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# HISTORY OF AIR TECHNICAL INTELLIGENCE CENTER

1 JULY 1953 - 31 DECEMBER 1953



**AIR TECHNICAL INTELLIGENCE CENTER**  
**WRIGHT-PATTERSON AIR FORCE BASE**  
**OHIO**

Copy No. 4

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TABLE OF CONTENTS

	PAGE
FOREWORD . . . . .	2
ORGANIZATIONAL CHART, AIR TECHNICAL INTELLIGENCE CENTER . . .	3
I. OFFICE OF THE COMMANDER . . . . .	4
II. MISCELLANEOUS ACTIVITIES	
Troop Commandant . . . . .	13
USAF Security Services Detachment . . . . .	14
III. STAFF OFFICES	
Policy and Management Office . . . . .	16
Adjutant's Office . . . . .	31
Inspector General's Office . . . . .	36
IV. DIVISIONS	
Technical Requirements Division . . . . .	39
Technical Services Division . . . . .	47
Technical Analysis Division . . . . .	57
Air Intelligence Office . . . . .	84

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FOREWORD  
TO THE HISTORY OF  
THE AIR TECHNICAL INTELLIGENCE CENTER  
For the Period  
1 July 1953 - 31 December 1953

The general plan and format of this installment of the Air Technical Intelligence Center History is essentially the same as that used in the preceding installment. One change has been made in style. In the interest of brevity, cross reference has been made by means of footnotes to page numbers in the preceding installment to eliminate repetition of content fully described in the preceding issue.

As in the preceding installment, a chart has been included following this foreword. Although there have been several changes in the key personnel listed on this chart, the organizational structure shown is the same as that existing at the end of the preceding reporting period.

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**OFFICE OF THE COMMANDER**

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OFFICE OF THE COMMANDER

I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

The functions and staffing pattern of the Office of the Commander, during the period, officially remained essentially the same as that reported in the preceding edition of the history.<sup>1</sup> However, to care for an emergency situation that arose toward the end of the period - the sudden and serious illness of the Commander, Brigadier General William M. Garland, - temporary shifts in the principal duty assignments of key personnel had to be made.

Upon the departure of Colonel Sanford H. Kirkland, Jr.,<sup>2</sup> Executive, for permanent change of station to the Air War College, Air University, Montgomery, Alabama, 1 July 1953, Colonel Dane F. Justice, Sr.,<sup>3</sup> Chief of the Policy and Management Office, was detailed to the position of executive and performed these additional duties until 27 July 1953 when Colonel Morris H. Shedd<sup>4</sup> reported for duty and was assigned as executive. On 19 August 1953, Colonel Shedd<sup>5</sup> was relieved as executive

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<sup>1</sup> History of the Air Technical Intelligence Center, 1 January - 30 June 1953 pp 6 - 7

<sup>2</sup> Hq 1125th USAF FAG (ATIC): SO 35, 19 March 1953 and SO 89, 9 June 1953

<sup>3</sup> Hq 1125th USAF FAG (ATIC): PAM 31, 20 July 1953

<sup>4</sup> Hq 1125th USAF FAG (ATIC): PAM 32, 23 July 1953

<sup>5</sup> Hq 1125th USAF FAG (ATIC): PAM 37, 19 August 1953

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and assigned as chief of the Technical Services Division. On  
<sup>6</sup>  
 1 September 1953 Colonel John A. O'Mara was assigned as executive.  
 The position of deputy commander, vacated by reassignment of  
 Colonel O'Mara, was filled 11 September 1953, by Colonel  
<sup>7</sup>  
 George L. Wertenbaker who reported for duty the preceding day.

On 26 November 1953, the Commander, Brigadier General Garland,  
 while returning from Maxwell Air Force Base, Montgomery, Alabama, via  
 Washington, D. C., became seriously ill and was admitted to the  
 Walter Reed Medical Center in Washington, D. C. Since the deputy  
 commander, Colonel Wertenbaker, was on ordinary leave at the time, the  
 executive, Colonel O'Mara, assumed command until Colonel Wertenbaker's  
<sup>8</sup>  
 return. Colonel Wertenbaker assumed command 30 November 1953. Since  
 it was apparent that Brigadier General Garland would not be able to  
<sup>9</sup>  
 return to duty for some time, if at all, Colonel O'Mara was reassigned  
<sup>10</sup>  
 from executive to deputy commander, and Captain Dixie C. Hampton was  
 assigned as administrative assistant to the commander. Captain  
 Hampton was formerly assistant chief of the Military and Civilian

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<sup>6</sup>  
 Hq 1125th USAF FAG (ATIC): PAM 41, 11 September 1953  
<sup>7</sup>  
 Hq 1125th USAF FAG (ATIC): PAM 41, 11 September 1953, and American  
 Embassy, Stockholm, Sweden: SO 31, 9 June 1953  
<sup>8</sup>  
 Hq 1125th USAF FAG (ATIC): GO 20, 30 November 1953  
<sup>9</sup>  
 Hq 1125th USAF FAG (ATIC): GO 21, 30 November 1953  
<sup>10</sup>  
 Hq 1125th USAF FAG (ATIC): PAM 53, 4 December 1953

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Training Section of the Technical Services Division. The position of executive was left vacant. All these shifts in assignment were made on a tentative basis pending definite information on Brigadier General Garland's return.

On 16 December, oral notice was received that Brigadier General Garland would not return.<sup>11</sup> Since no orders were issued by Headquarters USAF relieving Brigadier General Garland of command and designating his successor, the tentative assignments continued at the end of the period.

At the end of the period, key personnel in the Office of the Commander and the capacity in which they were serving were:

Brigadier General William M. Garland	Commander - absent
Colonel George L. Wertenbaker	Acting Commander
Colonel John A. O'Mara	Acting Deputy Commander
Captain Dixie C. Hampton	Temporary Administrative Assistant
Mr. A. Francis Arcier	Scientific Advisor
Mr. John S. Honaker	Civilian Assistant

(Uncl)

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11  
See page 12



8  
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## II. ACTIVITIES

### (Uncl) PROJECT PLANNING AUTHORITY AND THE TEN YEAR PLAN:

The Project Planning Authority (PPA), established during the  
preceding period,<sup>12</sup> began to carry out its assignment of planning the  
implementation of the ATIC Ten Year Plan.<sup>13</sup> (Uncl)

This group began by defining and interpreting in more specific  
detail the technical terminology and concepts embodied in or allied  
to the Ten Year Plan. They then developed tentative criteria for  
evaluating and classifying current projects and for approving and  
planning future air technical intelligence projects, in conformance  
with the goals specified under "Priorities"<sup>14</sup> in the Ten Year Plan.  
These tentative criteria were applied to the classification of  
current projects and a study was started to determine what projects  
should be continued, what ones discontinued, and what ones modified.  
(Uncl)

A study of the requirements placed upon the ATIC for production  
of air technical intelligence was started. The aim of this study is  
to eliminate or reduce those requirements that do not conform to the  
priorities specified in Ten Year Plan and to bring the utilization

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<sup>12</sup>  
History of the Air Technical Intelligence Center, 1 January -  
30 June 1953, pp 10-11

<sup>13</sup>  
Ibid. pp 8-10

<sup>14</sup>  
Ibid. p 9

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9

of resources into conformance with this plan. One phase of this general study is concerned with collection sources and problems, another with the allocation and expenditure of budgetary allotments, and another with the supply and distribution of manpower. (Uncl)

Various activities within the Center are cooperating in the various phases of this study. The Technical Analysis Division has assisted in classifying projects according to the Ten Year Plan's priorities and in evaluating the assistance received from contractors. The Policy and Management Office has supplied workload, manhour, and cost data. The Technical Requirements Division has assisted in studying collection sources and defining collection problems. (Uncl)

To date, one study has been completed and was submitted to the Commander with recommendations on 23 November 1953. This study concerned the utilization of a major contractual source. (Uncl)

Although little progress was made during the period in the actual implementation of the Ten Year Plan, much progress was made in identifying the problems involved and in laying the basic ground work for development of definite plans to clarify the purpose and mission of the ATIC and to direct its activity toward accomplishing the objectives specified in the Ten Year Plan.

(Uncl) EVALUATION OF INTELLIGENCE REPORTS. The procedures developed during the preceding period for expediting and improving the evaluation of intelligence reports, received through collection sources,

15

History of the Air Technical Intelligence Center, 1 January - 30 June 1953  
pp 11-12

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proved so effective that it was no longer deemed necessary for the civilian assistant to monitor directly this project. The proper preparation of intelligence-report evaluations is now a subject for special attention by the ATIC inspector general. (Uncl)

(Uncl) OVERSEAS TRIPS. During the period two of the office's key personnel, the scientific advisor and the commander, made trips to Europe where they attended meetings of scientific and aeronautical groups and visited air technical liaison offices. (Uncl)

(Uncl) Scientific Advisor. Mr. Arcier departed for Europe on 2 September 1953 and returned on 10 October 1953. During this period he attended the Fourth International Aeronautical Conference as a delegate for the United States Air Force. This conference was sponsored by the Royal Aeronautical Society and the Institute of Aeronautical Sciences and was held in London, England, 8-14 September 1953. The program for this conference included a visit to the Flying Display and Exhibition of the Society of British Aircraft Constructors at Farnborough, England, 8, 9, and 10 September 1953. During his stay in England, Mr. Arcier also visited various aircraft manufacturing plants to gain further knowledge of the progress being made in aeronautical research and development, and in manufacturing techniques; the Ministry of Supply and the Air Ministry to discuss intelligence problems of mutual interest; and the USAF Air Technical Liaison Office. On the continent,

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Mr. Arcier visited air technical liaison offices in Wiesbaden, Germany; Paris, France; and Rome, Italy, to discuss classified intelligence projects and problems related to the production of air technical intelligence. (Uncl)

(Uncl) Commander. Brigadier General Garland departed for Europe on 30 August 1953 and returned 13 September 1953. While abroad he attended meetings of the Advisory Group for Aeronautical Research and Development (AFARD), 3 to 11 September 1953, in London, and the Flying Display and Exhibit in Farnborough, September 8, 9, and 10, 1953. Representatives of all the North Atlantic Treaty Organization Nations were present at the AFARD conference. Brigadier General Garland also visited the Air Technical Liaison Office in Wiesbaden where he conferred with USAF air technical liaison personnel from Germany and Austria. (Uncl)

(Uncl) SIXTH ANNUAL BOMBING ACCURACY CONFERENCE. Brigadier General Garland addressed the Sixth Annual Bombing Accuracy Conference at Maxwell Air Force Base, Montgomery, Alabama, on 23 November 1953. During his return to Wright-Patterson Air Force Base, via Washington, D.C., he became ill and was hospitalized. (Uncl)

(Uncl) NOTEWORTHY VISITORS:

On 7 July 1953, Mr. Frederick Ayer, Jr., Special Assistant for Intelligence to the Secretary of the Air Force, visited the Air Technical Intelligence Center, accompanied by Brigadier General John B. Ackerman, Acting Director of Intelligence, USAF. The purpose

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of Mr. Ayer's visit was to gain firsthand information on the mission of ATIC, ATIC projects in existence, the progress and status of these projects, and projected plans. (Uncl)

Colonel Bernt Balchen, noted authority on Arctic region, visited ATIC on 21 September 1953, to advise concerning collection possibilities in that region. (~~CONFIDENTIAL~~)  
(unclas)

Dr. Claudio Caroni, President of Flug-Und Fahrzeugwerke Aircraft Company of Switzerland, and Mr. Robert Vieux, First Secretary of the Swiss Legation in Washington, D. C., visited the Air Technical Intelligence Center on 23 September 1953. The visitors were questioned regarding certain foreign aeronautical developments known to them.

(~~CONFIDENTIAL~~)  
(unclas)

Major General John A. Sanford, Director of Intelligence, visited the Center on 16 December 1953, where he met with the ATIC staff to review policies and projects, and announced that Brigadier General Garland would not return to ATIC upon his release from Walter Reed Medical Center. He stated that Colonel George L. Wertenbaker would continue in command until further notice. (Uncl)

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## MISCELLANEOUS ACTIVITIES

## TROOP COMMANDANT AND HEADQUARTERS SQUADRON SECTION

During the period of 1 July 1953 through 31 December 1953, no change occurred in the functions of the Troop Commandant, but considerable change took place in personnel. The Troop Commandant's Office and the Headquarters Squadron Section underwent a nearly complete turnover in administrative personnel during this six month period. Despite a noticeable decrease in personnel, the section was able to maintain the same workload as in the preceding period.

First Lieutenant Robert L. Summers took over as Troop Commandant and Commander, Headquarters Squadron Section, on 21 September 1953<sup>1</sup> replacing First Lieutenant Clarence L. Moore, Jr., who was reassigned<sup>2</sup> to the Institute of Technology with duty station at the University of Pennsylvania at Philadelphia.

Although the section was understaffed in the Orderly Room by the end of December 1953 with three airmen positions open, the prospects looked very good for the section to be completely manned by the end of January 1954.

