aeronautical Library of the Institute of the Aeronautical Sciences, 7660 Beverly Boulevard, Los Angeles, California, was established in 1940 and is supported by five major aircraft companies on the West Coast. Its collection of reports includes: reports issued by the National Advisory Committee for Aeronautics; British Air Ministry reports, memorandums, and translations of foreign technical articles; reports of the Civil Aeronautics Administration; many Canadian, Swedish, German, French, and Japanese reports, pamphlets, and preprints; the papers of many technical societies; the joint Army-Navy-Air Documents Foreign Index, a card file on some 55,000 captured German and Japanese reports, together with two million feet of film covering the original documents and several thousand of the translated reports. The Library fills requests for reference assistance and prepares bibliographies. It issues, twice a week, a check list of magazine articles, arranged by subject, which is distributed to engineers in the various aircraft plants. The Library also issues a magazine and report index on cards once a week, covering material of particular interest to the aircraft industry and material not indexed by *Industrial Arts*. Approximately 175 magazines are indexed each month, and brief abstracts are given if the title is not clear as to the scope of the article. This index is distributed to the aircraft plant libraries and is also sold at cost to other subscribers.

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