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<sup>1</sup>  
1125th USAF FAG (ATIC): PAM 42, 17 September 1953

<sup>2</sup>  
1125th USAF FAG (ATIC): SO 117, 20 August 1953

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On 10 November 1953, the Orderly Room was moved out of the Center to the Wood City Area. (Uncl)

USAF SECURITY SERVICES DETACHMENT. No change occurred in the organization, functions, and key personnel of this activity from that reported in the preceding edition of the history.<sup>3</sup>

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<sup>3</sup>  
History of the Air Technical Intelligence Center, 1 January - 30 June 1953, p 13.

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**STAFF OFFICES**

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## POLICY AND MANAGEMENT OFFICE

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

At the beginning of the period, the Policy and Management Office consisted of two branches: The Comptroller's Branch and the Personnel Branch. On 14 September 1953, the Comptroller's Branch was discontinued and the two sections of that branch were redesignated branches: Budget and Accounting Branch and Management Analysis Branch. The Personnel Branch continued to be a component of the Policy and Management Office, making a total of three branches.

In conformance with the organizational change, functional statements of the Policy and Management Office and its components were revised and published 14 September 1953 in ATIC Manual 20-1, and are as follows:

Policy and Management Office

"Provides the Commander and his staff with management services and advice. Informs the Commander of the effectiveness of established management and administrative programs and systems and the value of proposed organizational and management plans. Advises on budget requirements, funds expenditures, contract legality and administration,

1

Hq 1125th USAF FAG (ATIC): OO 11, 14 September 1953

2

See ATIC Chart, 1 November 1953, p 3

3

ATIMCM 20-1, ATIC Organization, Function and Locator Guide

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operational problems, organizational alignment, functional assignments, manpower distribution and utilization of personnel. Reviews policy from higher authority and advises on implementation within the ATIC. Recommends management policy and practices to improve efficiency and economy of operations." (Uncl)

Budget and Accounting Branch

"Provides budget, accounting, statistical, and cost accounting services. Advises on funds requirements. Develops, presents, and justifies budget estimates and financial plans. Obtains authority to expend and suballot ATIC funds. Funds the requirements of the ATIC for operations and contingencies, including SECRET and CONFIDENTIAL expenditures. Assures the availability and legality of funds to be expended. Maintains records of and computes operational costs. Establishes controls and follow-up procedures to assure efficient utilization of the project control system. Develops and maintains a reports control system. Develops graphic presentations for use in studies and analysis, for budgetary support, and for portrayal of current trends and conditions." (~~CONFIDENTIAL~~)  
(unclas)

Management Analysis Branch

"Provides management engineering services to improve the efficiency and economy of operations. Analyzes organizational structure, manpower requirements, methods and procedures.

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Evaluates the effectiveness of existing management and administrative programs and recommends improvements. Plans and installs Center-wide management improvement programs. Advises operating components on management problems concerning position and personnel needs, management of personnel, work simplification, methods and procedures. Distributes manpower allotments." (Uncl)

Personnel Branch

"Provides the Air Technical Intelligence Center with personnel services. Advises divisions and staff offices concerning civilian and military personnel matters. Performs normal military personnel functions other than those assigned to the Troop Commandant. Conducts liaison with Wright-Patterson Air Force Base concerning civilian personnel services provided under tenancy agreement, and augments those services as required." (Uncl)

On 28 October 1953, responsibility for the preparation of the ATIC history was transferred from the Air Intelligence Office to the Policy and Management Office. <sup>4</sup> Lt Colonel William L. Ewbank was designated the historical officer.

On 1 July 1953, the Policy and Management Office was authorized 6 officers, 8 airmen, and 13 civilians, a total of 27. During the

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<sup>4</sup>  
DF dtd 28 October 1953, from ATI to ATIM

period, one additional civilian position was authorized, making a total manpower authorization at the end of the period of 6 officers, 8 airmen, and 14 civilians. Personnel strength changed from 4 officers, 9 airmen, and 10 civilians at the beginning of the period to 6 officers, 7 airmen, and 14 civilians at the end of the period.

Because of the reorganization of the office, on 14 September 1953,<sup>5</sup> the following changes occurred in key personnel:

Captain George L. Conners, formerly acting chief of the Comptroller's Branch, was made the chief of the Budget and Accounting Branch. Major George G. Hedblom, Contract Administration Officer, was reassigned from the Comptroller's Branch to the Office of the Chief, Policy and Management Office.

On 27 November 1953, Lt. Colonel William L. Ewbank was changed from<sup>6</sup> personnel officer to deputy chief of the Policy and Management Office.<sup>7</sup> Major Alec H. Lester replaced Lt. Colonel Ewbank as personnel officer.

At the end of the period, key personnel for the Policy and Management Office were:

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<sup>5</sup>  
Hq 1125th USAF FAG (ATIC): GO 11, 14 September 1953  
<sup>6</sup>  
Hq 1125th USAF FAG (ATIC): PAM 52, 27 November 1953  
<sup>7</sup>  
Ibid.

UNCLASSIFIED

Chief	Colonel Dane F. Justice, Sr.
Deputy Chief	Lt Colonel William L. Ewbank
Contract Administration Officer	Major George G. Hedblom
Chief, Personnel Branch (Personnel Officer)	Major Alec H. Lester
Chief, Budget and Accounting Branch	Captain George L. Conners

The position of chief of the Management Analysis Branch was vacant.

(Uncl)

## II. ACTIVITIES

### BUDGET AND FISCAL PROGRAMS:

(Uncl) Financial Planning. Financial plans for first half of the fiscal year 1954 were revised quarterly to meet changing requirements so as to stay within the annual budget authorizations and quarterly allotments. Financial plans for contingency expenditures were phased to provide for major commitments during the second quarter, in order to allow sufficient time for negotiation and execution of contracts and special purchases prior to the annual procurement deadline for obligation of current-year funds. In all cases these plans were based upon actual obligations during the first and second quarters and foreseeable requirements for the third and fourth quarters. (Uncl)

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(Uncl) Monthly Report of Funds and Operating Costs. This report was completely revised to include graphical presentations showing status of funds and operating costs by budget project, object class, functional area, manhour utilization, and organizational component. All essential information on ATIC funds was incorporated in one report and funds use shown graphically against a planned program. (Uncl)

(Uncl) Use of Cost Data. Cost data accumulated under the ATIC cost reporting system have been utilized much more extensively and frequently by operating divisions in planning work projects during this period than during the preceding period. This increase in use of cost data is indicative of a growing cost consciousness on the part of both administrative and planning officials, with resulting economy in utilization of funds and manpower. (Uncl)

(Uncl) Status of Funds. The status of funds for the six-month period is as follows:

Contingency Funds - F731

Annual Budget Authorization . . . . .	\$ 2,450,000
Commitments . . . . .	1,932,363
Obligations . . . . .	388,341
Expenditures . . . . .	160,167
Unobligated balance (commitments) . . . . .	517,637

Administration Funds - P481

Annual Budget Authorization . . . . .	\$ 1,751,664
Obligations . . . . .	815,741
Expenditures . . . . .	691,330
Unobligated balance . . . . .	934,923

(~~uncl~~)  
(uncl)

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(Uncl) REPORTS CONTROL. A reports control system is in the process of being established in the Center. Because of personnel turnover, this project had to be deferred several times since it was started in January 1953. As a result, a resurvey had to be made of current reporting requirements. The resurvey was completed in December 1953. (Uncl)

(Uncl) CONTRACT ADMINISTRATION:

Twenty-seven contracts totaling approximately \$2,000,000 are current. Contracts totaling approximately another million dollars are being negotiated, one of which will extend beyond the current fiscal year.

Lectures on contract matters and procedures have been made to project monitors. Most contractors and several administrative contracting officers in the field had been visited by the end of the period. (Uncl)

(Uncl) PERFORMANCE REQUIREMENTS PROGRAM:

In November a survey was made to determine the effectiveness of the Performance Requirements Program. Questionnaires were sent to all ATIC supervisors, military or civilian, who had civilian employees under their jurisdiction. The questionnaire was designed to obtain supervisory opinion on the value of the program and to determine the use being made of the program by individual supervisors. Although

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analysis of the replies to this questionnaire has not been completed, sufficient data has been compiled to reveal that a majority of the supervisors feel the program has been beneficial and should be continued. (Uncl)

Preliminary analysis of the questionnaires also reveals that civilian supervisors have a better understanding and are making greater use of the program than military supervisors; supervisors find the program more useful for new employees than for older, more experienced employees; the program is more easily applied and is more helpful in the supervision of clerical employees, who require rather close and detailed supervision, than in the supervision of technical and professional employees, who work more or less independently. Those who favored the program agreed that it is an effective tool in improving supervisor-employee relations, in developing efficient employees, and in improving work productivity of individual employees. (Uncl)

Some supervisors reported that they had used the written performance requirements to streamline and simplify work procedures, to adjust workload assignments, and to correct deficiencies in organization within their respective areas. (Uncl)

Some of the other values reported are reduction of break-in time for new employees to about one-half of the time formerly required and lessening of the supervisory load by making unnecessary repeated, oral instructions. (Uncl)



Higher level supervisors reported that they had used the written performance requirements and conference evaluation records to evaluate the quality of lower level supervision and to determine training needs in supervisory responsibility and techniques. A significant number of the supervisors thought the program could be improved by shortening the written requirements and developing more definite and realistic standards for measuring employee performance. (Uncl)

The questionnaire replies revealed that follow-up action to insure the effectiveness of the program had been neglected. Plans are underway to correct this deficiency. The ATIC Performance Requirements Program will be a topic included in the orientation of all new personnel, military or civilian, and special conferences for supervisors will be held prior to each semi-annual performance evaluation conference period.

Extension of the program to include military personnel is now in progress. (Uncl)

(Uncl) SURVEY OF SEPARATED PERSONNEL. This survey continued but there was a noticeable decrease in the percentage of replies received. Information contained in the replies indicated that there had been noticeable improvement in working conditions and personnel policies. The percentage of favorable replies increased substantially. (Uncl)

(Uncl) DEVELOPMENT OF SUPERVISORS AND KEY PERSONNEL. This project progressed steadily, emphasis being mainly on indirect means of conveying to supervisors the responsibilities of supervision and principles

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of management, and closer check by division and staff office chiefs on the supervisors under their jurisdiction. (Uncl)

(Uncl) MONTHLY MEETINGS OF PERSONNEL. Five mass meetings of personnel were held during the period. The purpose of these meetings was mainly inspirational and educational. At one of the meetings the film "We Saw It Happen" was shown and at others, movies and slides taken by the Commander during his European tours. It is felt that general morale was greatly improved by these meetings. (Uncl)

(Uncl) SURVEY AND REAUDIT OF CIVILIAN POSITIONS. Because of the reduction-in-force program, the survey and reaudit of civilian positions was suspended during the period. (Uncl)

(Uncl) REVISED ORGANIZATIONAL CHARTS:

A revised organizational chart for the ATIC was published 15 July 1953. This chart was essentially the same as the one included in the preceding edition of the history. When the next revision of the chart was made, 1 November 1953, the format was changed to that of an organizational directory chart and included the name of the chief and his telephone number for each organizational component shown on the chart. Major organizational changes reflected in the November 1953 chart were:

Change of Comptroller Branch to the Budget and Accounting Branch with the Management Analysis Section being removed and established at branch level. (Uncl)

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8  
History of the Air Technical Intelligence Center, 1 January - 30 June 1953

9  
See Sec III, "Policy and Management Office" p 16

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Reorganization of the Air Intelligence Office into two branches  
10  
instead of four. (Uncl)

Change of title for the Countermeasures Section of the Technical  
11  
Analysis Division to Signal Analysis Section. (~~CONFIDENTIAL~~)  
(unclas)

Combination of the ATI Equipment Section and the Office Equip-  
ment Section of the Technical Services Division to form the ATI Supply  
12  
Section, and the establishment of the Maintenance and Services Section.  
(Uncl)

(Uncl) ORGANIZATION, FUNCTIONS, AND LOCATOR GUIDE. In addition  
to the revised organizational charts, an organizational directive,  
ATICH 20-1, "Organization, Functions, and Locator Guide," was issued  
20 July 1953. This manual contained a statement of the functions of  
each segment of the ATIC down through section level, together with  
the current organizational chart, manpower data, and a symbol and  
directory sheet. Pages have been revised and issued as organizational  
changes were made. (Uncl)

ORGANIZATIONAL PLANNING STUDIES:

(Uncl) New Organizational Concept. A completely new organiza-  
tional concept for the Air Technical Intelligence Center was developed  
and submitted to the Commander, 23 November 1953. Decision is pending.  
The new concept, if adopted, will result in major organizational changes  
and realignment of functions throughout the Center. (Uncl)

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10  
See Section IV, "Air Intelligence Office" pp 85-86  
11  
See Section IV, "Technical Analysis Division" p 58  
12  
See Section IV, "Technical Services Division" p 48

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of the bumped employees were separated and one separation is pending; eight were placed within the Center (two at the same grade and six at a lower grade); two were transferred to Headquarters, Air Materiel Command at a lower grade; and two bumping actions were canceled. (Uncl)

(Uncl) Change in Position Structure. During the period, action was taken to establish 71 new civilian positions, cancel 39 old positions, and to reclassify 72 positions. Of this number, 58 establishments, 47 cancellations, and 36 reclassifications were completed by the end of the period. This change in over one-third of the Center's civilian positions was caused by position classification audits, realignment of functions, and shifting workload. (Uncl)

(Uncl) Change in Civilian Personnel. During the period, 49 civilians were separated, 44 were hired in. At the end of the period 19 in-hiring actions were pending. Thirty-one employees were promoted, 23 changed to lower grade, and 34 reassigned with no change in grade. This excessive rate of personnel change made operation extremely difficult. (Uncl)

(Uncl) Military Classification. A team of airmen was sent TDY to the USAF Test Center to accomplish a personnel resources test (AFPRT) for AFSC 20570, Technical Intelligence Technician. This was accomplished in September 1953. After 1 January 1954, this test will be used Air Force-wide as a mandatory prerequisite for awarding of AFSC 20570. (Uncl)

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Classification board procedures were stabilized by obtaining a determination from Headquarters Command that base facilities will be used, with a technical advisor being furnished the Board from this Headquarters. This change has resulted in elimination of the ATIC Classification Board and a marked improvement in classification procedures and quality. (Uncl)

(Uncl) Deactivation of 1126th AISS. Effective 1 July 1953,<sup>13</sup> the 1126th Air Intelligence Services Squadron was deactivated. Personnel of the 1126th AISS (3 officers and 1 airman) were reassigned to Hq 1125th USAF Field Activities Group without change in primary duty or station. (Uncl)

(Uncl) Awards and Decorations. Out of the twenty-one annual performance ratings of Outstanding approved for civilian employees on the Wright-Patterson Air Force Base, five were granted to ATIC employees:

Mrs. Hazel Carl  
 Mrs. Ivaline R. Mammolite  
 Mr. Clarence L. Arnold  
 Mr. Charles A. Naugle  
 Mr. A. Francis Arcier

In addition to the superior accomplishment pay increases granted concurrently with the "Outstanding" ratings, superior accomplishment pay

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<sup>13</sup>  
 Hq Command, USAF, Bolling AFB, Washington, D. C.: GO 27, 20 April 1953

UNCLASSIFIED

increases were granted to two other ATIC employees: Mr. Mark I. Knapp and Mr. Richard Z. Moravic. Presentation of these awards was made by the Commander at mass meetings of employees. (Uncl)

(Uncl) CENTER SPACE ALLOCATIONS. Throughout the period, changes in the location of offices continued, to provide more working space, better office arrangements, and more convenient locations. (Uncl)

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## ADJUTANT'S OFFICE

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

The organization and functions of the Adjutant's Office remained the same as reported in the preceding edition of the history.<sup>1</sup> Plans for reorganization of this office have progressed but have not been finalized and submitted for approval. (Uncl)

Major Robert C. Brown continued as adjutant until 8 September 1953. Upon Major Brown's departure for language school, 1st Lt. Barbara (Hanawalt) Conners was appointed adjutant,<sup>2</sup> pending the arrival of a field grade officer to replace Major Brown. On 16 September 1953, W/O R. C. Schum<sup>3</sup> reported for duty and was assigned as assistant adjutant. On 2 November 1953, the field grade officer replacement,<sup>4</sup> Major W. K. Sargent,<sup>5</sup> arrived and took over as adjutant. Lt. Conners was reassigned as assistant adjutant and W/O Schum was transferred to the Mail Branch. (Uncl)

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<sup>1</sup>  
History of the Air Technical Intelligence Center, 1 January - 30 June 1953, p. 33

<sup>2</sup>  
Hq 1125th USAF FAG (ATIC): PAM 40, 10 September 1953

<sup>3</sup>  
Hq 1125th USAF FAG (ATIC): PAM 42, 17 September 1953

<sup>4</sup>  
Hq 1125th USAF FAG (ATIC): PAM 49, 2 November 1953

<sup>5</sup>  
Ibid.

UNCLASSIFIED

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Key personnel at the end of the period consisted of Major W. K. Sargent, adjutant, and 1st Lt. Barbara H. Conners, assistant adjutant. (Uncl)

## II. ACTIVITIES

At the beginning of the period the Adjutant's Office was hampered by the lack of space and personnel. During the period, additional space was provided, the office was rearranged, and four vacancies (two civilian and two military) were filled. Although the manpower problem has not been completely solved, noticeable improvement in the operation of the Adjutant's Office has resulted from the acquisition of additional space and personnel. (Uncl)

(Uncl) PUBLICATIONS. A program for review and revision of ATIC administrative publications is now in progress. A six-month review date has been established for each publication to insure publications are kept current. Further refinement is being made in the quantities of ATIC and other publications needed for distribution to ATIC activities. During the period, the Adjutant's Office issued 89 Special Orders affecting 756 individuals, 483 Letter Orders and Travel Orders affecting 629 individuals, 21 General Orders, and 127 Daily Bulletins. (Uncl)

UNCLASSIFIED



(Uncl) FORMS MANAGEMENT. The acquisition of a forms analyst has helped considerably in expediting this program. By the end of the period, all local forms had been reviewed, and those no longer current or necessary canceled. A revised forms index was sent to publication, 29 December 1953. (Uncl)

(Uncl) CORRESPONDENCE CONTROL. Policies and procedures for coordination and signature of correspondence have been clarified and instructions have been issued to operating personnel. Further improvement in the control of correspondence has been achieved by transferring the review and processing of outgoing correspondence from the Administrative Branch to the Mail Branch. (Uncl)

(Uncl) RECEIPT AND DISPATCH OF MAIL. Additional space made possible a more efficient arrangement of the mail room. Procedures pertaining to the processing of mail and the duties to be performed by each of the mail room employees have been revamped and clarified. As a result, workload has been expedited and the receipt and dispatch of mail accelerated. (Uncl)

(Uncl) RECORDS ADMINISTRATION:

During the reporting period, the files of the Center were decentralized and filing systems were standardized. Correspondence files which originated during the previous reporting period were removed from the Central File, returned to the authorized offices and suboffices of record, and filed in accordance with the standardized system. (Uncl)

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It is believed that the Air Technical Intelligence Center was one of the first Air Force activities to implement the new Air Force Subjective Classification Filing System. A draft copy of this system, later published in an Air Force manual,<sup>6</sup> was secured and used as a guide for surveying and tentatively classifying existing files and for training the Center's clerical personnel in the classification of file material and the uniform interpretation of file codes. In December the adjutant and the ATIC records officer attended a records conference held by the Mail and Records Management Division, Air Adjutant General's Office, Hq USAF where they obtained additional information and clarification on the provisions of AFM 181-4, as well as on other records management problems. (Uncl)

(Uncl) TOP SECRET AND REGISTERED DOCUMENTS. On 13 July 1953, ATIC Top Secret Control began functioning as a tenant organization operating separately from the Air Materiel Command Top Secret Control Office. The existing Top Secret Officer became the ATIC Top Secret Control Officer with responsibility for the receipt, processing, dispatching, filing, destruction, and control of all TOP SECRET documents received by or originating within the Air Technical Intelligence Center. A complete inventory of all Top Secret, Restricted Data, and

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<sup>6</sup>  
AFM 181-4, "Maintenance of Current Records," 1 September 1953

UNCLASSIFIED

UNCLASSIFIED

registered documents physically located within the branches and sections of the Air Technical Intelligence Center was accomplished in November. On 17 December 1953, responsibility for the receipt, storage, and issuance of Registered Documents classified SECRET and lower was transferred to the Documents Processing Branch of the Technical Services Division. (Uncl)

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## INSPECTOR GENERAL'S OFFICE

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

There was no change in the organization and functions of the Inspector General's Office during the period. Colonel Frank C. Auten, Jr.<sup>1</sup> was assigned to duty as inspector general, 10 August 1953, vice Major Coleman D. Kuhn,<sup>2</sup> who was relieved from duty as acting inspector general and assigned duty as inspector. Colonel Auten returned to the ZI in July 1953 from London, England, where he had been assigned as an Air Technical Liaison Officer (Industrial), in the London Air Attache Office. (Uncl)

## II. ACTIVITIES

(Uncl) ADMINISTRATIVE INSPECTIONS. Administrative Inspections were completed for the following activities: the Documents Service Branch of the Technical Services Division, the Intelligence Office, the Electronics Branch and the Weapons and Industry Branch of the Technical Analysis Division. (Uncl)

(Uncl) PERSONAL CONFERENCES AND INVESTIGATIONS. Eight official complaints were received by the inspector general in personal conferences during the reporting period. After prompt investigation of

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<sup>1</sup>  
Hq 1125th USAF FAG (ATIC): PAM 34, 11 August 1953

<sup>2</sup>  
Ibid.

UNCLASSIFIED

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each incident, a satisfactory agreement was reached by all concerned. Three administrative investigations were conducted during this period. The recommended actions were accepted and the investigations were brought to satisfactory conclusions. (Uncl)

(Uncl) SECURITY PROGRAM. Security clearances were requested for 96 new personnel entering the Center and security clearances for 126 personnel leaving the Center were canceled during the reporting period. Compliance with Executive Order 10450<sup>3</sup>, which requires a pre-employment National Agency Check to be completed before new personnel can be placed in a sensitive position, retarded somewhat the speed with which security clearances could be obtained. (Uncl)

The security indoctrination program, that was put into effect during the first six months of 1953, has aided in reducing the number of security violations from 15 committed during the preceding period to 7 for the current period. Security violations continue to be caused mainly by carelessness. (Uncl)

Elimination of the security classification of RESTRICTED as of 15 December 1953<sup>4</sup>, necessitated a review of all security information in the RESTRICTED category. The review of RESTRICTED material generated within the Center was 85 per cent complete on 15 December 1953 and within three weeks following, 100 per cent complete. (Uncl)

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<sup>3</sup>

27 April 1953

<sup>4</sup>

Executive Order 10501, 5 November 1953

UNCLASSIFIED

UNCLASSIFIED

38

During the reporting period, interpretations concerning the  
application to ATIC operation of revised security regulations<sup>5</sup> were  
disseminated to all ATIC personnel. (Uncl)

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<sup>5</sup>  
AFR 205-1, 24 July 1953, and EO 10501, 5 November 1953

UNCLASSIFIED

II. ACTIVITIES

(Uncl) COLLECTION PLANNING. Significant activities related to collection planning during the reporting period are summarized as follows:

(Uncl) Foreign Aircraft Models. The possibilities were explored of utilizing model aircraft and three-dimensional photography for the evaluation of evidence collected in the interrogation of intelligence sources. The project was closed because information furnished by air technical liaison officers (ATLO's) returning from Germany indicated little value in the use of models for interrogation purposes.

~~(CONFIDENTIAL)~~ *unclas*

(Uncl) Soviet Fly-By. Photographic and acoustic coverage of the Soviets' May Day "Fly-By" was accomplished and evaluated. Significant results of this project have been reported through normal channels.

~~(CONFIDENTIAL)~~ *unclas*

Among plans still under development at the end of the reporting period were the following:

(Uncl) Foreign Documents Collection. A plan to unify the collection of foreign language publications originating in Europe, in order to improve coverage and eliminate duplication of collection effort. (Uncl)

(Uncl) US Missions Abroad. A plan to stimulate the flow of additional air technical information through the Mutual Defense Aid Program, North Atlantic Treaty Organization, and Off-Shore Procurement Program. ~~(CONFIDENTIAL)~~ *unclas*

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39

**TECHNICAL REQUIREMENTS  
DIVISION  
(ATIR)**

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47

TECHNICAL SERVICES  
DIVISION  
(ATIS)

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## TECHNICAL REQUIREMENTS DIVISION

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

The organization, functions and key personnel of the Technical Requirements Division did not change during the period. <sup>1</sup> (Uncl)

On 1 July 1953, this division was authorized 101 officers, 28 airmen, and 49 civilians. During the period, authorizations for officers were cut to 97. Civilian and airmen authorizations remained the same. The division is fairly well staffed with a total of 82 officers, 29 airmen, and 43 civilians assigned. (Uncl)

At the end of the period, key personnel for the Technical Requirements Division were:

Chief	Colonel Rolf D. Cape
Deputy Chief	Captain Leonard A. Wirsig
Chief, Collection Planning Office	Lt Colonel Michael J. Piatnitzka
Chief, Collection Control Branch	Major Patrick J. Ness
Chief, ATL Program Branch	Lt Colonel John L. Brownwell

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<sup>1</sup>  
History of Air Technical Intelligence Center, 1 January - 30 June 1953  
pp 37-38

III. REQUIREMENTS DIVISION OPERATIONS

The first steps in accomplishing the mission of the Center are the determination of requirements for scientific and air technical intelligence information, and to locate, recommend, and evaluate means of obtaining that information. (Uncl)

The Technical Requirements Division is responsible for those functions, and during the first half of 1955 the Division made considerable progress in developing new sources of information and improving methods of acquisition. (Uncl)

(Uncl) INTELLIGENCE SOURCE EXPLOITATION:

HA2a  
(u)

(CONFIDENTIAL) Domestic Exploitation Program:

The Center continued to expand and improve its operations under the Domestic Exploitation Program during the first half of 1955. This program is designed to exploit individuals and groups who visit Russia and the satellite countries. ~~(CONFIDENTIAL)~~ (u)

On 18 January 1955 a representative of the Requirements Division of the Center attended a briefing at the Office of Operations, Central Intelligence Agency. This briefing was conducted by Dr. James Lowe who explained the CIA functions and methods of operation in connection with the exploitation of visitors to the Soviet and satellite areas.

~~(CONFIDENTIAL)~~ (u)

The Domestic Exploitation Program includes a project for exploiting the groups of U.S. journalists who have toured Russia in the past few months. Requirements have been placed on CIA to furnish technical information obtained by those journalists during their tours. CIA was also requested to select a cooperative editor or publisher of some large U.S. aviation magazine, and arrange for his inclusion in the next group of journalists to visit Russia. Plans were also made to attempt to arrange a visit to areas of the Soviet bloc by a group composed entirely of technical and aviation writers and editors. The success of these plans is dependent upon the ability of such persons to obtain Soviet views. ~~(SECRET)~~ (U)

On 1 March 1955, a sub-project pertaining to the exploitation of non-Soviet bloc visitors to the U.S. was initiated. Under this program, notifications of visits of foreign nationals are received by the Director of Intelligence prior to the visit. The D/I then forwards these notifications to CIA where requirements are formulated, if practicable, and placed on the facility which the foreign national will visit. It is anticipated that in the near future these notifications will be forwarded to this Center where SRI's will be initiated on visitors of interest and forwarded to CIA for action. Under present arrangements, Reports of Visits of Foreign Nationals are sent to the Center following the visits. These reports are

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uplicated and forwarded to CIA for their information. Arrangements are currently being made whereby copies of these reports will be sent to the Air Attache of the country concerned for use in forming closer relations with knowledgeable foreign scientists and to establish entree into research and development establishments in the country in which he is assigned. ~~(SECRET)~~ (U)

(Uncl) Scientific Meetings and Trade Fairs:

Scientific Meetings and Trade Fairs have been a valuable source of technical information. During the first half of 1955 requirements were placed for coverage of 35 meetings and trade fairs, some of which have already been held and others to be held in the future. Attendance at scientific meetings has resulted in much information on the activities and movements of scientists in specific fields. In March 1955 an unsuccessful attempt was made to induce attendance of leading Soviet scientists at the International Symposium on Electromagnetic Wave Theory which was held at University of Michigan in June 1955. A continued effort will be made to stimulate Soviet attendance at such meetings. At trade fairs, many items of material of Soviet or satellite manufacture were obtained. These fabricated items will be analyzed to determine industrial trends, technical processes, and research and development as it may apply to the air weapons industry.

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Efforts were made to enlist the services of scientists and technicians whose specialties cover the technical fields related to air technical intelligence. The purpose of this plan is to use these selected personnel to travel to foreign areas to acquire specific information. Contracts under this plan were negotiated with three scientists. ~~(SECRET)~~ (u)

Early in June 1955 plans were made to sponsor a visit to the Center by a German scientist, Dr. Alvin Walther. Dr. Walther is Dean of Mathematics at Darmstadt Institute of Technology, Darmstadt, Germany. A series of conferences were planned in which Dr. Walther will brief selected personnel from ARDC, NACA, National Bureau of Standards, and other agencies on the state of applied mathematics in Europe, USSR, and the Middle East. He will be available for informal discussions on subjects of technical interest to the Center. He is scheduled to arrive at the Center the first week of September 1955. ~~(SECRET)~~ (u)

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(Uncl) REG Program:

The REG (Returnee Exploitation Group) Program continued to be a valuable source of technical intelligence during the first half of 1955. This program was initiated to exploit the hundreds of German scientists and technicians who were taken to Russia or held in East Germany at the end of World War II and later allowed to return to their homes in the West. Many of these returnees had

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done research work for the Soviets, and many others had worked in the Soviet aviation industry or allied fields. ~~(SECRET)~~ (U)

In March 1955 the Center received copies of the REG Installation Folder. This folder was an excellent recapitulation of knowledge gleaned from returning German scientists on the technological advances in the USSR during the period 1946 - 1954. This information is being closely studied by Center analysts for indications of trends and techniques. ~~(SECRET)~~ (U)

Although the REG Program has been an excellent source of technical information in the past, the point of diminishing returns has been reached because of the limited number of possible sources that remain in the USSR and East Germany. This has resulted in a considerable slowing down of activity in the program. ~~(SECRET)~~ (U)

(Uncl) Technical Trip Briefs:

Technical trip briefs are prepared to facilitate collection of intelligence by both official personnel and other persons who travel to areas of technical intelligence interest within the Soviet sphere. For example - The Center may be informed that a reliable and cooperative source plans to make a business trip to such an area. A trip brief outlining matters in which the Center is interested, to gether with selected targets for observation, is cabled to the appropriate overseas Air Technical Liaison Office where the requirements are imparted to the traveler. ~~(SECRET)~~ (U)

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During the period covered by this report, 17 technical briefs were prepared and forwarded for use. A geographical index of information relating to physical locations and items of technical interest was set up to facilitate the preparation of technical trip briefs. ~~(CONFIDENTIAL)~~ (u)

(Uncl) Fly-By Photography:

Several items of newly developed photographic equipment were sent to the Air Attache at Moscow for use at the Soviet Air Show scheduled for 1 May 1955. These items included a 42-inch lens assembly, an 82-inch lens assembly, and three 50-cm gunstock camera assemblies. It was anticipated that the photography obtained would meet the standard required by the Center for accurate and detailed analysis of Soviet aircraft. The May Day Show was cancelled because of inclement weather. Numerous practice fly-bys were made, however, but the quality of the photographs obtained were not up to standard. This was partly due to improper operating procedure and unfavorable weather. ~~(SECRET)~~ (u)

In past years there has been considerable delay in receiving Soviet Air Show intelligence reports and photographic coverage at the Center. Arrangements have been made with the Director of Intelligence to expedite this flash intelligence material.

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Plans were made for a courier from the Center to arrive in Washington at a time that will coincide with the scheduled arrival of the State Department Couriers from Moscow. ~~(SECRET)~~ (U)

(Uncl) Air Technical Liaison Officer Program:

The Air Technical Liaison Officer Program (ATLO) accounted for a large portion of the raw intelligence received at the Center. Under this program, specially trained personnel are placed at sensitive points throughout the world. Their specific mission is to collect and report air technical intelligence information. Although the ATLOs are under administrative control of the overseas command in which they operate, reports of their collection operations are forwarded to the Director of Intelligence and this Center. They have been trained by the Center, and the Center furnishes them with guidance, requirements, and support. ~~(SECRET)~~ (U)

In the early part of this reporting period the Center initiated a study concerning new concepts of the utilization and functions of ATLOs. The draft of the study has been held pending determination of the effect of the Austrian Peace Treaty on certain recommendations made in the study. In compliance with an oral request by the Director of Intelligence, the Center submitted recommendations on 16 April 1955 for a USAF directive which would preserve the status of the ATLO system pending action on the basic ATLO study. Using those recommendations as a basis, the Director of Intelligence published an Office

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Instruction dated 29 June 1955 entitled "SOP For the Employment and Administration of Air Technical Intelligence Liaison Officers (ATLOs)" (Uncl)

The policy of returning ATLOs to this Center for short periods of TDY during their overseas tours has proved advantageous to both the ATLO and the Center. The ATLO is brought up to date on the latest requirements and developments and the analysts are able to get a more detailed account of projects which are carried out overseas. During this period three ATLOs were returned for debriefing and reorientation. (Uncl)

(Uncl) INTELLIGENCE COLLECTION AIDS:

4A20 (Uncl) Specific Request For Information:

The Center prepares a variety of aids and guidance publications to facilitate technical intelligence collection. Specific Request for Information (SRI) is one type of aid which serves as a specific guidance for collectors in the field. SRIs are requests for specific information which is lacking on a certain subject or for information to supplement or to verify reports previously received. These SRIs are distributed to collectors in the areas most likely to produce the information. (Uncl)

During the first half of 1955 the Center initiated 277 SRIs and at the close of the period, 30 June 1955, there were 287 active SRIs.

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More than 20 of these SRTs were in the guided missile field which has a high priority in the collection of air technical intelligence.

~~(CONFIDENTIAL)~~ (u)

(Uncl) Intelligence Collection Guidance Manuals:

Intelligence Collection Guidance Manuals are an important aid in the collection of air technical intelligence. These manuals prove helpful to the non-technical collector in identifying and reporting significant information in the various technical fields. (Uncl)

In March 1955 the Center completed a guidance manual on aircraft materials.<sup>1</sup> This manual has 149 illustrations, and it provides guidance for collection of information on aircraft, aircraft components and related materials, their applications, processing, and manufacturing techniques. (Uncl)

A guidance manual on fuels, lubricants, and rocket propellants was completed in June 1955.<sup>2</sup> This manual is copiously illustrated and is designed to help the collector in identifying and reporting the various types of petroleum products, processing methods and equipment, and associated transportation and storage facilities. The manual contains a section on nuclear fuels and a section on methods used in sampling petroleum, oils, and lubricants. (Uncl)

1. Air Force Manual 200-16 (ICGM-Aircraft Materials).
2. Air Force Manual 200-18 (ICGM-Fuels, Lubricants, and Rocket Propellants).

A revised appendix to Air Force Manual 200-10 (ICGM-Electronics) was completed in March 1955.<sup>3</sup> This revision added 109 pages of text and 56 new illustrations to Air Force Manual 200-10 to aid collectors in the recognition of radar units and sites. ~~(CONFIDENTIAL)~~ (u)

Four Intelligence Collection Guidance Letters were prepared and forwarded to the Director of Intelligence for dissemination. These letters were prepared on subjects that did not justify publication of a lengthy manual, or were prepared as a temporary measure pending inclusion in a manual. The four subjects covered were: Microwave Facilities (IGGL NR. 12), USSR Development and Application of Heavy Presses (IGGL NR. 101), Identification of Electronic Installations (IGGL NR. 103), Heat Transfer as Applied to Air Weapons Development (IGGL NR. 104). ~~(CONFIDENTIAL)~~ (u)

(Uncl) Russian-English Glossary of Military and Technical Terms.

WBI

The Center completed the first edition of a Russian-English glossary of technical terms. This glossary is designed as a collection aid and a guide for all intelligence activities. It contains approximately 5500 Russian terms and their English equivalents, covering such subjects as aerodynamics, airframes, power plants, armament, meteorology, photography, and military rank. The glossary was distributed to ZI and overseas intelligence activities, and to numerous other agencies which have a need for it. (Uncl)

3. Air Force Manual 200-10A. (ICGM-Electronics)

(Uncl) INTELLIGENCE TRAINING:

The Requirements Division of the Center has the additional responsibility of selecting and training personnel engaged in technical intelligence collection activities. The Center operates the USAF Technical Intelligence Technician Course. The Officer Course has been on a stand-by basis since September 1954, leaving only one course active in the school. Economically, it is unsound for the Center to operate this one course since the average quarterly student load of 10 airmen requires a high instructor-student ratio. Two officers and 14 airmen were graduated from the Technical Intelligence School during the first half of the year. Since the Officer Course was in a stand-by status, the two officers received training on an informal basis. (Uncl)

4A3 On 31 May 1955 the Center dispatched a letter to the Commander, Air Training Command, proposing the transfer of the USAF Technical Intelligence School to the Training Command. The Training Command provides instruction courses in many technical fields as well as in intelligence and is better equipped to handle training matters and obtain maximum utilization of instructor personnel. The transfer of this school to the Training Command also would further consolidate the Air Force intelligence training program and eliminate a considerable amount of duplicate instruction in basic intelligence currently presented at Sheppard Air Force Base and at this Center. (Uncl)

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Headquarters, Air Training Command forwarded this Center's proposal to the Technical Training Air Force, Gulfport, Mississippi, by 1st indorsement dated 7 June 1955, stating that the proposal seemed feasible and authorized the Technical Training Air Force to communicate direct with ATIC to obtain basic data from which they could base a recommendation to Headquarters, Air Training Command. This proposal is expected to be accepted and transfer effected during the last half of 1955. (Uncl)

4A3

(Uncl) Air Attache Training:

Thirty-three Air Attache officers attended the three-week training program conducted by the Center. The training consisted of specialized briefings on ATIC requirements, and instruction and practice with the following photographic equipment: Leica 35 mm camera, K-20 Aerial camera, the Microfilm camera; the Minox camera and enlarger, and 16 mm Bell & Howell motion picture camera. Actual practice in film developing, print developing, and processing was included in the course. ~~(CONFIDENTIAL)~~ (u)

Seventeen Air Attache airmen received a course of specialized photography training that varied in length from three to eight weeks. The airman course included all of the photo training given the officers plus additional work that will enable the airmen to set up and operate a photographic darkroom. ~~(CONFIDENTIAL)~~ (u)

(Uncl) Photo Training:

A record number of six classes, numbering 67 officers, airmen, and civilians, received photographic training. Instruction consisted of approximately 1837 hours of classroom and practical demonstration exercises. The students included attaches, Air Technical Liaison Office personnel, and airmen technicians assigned to attaches.

(Uncl)

In April 1955 the modification of the Center's training aircraft, a C-47D, was completed by the Aircraft Engineering Branch, Wright Air Development Center. This modification consisted of the installation of two K-17 cameras in vertical camera wells at the aft end of the cargo compartment, and installation of an intervolometer for remote control of the cameras. The purpose of this modification is to train air attaches in the aerial photography portion of their mission. ~~(CONFIDENTIAL)~~ (u)

A K-17C aerial camera mock-up for training purposes was designed and constructed by Center technicians. This training device has proved to be a valuable aid for demonstration purposes and in preparing students for actual air operations training. (Uncl)

4A<sup>3</sup> The Photographic Section of the Center produced 9670 negatives and 9077 photographic prints in support of the Center mission.

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An unusually large number of prints were required in May and June 1955 as a result of the material received from the USSR in connection with the Soviet Air Show fly-by rehearsals. ~~(S)~~ (U)

(Uncl) COLLECTION DEVICES:

The Requirements Division made considerable progress in acquiring, improving, and testing special devices to be used by field personnel engaged in collection activities. (Uncl)

(Uncl) Lens/Camera Assemblies for Static Photography. Arrangements were made with representatives of the Hulcher Camera Co. and the Zoomar Corporation for the assembly of a 70-mm camera and an 80-inch lens for test and evaluation by the Center. This equipment was furnished on a loan basis at no expense to the Government. Tests were accomplished and specifications prepared, including changes necessary to make the assembly suitable for collection purposes. One prototype model will be purchased. (Uncl)

(Uncl) General Purpose Long Range Lens/Camera Assemblies. A contract was negotiated with the Wollensak Optical Company for three 50-cm lenses mounted on gunstocks with proper placement of a telescopic sight and triggering device for use with Leica M-3 camera. Acceptance test of these items was performed, and an SOP was prepared covering the use of this equipment. (Uncl)

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(Uncl) Forty-two and Eighty-nine inch Lens/Camera Assemblies.  
Design specification were prepared for the construction and calibration of the 42-inch lens/K-24 and 89-inch lens/Foton camera assemblies. After performance tests were made of these assemblies, an SOP was prepared and a limited number of personnel were trained in the operation of the equipment. (Uncl)

(Uncl) Sequence and Motion Picture Cameras. The Hulcher 70-mm sequence camera was placed under a study for possible use in the collection field. It combines a large format size (2½ x 2½ inches) with a rapid sequence of 5-20 frames per second in a small-size camera, in addition to being reliable and simple to operate. This camera can be a valuable aid in obtaining good photographs of fast, low-flying aircraft. ~~(CONFIDENTIAL)~~ (U)

(Uncl) Infra-Red Devices. A study was initiated on 15 June 1955 to explore the potential of infra-red devices to contribute to the collection of air technical information. This study included a complete program with the goal to provide usable, significant intelligence information for the Technical Analysis Division. Several infra-red devices are under development by the Air Force. They will be carefully examined for possible application to collection operations.

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(Uncl) Sonic and Data Recorders:

The Rome Air Development Center started on development of two recorders for this Center. One is a sonic recorder for recording engine sounds and it will be used in connection with the detailed analysis of sound being performed by Melpar, Inc. This analysis yields much engine performance data. The other recorder is a small pocket-size "note-taker" data recorder, which is a refinement of the Minifon and Aurex recorder ideas. It will be approximately the size of a package of king-size cigarettes. Delivery of both items is expected in 1956. ~~(SECRET)~~ (u)

On 25 April 1955 a controlled multi-place fly-by was accomplished in cooperation with the Strategic Air Command in order to obtain recordings. Turboprop recordings were made at Edwards Air Force Base on 23 May 1955. These recordings were obtained for use in basic comparisons. ~~(SECRET)~~ (u)

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AUTH: [unclear]  
INITIALS WJH  
DATE 29 Jan '54

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DECLASSIFY ON 31 DEC 1983

HISTORY OF  
AIR TECHNICAL INTELLIGENCE CENTER  
1 July 1953 - 31 December 1953

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Prepared by  
Policy and Management Office  
AIR TECHNICAL INTELLIGENCE CENTER  
31 January 1954

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(Uncl) Suspended Studies. Because of the new organizational concept proposal, the organizational studies of the Document Processing Program and the Reorganization of the Training Administration Section, reported in process during the preceding period, were deferred. (Uncl)

PERSONNEL:

(Uncl) Manpower Authorization and Personnel Strength. As of 1 July 1953, the Air Technical Intelligence Center was authorized a total of 634 personnel: 196 officers, 111 airmen, and 327 civilians. There was no change in manpower authorizations during the period.

~~(CONFIDENTIAL)~~  
(unclas)

Officer strength was maintained at 84 per cent of authorization. USAF-wide RIF action resulted in voluntary release of 18 officers serving on AD involuntarily and 5 released involuntarily by mandatory AF-wide quota. (Uncl)

Airmen strength averaged 102 per cent. Twelve airmen were voluntarily separated under the RIF program. On 31 December 1953, strength was 163 officers and 100 airmen. Orders had been received on 12 airmen replacements to arrive in January 1954. ~~(CONFIDENTIAL)~~  
(unclas)

Civilian strength decreased from 307 on 1 July 1953, to 302 on 31 December 1953. At the end of the period, the Center was 25 civilians under strength. ~~(CONFIDENTIAL)~~  
(unclas)

(Uncl) Reduction-in-Force (Civilian). Although the reduction-in-force (RIF) for civilians did not result in the elimination of any ATIC positions, the Center was affected by 15 bumping actions. Two

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(Uncl) Overseas Mobilization. A mobilization plan for ATIC personnel, at overseas stations, to insure uninterrupted collection and transmission of air technical information in the event of mobilization for war. ~~(CONFIDENTIAL)~~ *unclad*

(Uncl) Foreign Travel of USAF and Contractor Personnel. A plan to provide for the ATIC's being notified concerning foreign travel of Air Force contractor personnel who may have a potential for the collection of technical intelligence information. An Air Force directive will be proposed to implement this plan. ~~(CONFIDENTIAL)~~ *unclad*

(Uncl) East German Patent Office. A plan to collect air technical information from the East German Patent Office. ~~(CONFIDENTIAL)~~ *unclad*

COLLECTION EQUIPMENT:

(Uncl) Minifron Wire Recorder. The ATL Office in Wiesbaden, Germany, purchased and distributed 40 Minifron wire recorders for use in intelligence collection operations in the Air Force and for intelligence training activities in ATIC. ~~(CONFIDENTIAL)~~ *unclad*

(Uncl) Zoomar Lenses. Three Zoomar lenses, of 80-inch focal length, were purchased and were mounted to Exakta cameras. One of these cameras, so equipped, was sent to the ATL Office in Austria; another was held for future delivery to the same office pending completion of modifications by ATIC; and the third was retained by ATIC for test, evaluation, and training purposes. ~~(CONFIDENTIAL)~~ *unclad*

(Uncl) Miniature Cameras. In a test program to select the best all-purpose miniature camera for field operations, the Minox camera

# UNCLASSIFIED

UNCLASSIFIED

43

was chosen as the most promising among those examined to date. Five others have been tested thus far: the Robot, the Japanese "cigarette lighter" camera, the Ga-Mi, the "match box" camera, and the "throw-away" camera. ~~(CONFIDENTIAL)~~ UNCLAS

(Uncl) Film. In conjunction with the evaluation of miniature cameras, another test program was carried on for the selection of the best film for use under varying operational conditions. Results of these tests were inconclusive at the end of the reporting period. (Uncl)

PHOTOGRAPHIC MATERIAL RESEARCH:

In carrying out the ATIC's responsibility of maintaining routine surveillance of intelligence photography obtained by other intelligence agencies, the Technical Requirements Division reviewed 212 aerial reconnaissance prints, 159 spot still photography prints, and 89 movie films. In addition, 228 mission-review photo-intelligence reports were reviewed. ~~(CONFIDENTIAL)~~ UNCLAS

Six separate IBM listings of intelligence photography were reviewed. All these listings pertained to the USSR and satellite countries, and included listings of petroleum, electronics, aircraft and related equipment, world-wide science, manufactured items, and machinery products subjects. These listings provided help in locating sources of photographic material. ~~(CONFIDENTIAL)~~ UNCLAS

As sources for intelligence to be obtained through photographic material, the division found that the CIA had the most nearly complete and best organized photographic facility among all of those that were

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studied. The Reconnaissance Branch, D/I (AFOIN-1A2) and the Photo Records and Services Division of the Aeronautical Chart and Information Center also proved to be valuable sources of photographic intelligence. (~~CONFIDENTIAL~~) *Unclass*

(Uncl) FOREIGN EQUIPMENT COLLECTION. During the reporting period, several important items were obtained: (a) major components of a Soviet MIG-15 aircraft; (b) a complete, flyable Czech trainer, the ZLIN-26; and (c) a complete, flyable Soviet YAK-23 fighter-trainer aircraft. (~~SECRET~~) *Unclass*

COLLECTION GUIDANCE. Two new intelligence collection guidance manuals were planned: one on intelligence photography and one on atomic energy. A project was established to cover production of the photography manual; requirements for the publication were prepared in outline form; and the photographic training courses that are offered by Army, Navy and Air Force intelligence schools were reviewed, on visits to such schools, in an effort to discover new equipment and techniques. Tentative plans were approved for production of the manual on atomic energy. (~~CONFIDENTIAL~~) *Unclass*

(Uncl) AIR TECHNICAL LIAISON PROGRAM:

During the reporting period 15 officers, four airmen, and three stenographers began training for overseas assignments in the Air Technical Liaison Program. One officer began training for assignment as a Domestic ATLO. Eight officers, three airmen, and three stenographers departed for overseas duty stations, and two Domestic

ATLO's left for their duty stations within the United States. Four ATLO's began their training in the Strategic Intelligence School, and one airman and seven officers were sent to language schools. (CONFIDENTIAL)

Twenty-three officers, seven airmen, one civilian ATI Collection Specialist, and two contractors completed their overseas tours of duty and returned to the United States. Eight personnel returned to the Center for reorientation and interview by the Technical Analysis and the Technical Requirements Divisions. ~~(CONFIDENTIAL)~~ *Unclad*

Air Attaches from Greece, Finland, and India were also interviewed by personnel of the two divisions. ~~(CONFIDENTIAL)~~ *Unclad*

The following chart reflects the status of personnel authorized and assigned to the Air Technical Liaison program at the beginning and end of the period covered by this history:



~~SECRET~~

A COMPARISON OF ALLOTTED AND ASSIGNED PERSONNEL TO THE  
ATL PROGRAM AS OF 1 JULY 1953 and 31 DECEMBER 1953

	1 JULY 1953			31 DECEMBER 1953								
	TECHNICAL			ADM. STENO & LANG SP.			TECHNICAL			ADM. STENO & LANG SP.		
	AUTH	ASGD	IN TR	AUTH	ASGD	IN TR	AUTH	ASGD	IN TR	AUTH	ASGD	IN TR
AUSTRIA	25	19	1	11	11	0	21	16	0	12	12	0
GERMANY	58	46	12	26	24	0	53	36	10	26	24	1
*JAPAN	2	1	1	0	0	0	2	1	1	0	0	0
JAPAN	9	6	2	3	3	0	8	8	1	2	1	0
*BELGIUM	1	0	1	0	0	0	1	1	0	0	0	0
*ENGLAND	7	7	1	0	0	0	6	5	1	0	0	0
*FRANCE	7	6	2	1	1	0	8	7	1	1	1	0
*ITALY	1	2	0	0	0	0	1	1	0	0	0	0
*SWEDEN	1	1	0	0	0	0	1	1	1	0	0	0
*SWITZERLAND	1	1	0	0	0	0	1	1	0	0	0	0
*TURKEY	4	0	2	0	0	0	4	0	0	0	0	0

\* Officers are under the administrative jurisdiction of the Air Attache Offices and clerical personnel are furnished by the Air Attache Branch

UNCLASSIFIED

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## TECHNICAL SERVICES DIVISION

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

The organization and functions of the Technical Services Division<sup>1</sup> have remained substantially the same throughout the reporting period, with the exception of a revision in the structure of the Materiel Services Branch. On 14<sup>2</sup> September 1953, the supply, maintenance, and services functions performed by each of the former ATI Equipment and Office Equipment sections were regrouped homogenously to form the ATI Supply Section, and the Maintenance and Services Section. This change centralized supply control and records under one responsible officer, reduced workload by eliminating one memorandum receipt account, and improved both the quantity and quality of maintenance work and services performed by this branch. (Uncl)

Throughout the reporting period the division experienced difficulty in obtaining sufficient personnel, both military and civilian, to fill authorized positions. The major shortage was in the clerical field, where it was practically impossible to fill positions in the GS-2 and GS-3 grades. A base-wide shortage in this type of personnel

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History of the Air Technical Intelligence Center, 1 January - 30 June 1953  
p 50

2

Hq 1125th USAF FAG (ATIC): GO 11, 14 September 1953

indicates that this problem may be present for some time. As of 31 December 1953, the situation, personnel-wise, was as follows:

(Uncl)

	<u>Authorized</u>	<u>Assigned</u>	<u>Percentage of Authorized Strength</u>
Officers	36	32	89 %
Airmen	40	33	82 %
Civilians	118	101	85 %

During the period, the following changes occurred in the division's key personnel: (Uncl)

On 1 July 1953, Major Willis R. Loehr<sup>3</sup> was assigned as the division's executive officer.

On 19 August 1953, Colonel Morris H. Shedd<sup>4</sup> replaced Lt Colonel Elmer T. Harshbarger as division chief. Lt Colonel Harshbarger<sup>5</sup> became the deputy chief.

On 15 September 1953, 1st Lieutenant Frank J. Blaser, Jr.<sup>6</sup> was assigned as the division's administrative officer.

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<sup>3</sup>  
Hq 1125th USAF FAG (ATIC): PAM 32, 23 July 1953

<sup>4</sup>  
Hq 1125th USAF FAG (ATIC): PAM 37, 19 August 1953

<sup>5</sup>  
Ibid

<sup>6</sup>  
Hq 1125th USAF FAG (ATIC): PAM 42, 17 September 1953

At the end of the period, key personnel for the Technical Services Division were: (Uncl)

Chief	Colonel Morris H. Shedd
Deputy Chief	Lt Colonel Elmer T. Harshbarger
Executive Officer	Major Willis R. Loehr
Administrative Officer	1st Lieutenant Frank J. Blaser, Jr.
Plans and Operations Officer	Major Clarence R. Glasebrook
Chief, Documents Services Branch	Major Evan T. Hopkins
Chief, Material Services Branch	Captain Eugene R. Poe
Chief, ATI Indoctrination Branch	Major Thomas J. Gildea, Jr.

## II. ACTIVITIES

### DOCUMENT SERVICES:

(Uncl) Previously Reported Projects and Problems. The index of  
<sup>7</sup>ATIC publications, planned during the previous period, could not be  
 accomplished because of personnel shortage. The project to catalogue  
<sup>8</sup>visual aids did not progress for the same reason. The central subject  
<sup>9</sup>and locator file for documents was completed and is functioning

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<sup>7</sup>History of the Air Technical Intelligence Center, 1 January - 30 June 1953

<sup>8</sup>52  
<sup>9</sup>ibid  
 Ibid

**UNCLASSIFIED**

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efficiently. The backlog of biographic and facilities cards, reported for the preceding period, has become unimportant since responsibility for the maintenance of a central technical information file is soon to be transferred to the Technical Analysis Division. When the shift occurs, agencies outside the ATIC will be contacted to ascertain if they have any use for these cards. Those not disposed of in this manner will be destroyed. (Uncl)

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10

History of the Air Technical Intelligence Center, 1 January - 30 June 1953  
p 52

**UNCLASSIFIED**

(Uncl) Accomplishments. Production record for document services,  
1 July - 31 December 1953, is as follows: (Uncl)

Documents received and processed		36,227
ATIC Studies and Technical Reports Distributed Out- side the ATIC		17,321
Documents filed in the Center's Repository		40,487
Documents loaned by the Repository to Center Personnel		7,209
Documents furnished "Project Stork" (Batelle Memorial Institute)		10,358
On Automatic Distribution	9,337	
Per Special Request	1,021	
Documents Screened for Routing		48,291
Obsolete Documents Destroyed		8,277
Subject and Country Locator Cards Prepared and Filed		168,246
Translations Completed		1,679,578 (words)
By ATIC Personnel	519,677 (words)	
By Contractor Personnel	1,159,901 (words)	
<sup>11</sup> Reproduction		1,203,103 (pieces)

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<sup>11</sup>  
Methods used were multilith, microfilm, mimeograph, ditto, addressograph, graphotype, foto-flo, ozalid, and xerography.

TRAINING AND INDOCTRINATION:

(Uncl) USAF Technical Intelligence School. Fifty-nine persons graduated from this school during the last half of 1953. Eight were graduated as Intelligence Technical Officer,<sup>12</sup> and 51 as Technical Intelligence Technician.<sup>13</sup> In addition, 116 persons were given photographic training. The photographic laboratory processed 12,609 negatives and produced 8,423 prints. The school received a C-125 aircraft for use as a training aid. Another aircraft, an F-84, has been requested but has not been received. (Uncl)

(Uncl) ATLO Training. Arrangements were made for 26 persons to receive training to fit them for assignment as air technical liaison officers (ATLO's). Ten of this number completed their ATLO training during this period. ~~(CONFIDENTIAL)~~ *uncl*

(Uncl) Indoctrination for Air Attaches. Seven indoctrination sessions were arranged for Air Attache personnel. A total of 33 persons received the Air Attache indoctrination. (Uncl)

(Uncl) Airmen's Information and Education Program. Total attendance was 1,472. (Uncl)

(Uncl) Orientation Program for New Civilians. Eighty-two new personnel were given orientation. Of this number, 43 were assigned to the ATIC Work Pool where they were given additional training in

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<sup>12</sup>  
AFSC 2064  
<sup>13</sup>  
AFSC 20570

specific job skills while waiting for their security clearance. In addition, eight special orientation programs were arranged for a total of 23 visitors. (Uncl)

(Uncl) Debriefings. Thirty-five Korean returnees were debriefed. <sup>11</sup> (CONFIDENTIAL)

(Uncl) Security Indoctrination. Instruction on security regulations and practices was given to all the new personnel as a part of the orientation program. In addition, 119 security tests were administered and a refresher on orientation was given to the 37 students enrolled, during the period, in the USAF Technical Intelligence School. (Uncl)

MATERIAL SERVICES:

(Uncl) Foreign Equipment. 787 items, totalling 9,039 pounds were received and 559 items issued: 69 to the Technical Analysis Division, 339 to other agencies, and 151 to contractors. Reports were made to the Joint Technical Intelligence Sub-Committee on 711 items. 6,617 photographs were taken for Project 60002 <sup>2</sup> and 2,207 photos were forwarded to the Directorate of Intelligence, Headquarters USAF. ~~(CONFIDENTIAL)~~ uncl

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<sup>11</sup>  
A specialized term meaning to question or interview for the purpose of obtaining intelligence information. ~~(CONFIDENTIAL)~~ uncl

15

~~See page~~



UNCLASSIFIED

(Uncl) Plant Maintenance. The relocation of offices within the  
 16 Center that occurred during the period caused an increase in the workload of plant maintenance personnel. 233 work orders for minor maintenance were completed by the division's personnel, and 37 orders were placed with the Wright-Patterson Air Force Base's maintenance facility for major alterations and repairs. In addition, 40 work orders were initiated with the Base for communications services and 500 requests for office machine repair. (Uncl)

MISCELLANEOUS:

(Uncl) Testing Difficulties. Difficulty was encountered in the testing of photographic lenses. A camera was devised and assembled, using a large German photo-engraving camera as a test bed. This camera was altered by adding a modified 4 x 5 speed graphic back, thus permitting the testing of lenses at high apertures and shutter speed as high as .001 seconds. Conventional lenses of focal length up to 40 inches, and telephoto lenses of 60 inches focal length can be tested. ~~(SECRET)~~ *unclass*

(Uncl) Equipment Maintenance Problems. Maintenance of the Leica equipment used by ATIC and ATI field representatives was a problem. As a partial solution to this problem, an airman was

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16  
 See page 30

UNCLASSIFIED

UNCLASSIFIED

sent to a 30 day course of instruction in the repair of Leica equipment, given by E. Leitz, Incorporated, New York, New York.

~~(CONFIDENTIAL)~~ unclas

(Uncl) Distribution of Photographic Equipment. Distribution of the Heiland Strobosar V flash unit was begun. This unit was especially designed to meet specifications set down by ATIC. In addition, the Kilfitt Reflex Housing with 50mm lens and extension tubes is being distributed to the representatives in the field. This item is to be used in connection with collection of nameplate markings data. ~~(SECRET)~~ unclas

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**TECHNICAL ANALYSIS  
DIVISION  
(ATIA)**

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## TECHNICAL ANALYSIS DIVISION

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

During the period, the functions assigned this division remained the same as reported in the preceding edition of the history.<sup>1</sup> Only one change was made in the organizational structure. The Countermeasures Section of the Electronics Branch was redesignated the Signal Analysis Section, 23 September 1953.<sup>2</sup> (Uncl)

The Table of Distribution issued 1 July 1953 authorized 111 civilians, 44 officers, and 8 airmen for the division. This was one civilian and one officer less than allotted the preceding period. (Uncl)

Early in the period, Colonel Wayne L. O'Hern was assigned to the Center from student status at the Air War College. On 20 July 1953, Colonel O'Hern<sup>3</sup> was made chief of the Technical Analysis Division, vice Colonel Ray W. McDuffee<sup>4</sup> who replaced Lt. Colonel Thomas F. Weldon as deputy chief. Lt. Colonel Weldon, who had been serving in temporary duty status, was made assistant to the division chief and continued in

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1. History of the Air Technical Intelligence Center, 1 January-30 June, 1953, p 50.

2. Hq 1125th USAF FAG (ATIC):GO 12, 23 September 1953.

3. Hq 1125th USAF FAG (ATIC): PAM 31, 20 July 1953.

4. Ibid

UNCLASSIFIED

this capacity until he departed this station from temporary duty, 27 July 1953. Major Arthur L. Thayer,<sup>5</sup> who had been assistant to the division chief, was transferred to the Technical Requirements Division when Lt. Colonel Weldon was moved into the assistant's position. (Uncl)

Upon Lt. Colonel Weldon's departure, Captain Hoey of the Armament Section, Weapons and Industry Branch, was detailed to the Technical Analysis Division office as administrative staff officer. On 5 November 1953, Major John H. Westenhoff,<sup>6</sup> who had returned to the ZI from the air technical liaison program in Germany, was assigned to the division as administrative staff officer, and Captain Hoey<sup>7</sup> was transferred to the ATL Program Branch of the Technical Requirements Division. (Uncl)

At the end of the period, key personnel for the Technical Analysis Division were: (Uncl)

Chief	Colonel Wayne L. O'Hern
Deputy Chief	Colonel Ray W. McDuffee
Administrative Staff Officer	Major John H. Westenhoff
Technical Advisor	Mr. Charles F. Zimmerman
Advisor for Plans and Operations	Mr. Miles Goll
Acting Chief Aircraft and Propulsion Branch	Major James Tisdale
Acting Chief Weapons and Industry Branch	Mr. Nicholas Post
Chief, Electronics Branch	Lt Colonel Harry Johnston

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<sup>5</sup> Hq 1125th USAF FAG (ATIC): PAM 33, 7 August 1953.

<sup>6</sup> Hq 1125th USAF FAG (ATIC): PAM 49, 5 November 1953.

<sup>7</sup> Hq 1125th USAF FAG (ATIC): PAM 51, 25 November 1953.

## II. ACTIVITIES

Quantitatively, the figures below summarize project activity for the reporting period. (Uncl)

	Initiated 1 July to 31 December 53	Completed 1 July to 31 December 53	Cancelled 1 July to 31 December 53	Active as of 31 December 53
Aircraft & Propulsion	7	5	2	45
Electronics	2	1	0	24
Weapons and Industry	15	6	0	28

The following ATIC publications and other end products were issued in the cited technical fields during the six months covered: (Uncl)

	Aircraft & Propulsion	Electronics	Weapons & Industry	Total
ATIC Studies	11	1	4	16
Technical Reports	6	1	14	21
Preliminary Reports on Foreign Equipment	0	1	5	6
Air Intelligence Digest Articles	2	1	19	22
Technical Briefs	26	24	150	200
AF 112's	8	0	6	14

A more detailed description of the division's project activity follows:

UNCLASSIFIED

61

(Uncl) STATUS OF THE TECHNOLOGY OF AIRCRAFT METALLURGY IN THE USSR (30022). Work on the six studies and summary by the contractor proceeded at a satisfactory rate, although established deadlines were not met in all cases. Delay was due, primarily, to the unexpectedly large volume of information available and the additional workload imposed on the contractor by this Center. The basic study, "Status of Aircraft Metallurgy in the USSR - Aluminum,"<sup>8</sup> was distributed 26 August 1953, the study on magnesium,<sup>9</sup> 17 September 1953. Studies on titanium and stainless steels were approved by the Director of Intelligence on 9 September 1953 and 30 November 1953 respectively, but have not been published and distributed. ~~SECRET~~ *hmc d a r*

(Uncl) AIRCRAFT RUBBER TECHNOLOGY IN THE USSR (30049). Finalization of the study based on this project has been proceeding at a very slow pace at the contractor's activity. Cut-off date for acquisition of further information to be used in the study was established as 1 January 1953, and the report has been in collation, interpretation, and editorial phases since that date. Revised due date for receipt of contractor's report, 15 October 1953, has expired, and oral follow-up indicated probable receipt of the information early in calendar year 1954. In the meantime, however, a special technical report resulting from analysis of rubber seals from MIG-15 aircraft has been produced by the contractor for this Center. This, together with previously published reports, contains

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<sup>8</sup> ATIC STUDY 102-AE-52/3-34

<sup>9</sup> ATIC STUDY 102-AE-53/1-34

UNCLASSIFIED

UNCLASSIFIED

62

valuable data which will be reflected in the final basic study. ~~(S)~~

~~IDENTICAL~~ *uncl*

(Uncl) STATUS OF SOVIET SYNTHETIC RESINS AS APPLIED TO AIRCRAFT  
(30046). The basic study on plastics,<sup>10</sup> was received from the contractor  
on 30 October 1953. Necessary revisions were accomplished and a proof  
copy forwarded for internal ATIC coordination on 30 December 1953.

(Uncl) STATUS OF SOVIET CERAMICS AS APPLIED TO AIRCRAFT (30045)  
The distribution of the study, "Status of Ceramic Technology in the USSR",<sup>11</sup>  
fulfilled the requirements of this project. The project was closed on  
24 November 1953. (Uncl)

(Uncl) STATUS OF THE TECHNOLOGY OF AIRCRAFT AND GUIDED MISSILE IN-  
STRUMENTATION IN THE USSR, ITS SATELLITES AND OTHER COUNTRIES (30057). As  
a result of discussions with the contractor on 2 September 1953, it was  
decided that the contractor would produce a report by 1 December 1954  
covering the research and development capabilities of the USSR in in-  
strumentation. A study on the USSR Satellites is scheduled for comple-  
tion on 1 July 1955, and one on the NATO bloc countries between 1 January  
and 1 July 1955. These dates advance considerably the deadlines previous-  
ly established by this Center for receipt of the contractor's reports.  
The contractor's personnel visited domestic manufacturing facilities in  
Boston, Massachusetts; Chicago, Illinois; Downey, California; and Minne-  
apolis, Minnesota, to obtain information on domestic processes, facilities,

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ATIC STUDY 102-AE-52/7-34

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ATIC STUDY 102-AE-52/6-34

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and problems for use in evaluating Soviet technical capabilities. ~~(CONFIDENTIAL)~~

~~(CONFIDENTIAL)~~ *uncl*

(Uncl) EVALUATION OF SOVIET AIRCRAFT WEAPONS (30025). Four ATIC technical reports were distributed on 14 August 1953 in fulfillment of this project. These reports based on analyses performed by Armour Research Foundation, Chicago, Illinois, on the 7.62-mm SHKAS,<sup>12</sup> the 12.7-mm BEREZINA,<sup>13</sup> the 20-mm SHVAK,<sup>14</sup> and the 23-mm VYA guns.<sup>15</sup> The project was closed on 26 August 1953. ~~(CONFIDENTIAL)~~ *uncl*

(Uncl) SOVIET CAPABILITIES IN AIRCRAFT INSTRUMENT MANUFACTURING (30050). Copies of the sub-contractor's reports on evaluation of Russian flight indicators and an altitude gyro have been received and will be used by the main contractor in preparing the overall report. The date for distribution of this study had to be extended because of the workload imposed on the contractor's editorial department. A date for receipt of a coordination copy of the study has been re-established for 15 February 1954. ~~(CONFIDENTIAL)~~ *uncl*

(Uncl) MATERIALS AND METHODS ANALYSIS OF SOVIET 23-mm NS AUTOMATIC AIRCRAFT GUN (30054). An ATIC technical report, "Metallurgical and Methods Study of Selected Components of the Soviet 23-mm NS Aircraft Gun,"<sup>16</sup>

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- 12 TR-AE-8
  - 13 TR-AE-9
  - 14 TR-AE-10
  - 15 TR-AE-11
  - 16 TR-AE-16

# UNCLASSIFIED

UNCLASSIFIED

64

was distributed 26 August 1953. This fulfilled the requirements of the project, which was closed 23 September 1953. ~~(CONFIDENTIAL)~~ *uncl*

(Uncl) CHARACTERISTICS AND PERFORMANCE OF THE SOVIET 23-mm NR AUTOMATIC AIRCRAFT GUN (30061). This project was delayed by difficulties not foreseen at time of initiation. A more extensive scaling of photographs had to be made. The acquisition of a modified version of the 23-mm NR gun and a British report on its performance and characteristics made necessary considerable revision and expansion of the ATIC report. The results of tests made by the Naval Gun Factory on this weapon will also be used in the preparation of ATIC Technical Report TR-AE-34, to be distributed in March 1954. ~~(CONFIDENTIAL)~~ *uncl*

(Uncl) INVESTIGATION OF FOREIGN FIRE CONTROL EQUIPMENT (30037). A preliminary report based on intelligence reports and a brief examination of the MIG-15 fire control system was received from the contractor on 16 October 1953. It will be supplemented by test data obtained from an intact system transported to the contractor on 22 October 1953. The contractor has promised to furnish the complete report on the MIG-15 fire control system in late February 1954. ~~(CONFIDENTIAL)~~ *uncl*

*uncl* ~~(CONFIDENTIAL)~~ SPECIAL STUDY OF USSR AIRCRAFT FOR ESCAPE AND EVASION BULLETIN (10135)

Of the two remaining pilot's operating manuals on USSR aircraft to be prepared, the "IL-10 Pilot's Operating Manual,"<sup>17</sup> has been completed and sent for reproduction.

<sup>17</sup>

TR-AE-42

UNCLASSIFIED

UNCLASSIFIED

65

Work on the MIG-15 manual was temporarily suspended during this period because of the acquisition of higher priority equipment requiring the project monitor's undivided attention. Resumption of work on this manual has been scheduled for 1 February 1954.

The project monitor visited Headquarters, Strategic Air Command, Omaha, Nebraska, to discuss the Center's participation in the overall program in relation to SAC requirements for the information.

~~(CONFIDENTIAL)~~ *unclassified*

(Uncl) SOVIET AIRCREW EQUIPMENT (30060). The study, "Capability of Soviet Aircrew Equipment for Long Range Bomber Operations,"<sup>18</sup> was completed in rough draft format in December 1953. The project is progressing according to schedule. ~~(CONFIDENTIAL)~~ *unclassified*

(Uncl) MATERIALS APPLICATION IN SOVIET AIRFRAMES AND ENGINES (30055). A Call Letter was initiated 24 September 1953 against AF Contract 33(600)-23806, Supplemental Agreement #1, with Cornell Aeronautical Laboratory, Buffalo, N. Y., to compute gross input materials requirements to manufacture certain types of Soviet airframes and engines. In the interim, a table showing revised AMPR weights of twelve Soviet aircraft was forwarded to the Deputy Director for Targets, Directorate of Intelligence, on 14 October 1953 as partial fulfillment of the requirements of this project. ~~(CONFIDENTIAL)~~ *unclassified*

(Uncl) STATUS OF THE NUCLEAR ENERGY PROGRAM IN THE USSR (30051). Under the revised concept of the contractor's activity in support of

18

ATIC STUDY 102-AE-53/9-34

UNCLASSIFIED

UNCLASSIFIED

66

this Center's nuclear energy program, that is, acquisition only, this project proceeded in a satisfactory manner. ATIC personnel and contractor personnel made several trips to domestic facilities associated with nuclear propulsion of aircraft to become familiar with the program and problems of nuclear propulsion of aircraft in the USA. Discussions were also held with personnel of the Directorate of Intelligence, the Atomic Energy Commission, and the Central Intelligence Agency to establish more clearly the responsibility of this Center for atomic energy intelligence in the field of nuclear propulsion and in certain aspects of atomic weapons. ~~(SECRET)~~ UNCLAS

(Uncl) DEVELOPMENT OF ANALOG RATIOS FOR ANALYSIS OF VACUUM TUBE PRODUCTION FACILITIES (30062). This project was initiated upon written request from Deputy Director for Targets (AFOIN-3), 1 October 1952. The purpose of the study is to develop a technique for estimating the effectiveness of vacuum tube manufacturing facilities. A project proposal sheet (PPS-154) was submitted in May 1953 to authorize contractor work on the project. Copies of the final report will be due from the prime contractor on 15 February 1954. ~~(CONFIDENTIAL)~~ UNCLAS

(Uncl) STATUS OF THE TECHNOLOGY OF AIRCRAFT AND GUIDED MISSILE ELECTRICAL EQUIPMENT IN THE USSR AND OTHER COUNTRIES (30069). This project, initiated 22 July 1953 and approved 10 August 1953, is aimed to determine the state of development in certain foreign nations in aircraft and guided missile electrical equipment, both alternating and direct current systems. A contract proposal (PPS-139) was approved 21 August 1953 for a survey of open literature and foreign technical

UNCLASSIFIED

UNCLASSIFIED

67

intelligence to be accomplished during the period of 1 July 1953 to 1 January 1954. The contractor is to submit a progress report on 15 April 1954. Future plan of work will be made at that time.

~~(CONFIDENTIAL)~~ *unclara*

(Uncl) ANALYSIS OF SOVIET N-37 AUTOMATIC AIRCRAFT GUN (30076).

Instrumented firing tests and evaluation of the 37-mm N automatic aircraft gun have been performed by the Naval Gun Factory. These results, reported in Technical Report NAVORD 3286, NCF-T-64-53, will form the basis for the ATIC technical report. The estimated date of 24 February 1954 for distribution of the ATIC report will be delayed because of higher priority work. ~~(CONFIDENTIAL)~~ *unclara*

(Uncl) STATUS OF DEVELOPMENT AND CHARACTERISTICS OF SOVIET AND SATELLITE AERIAL PHOTO RECONNAISSANCE EQUIPMENT (30068). The need for determining the status of development and characteristics of Soviet and Satellite aerial photo reconnaissance equipment resulted in initiation of this project on 23 July 1953 and its approval 10 August 1953. A contract proposal (PPS-140) was approved 3 September 1953 for the collecting and processing of overt scientific literature and the processing of intelligence information released by this Center. A cut-off date of 1 October 1953 for acquisition of information and a report date of 15 December 1953 were established. The project progressed satisfactorily and a progress report was received from the contractor on 26 November 1953. A summary report was received from the contractor in December and is being reviewed prior to publication.

~~(CONFIDENTIAL)~~ *unclara*

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(Unc1) STATUS OF TECHNOLOGY OF AIRCRAFT AND GUIDED MISSILE MECHANICAL EQUIPMENT IN THE USSR, ITS SATELLITES AND OTHER COUNTRIES

(30066). This project was initiated 22 July 1953 and approved 7 August 1953. Its purpose is to determine the state of development in certain foreign nations in selected fields of aircraft and guided missile mechanical equipment (cabin air conditioning, oxygen, actuating, fuel and anti-icing systems, and in ground handling and servicing equipment). A contract proposal (PPS-141) was approved 26 August 1953 for a survey of the literature of all the countries involved, with major emphasis on USSR and its satellites. The submission of a progress report on the contractor's efforts was approved for 15 April 1954. At that time, definite dates for the submission of specific reports will be established. ~~(CONFIDENTIAL)~~ *unclass*

(Unc1) FOREIGN AIRCRAFT AND GUIDED MISSILE EQUIPMENT DATA

(30067). This project was initiated 22 July 1953 and approved 10 August 1953. Its purpose is to complete a series of handbooks containing information on the characteristics and performance of equipment installed in each significant foreign aircraft. The order of priority for the series was determined and the handbook format set up during this period. Work is on a continuing basis. ~~(CONFIDENTIAL)~~ *unclass*

(Unc1) CLASSIFIED PROJECT (20024). Continued effort has been devoted to dividing the various activities of this project into separate projects. Further effort along this line will be desirable for good administrative control of project activity. Progress on the various phases of this overall project is summarized in the

the following:

(Uncl) Regular Missions. At a conference with representatives from ATIC, SAC, and the Directorate of Intelligence, Headquarters USAF, it was decided that, effective 17 August 1953, Headquarters USAF and ATIC would rely upon SAC for radar order of battle information. This will bring work done under this project into better alignment with the ATIC mission and with the final analysis responsibility of this Center. ~~(SECRET)~~ *unclad*

(Uncl) Special Missions. Preliminary and final analysis of a group of special ferret missions continued throughout this period. A very high priority has been assigned to this phase and a major part of analytical time has been devoted to it. ~~(CONFIDENTIAL)~~ *unclad*

(Uncl) Airborne Intercept System. Considerable effort has been devoted to evaluating error sources of a typical S-band intercept and direction finding system. Because of the magnitude of the man hour requirements, Project 20072<sup>19</sup> was initiated to cover this activity.

~~(CONFIDENTIAL)~~ *unclad*

(Uncl) The Della Rosa System. On the basis of the final report issued by the Federal Telecommunications Laboratories on the four operational flights made during the months of June, July, and August 1952, an evaluation was made not only of the flights and the resulting reports, but of the system itself. The ATIC evaluation was prepared as a

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<sup>19</sup>

See page 74

Directorate of Intelligence, Hq USAF, paper and was discussed at a conference at ATIC with representatives of SAC, TAC, USAFSS, ARDC and Hq USAF. Substantial concurrence with ATIC conclusions was obtained.

(Uncl)

(Uncl) USAFSS Automatic Analysis System. ATIC, with the collaboration of WADC, acted as consultant to USAFSS in the development of machine analysis methods for intercept data. This involved evaluation of a contractor's proposal and several conferences with USAFSS and the contractor. ~~(CONFIDENTIAL)~~ *uncl*

(SECRET) Evaluation of Regular Intercept Data. Inconsistencies and apparent omissions of information continued to be evident in much of the data. An officer of the Directorate of Intelligence, Hq USAF, was briefed regarding this situation prior to his trip overseas for the purpose of determining causes for these inconsistencies and attempting to improve this situation in Europe. ~~(SECRET)~~ *uncl*

(Uncl) Instrumentation of Exploratory Aircraft. During this period, Project 20067 was set up to cover this activity. The accomplishments are detailed separately under this new project. <sup>20</sup> (Uncl)

(Uncl) USAFSS Antenna Systems. The antenna systems being constructed for the USAF Security Service under contract AF 33(600) 15660 have been completed and delivered to USAFSS. All other work in connection with this contract is reported under Project 20062. <sup>21</sup> (Uncl)

20

See page 75

21

See page 75



# UNCLASSIFIED

(Uncl) Video Recorder. Procurement action is still being awaited on a flying spot video recorder. The purchase request on this development was initiated during the previous reporting period. (Uncl)

(Uncl) Analogue PRF Indicator. Considerable time has been devoted to the development of a device to provide an instantaneous indication of the pulse recurrence frequency of a short burst of pulses, using one channel of a Brush oscillograph for the indication. This involved chiefly the modification of an AN/APA-54 pulse analyzer. The purpose was to avoid the time-consuming process of making spectrograms for each burst of pulses recorded in connection with the analysis of some special missions presently being made by the ATIC. Some success has been achieved, but further work will be required. (Uncl)

(Uncl) Direction Finding by Time Measurements. Observation revealed that under certain conditions it is possible to locate the radar with some degree of accuracy by use of this method. The Aeronautical Research Laboratory of WADC has made available the CARAC computer to compute data indicating the area of usefulness of this method. This data is now awaiting preliminary analysis prior to putting it into graphical form. ~~(SECRET)~~ *uncl*

(Uncl) Digital Pulse Analyzer. Requirements have been developed and discussions with possible contractors have been held on the development of an analyzer which will automatically print PRF, beam width, and scan rate directly from an audio recording of a scanning radar. Although the immediate use would be in connection with the special missions, the device would be generally applicable to signal analysis.

~~(SECRET)~~ *uncl*

# UNCLASSIFIED

(Uncl) Della Rosa Analysis. A number of conferences on machine analysis of Della Rosa AN/APD-4 recordings have been held with WADC and contractor personnel. The direction of future developments for this type equipment was also discussed during these conference. Although general agreements have been reached regarding future developments, little implementation of the agreements have been achieved to date. (Uncl)

(Uncl) AMC Proposal on IBM System. AMC proposed the implementation of a rather elaborate system for filing and sorting intercept data, using IBM equipment located at several analysis centers. The intended purpose was the reduction of man hours of analysis time. The proposed system had no provisions for data reduction, computation, etc. Neither the Strategic Air Command nor the ATIC were favorably inclined toward the proposal. (Uncl)

(Uncl) Crystal-Video Receiver Installation and Test. In collaboration with WADC, instructions were prepared for the installation of a crystal video intercept receiver developed by Haller, Raymond and Brown, Inc., in several types of aircraft. The first model of this receiver has been received and is awaiting installation in a WADC aircraft for flight tests to be conducted by WADC and ATIC. ~~CONFIDENTIAL~~

~~CONFIDENTIAL~~ UNCLAS

(Uncl) Standardization of Reporting Format. At the request of Hq USAF, considerable time has been spent in working with an activity of the Joint Electronic Warfare Panel to standardize an intercept reporting format. (Uncl)

(Uncl) PROJECT "BLUE BOOK" (10073). In the past six months, public interest in the subject of unidentified flying objects ("flying saucers") has increased considerably. This increase in interest has been caused, primarily, by the publication of several books and articles on the subject. As a result, there has been an increase in reports of citings and in inquiries concerning these objects. The Center has supplied news to the Office of Public Information, Headquarters USAF, Washington D.C., on a day-to-day basis, and has coordinated on the issue of a "Fact Sheet" to the press. (Uncl)

A constant effort has been made to improve both field-contact relations and the quality of reports on unidentified flying objects (UFO) received from the field. A step forward in this direction was made in December when an agreement was completed with Air Defense Command to have the 4602d AISS take over all field investigations of UFO sightings. A new Air Force regulation, AFR 200-2, has been written and coordinated to implement this agreement. In the future, a greater percentage of sightings should be solved before the report is sent to the ATIC. (Uncl)

An IBM statistical study on UFO sightings has been in progress for the past six months. While the finished report has not been received from the contractor, information on the general findings has been furnished. (Uncl)

These two means have reduced the project's workload and have aided in establishing new and improved methods of reporting and analysis. (Uncl)

UNCLASSIFIED

~~(CONFIDENTIAL)~~ *Unclass*

VERY LOW FREQUENCY NAVIGATION AND/OR COMMUNICATIONS IN RUSSIA (20006). This project involves a compilation of all available data on very low frequency installations, with particular stress on German very low frequency equipments in which the Soviets have shown an interest. Under an ATIC contract, Prof Schuman of the Technische Hochschule, Munich, Germany, is supplying information on European very low frequency navigation and/or communications installations. This activity was expanded in the past six months as a result of a visit to Prof Schuman by representatives of the ATIC. Details of the expansion constituting a second phase of the project, are covered in a TOP SECRET report.<sup>22</sup> ~~(CONFIDENTIAL)~~ *Unclass*

(Uncl) EVALUATION OF INTERCEPT OPERATIONS (20072):

The initial work on this project will be limited to the collection and evaluation of performance data on the AN/APA-17 direction finder and the related navigation. ~~(CONFIDENTIAL)~~ *Unclass*

The Princeton Analytical Research Group has undertaken the problem of experimental design and statistical evaluation of these operations. (Uncl)

Five flights out of Keesler AFB were made in late July 1953. Preliminary findings indicate that ECM<sup>23</sup> observers do a much better job than anticipated. Navigation was so poor that final conclusions

22

TS-3264

23

An aeronautical rating given to 17 electronics counter measurer officers.

UNCLASSIFIED

on separation of errors cannot be made until further flights can be made in which aircraft course and heading are known more precisely.

~~(CONFIDENTIAL)~~ *unclass*

(Uncl) COUNTERMEASURES CONSULTING SERVICES (20062):

The purpose of this project is to provide the ATIC with consulting service in the planning and implementing of a pilot radio intercept operation aimed at obtaining technical intelligence information on Soviet guided missiles. ~~(SECRET)~~ *unclass*

The contractor (consultant) will conduct original and exploratory investigations into techniques and requirements for collecting technical intelligence on guided missiles. To date, the contractor has now made two trips to Europe to act as consultant for ATIC and USAFSS.

~~(SECRET)~~ *unclass*

Studies concerning new methods of collecting guided missile information are well underway, and a meeting is planned for early January 1954 to determine a future program. Tests on sonic effects of missiles have been studied in detail. ~~(SECRET)~~ *unclass*

In connection with the machine-method-data-analysis-study portion of the project, the contractor activity has been directed to construct an automatic data reducing device for its latest crystal video receiving equipment. ~~(SECRET)~~ *unclass*

(Uncl) INSTRUMENTATION OF EXPLORATORY TYPE ELECTRONIC RECON-  
NAISSANCE AIRCRAFT B-29 (20067):

The purpose of this project is to assist SMAMA and WADC in the design and fabrication of an exploratory aircraft, in accordance with

UNCLASSIFIED

Hq USAF Operation Program OPU-52-11, Vol 1, May 1952. (Uncl)

Several meetings have been held to outline the general plan and discuss detailed equipment locations. At the present time the modification of the aircraft is nearly completed with first flight test a few weeks away. Equipment in the aircraft will give it the unusual capability of both a "ferret" type plus a special flying laboratory for electronic reconnaissance. ATIC has been instrumental in obtaining many special devices for installation in this aircraft. ~~(SECRET)~~ *unclas*

(Uncl) TECHNICAL ASPECTS OF USSR AIR DEFENSE (20056). This project was initiated 20 November 1952. Each of the three Technical Analysis Division branches have contributed to this study. The study was calculated to show present and future technical details and operational characteristics of Soviet weapons and equipment used in an air defense role. These include aircraft, radar, navigational devices, communications, aircraft weapons, anti-aircraft guns and rockets, and countermeasures devices. (Uncl)

(Uncl) INTELLIGENCE CONTRIBUTIONS FROM STUDIES OF THE UPPER ATMOSPHERE (20063)

The purpose of this project is to analyze and evaluate technical and scientific intelligence data available in research being made in the field of geophysics and other fields on the physical and chemical properties of the earth's atmosphere. ~~(SECRET)~~ *unclas*

A series of seven reports has been prepared to date which discuss the following: (1) The contractor's activities during his

UNCLASSIFIED

UNCLASSIFIED

European trip, 25 June to 1 August 1953; (2) several types of intelligence contributions that have been developed from studies of the earth's upper atmosphere; (3) possible influences of chemical reactions in the upper atmosphere produced by human activity; (4) some of the results of the contractor's participation in the planning of the program for the International Geophysical Year, 1957-1958; (5) plans for contractor coverage of the meeting of the International Union of Geodesy and Geophysics at Rome, September 1954. ~~(SECRET)~~ *Unclass*

A preliminary study has been made of the problem of varying upper atmospheric properties in order to determine intelligence opportunities and possible new defensive techniques. ~~(SECRET)~~ *Unclass*

(Uncl) SOVIET AND SATELLITE RADAR (20059), COMMUNICATIONS (20060), ELECTRONIC NAVIGATION (20061) HANDBOOKS:

These projects were initiated 9 April 1953 to meet a requirement of the Director of Intelligence, Hq USAF (AF0IN-2), for technical handbooks containing performance characteristics of currently operational Soviet and satellite radar, communications, and navigation equipments. ~~(CONFIDENTIAL)~~ *Unclass*

Project 20059, "Handbook of Soviet and Satellite Radar Equipment," was selected as the first handbook to be prepared by Contract AF33(600)8222, Call Letter No. 9, with the Capehart-Farnsworth Company. Considerable care has been given to the format for this handbook. This handbook, and the others, will be issued in loose-leaf form so that additions and superseding pages can be incorporated from time to time and thus keep the reports on a current basis. ~~(CONFIDENTIAL)~~ *Unclass*

UNCLASSIFIED

The communications handbook will be prepared next. Preparation will be started prior to completion of the radar handbook. ~~(CONFIDENTIAL)~~

~~(CONFIDENTIAL)~~ *unclars*

(Uncl) PREPARATION OF HANDBOOKS OF FOREIGN AIRCRAFT, OTHER THAN SOVIET (10150). The project is 60 percent completed. Two handbooks on Great Britain were completed and the coordination copies of the Scandinavian Handbook were prepared in December 1953. (Uncl)

*unclars*  
~~(CONFIDENTIAL)~~ MAINTENANCE OF PERFORMANCE AND CHARACTERISTICS HANDBOOK, USSR AIRCRAFT (10128). The annual revision to the USSR handbook was printed and distributed during December 1953. Based on intelligence information available, preliminary characteristics sheets of the Type 36 Soviet Helicopter was submitted to AFOIN during November 1953 for inclusion in the handbook of USSR Aircraft. ~~(CONFIDENTIAL)~~

~~(CONFIDENTIAL)~~ *unclars*  
*unclars*  
~~(CONFIDENTIAL)~~

SOVIET ASH-621r ENGINE (10101). The final rough draft copy of TR-AC-25 was received by the Propulsion Section 7 October 1953, approved within the Air Technical Intelligence Center on 23 December 1953. This report was forwarded to the contractor on the 29 December 1953. The contractor will prepare the report for final publication. The reproducible copy of TR-AC-19, "Description Report of the Soviet ASH 62-1r Engine," was received on the 12 October 1953 and was ready for distribution on the 30 December 1953.

~~(CONFIDENTIAL)~~ *unclars*  
*unclars*  
~~(CONFIDENTIAL)~~

SOVIET ASH-21 ENGINE (10104). The reproducible copy of TR-AC-21, "Performance Characteristics of the Soviet ASH-21



Aircraft Engine," received from the contractor, was approved for publication on 21 October 1953. IR-AC-21 was ready for distribution on the 3 December 1953, but distribution was delayed in order to comply with Executive Order 10501 regarding security classification.

~~(CONFIDENTIAL)~~ *Unclass*  
*unclass*

~~(CONFIDENTIAL)~~ SOVIET VK-107A ENGINE (10105). The dynamometer testing of the Soviet VK-107A engine has been completed by the contractor and the engine returned to the ATIC. The contractor forwarded the rough draft copy of the performance report to the ATIC on 16 December 1953. This report is being reviewed and coordinated with in Center. ~~(CONFIDENTIAL)~~ *Unclass*

*unclass* ~~(CONFIDENTIAL)~~ FOREIGN PROPELLERS-SOVIET (10107). Curtiss Wright Corporation has completed the analysis of the VISH-107c propeller and will forward the rough draft copy of this report to the ATIC for coordination and approval, in the near future. The analysis of the VISH-111-V-20 propeller is still in progress at Curtiss Wright.

~~(CONFIDENTIAL)~~ *Unclass*

*unclass* ~~(CONFIDENTIAL)~~ SOVIET SURFACE-TO-SURFACE GUIDED MISSILE CAPABILITIES (10139). The study,<sup>24</sup> prepared under this project, was completed in September and has been forwarded through coordination channels for approval. (Uncl)

~~(CONFIDENTIAL)~~ *Unclass*

FOREIGN AIRCRAFT ENGINE CHARACTERISTICS SUMMARY BOOK - USSR (10112). Distribution of the study, "Known Soviet Aircraft Engines (Designation - Characteristics)," <sup>25</sup> was completed on 27 October 1953. The project was terminated on the 2 December 1953.

~~(CONFIDENTIAL)~~ *Unclass*~~(CONFIDENTIAL)~~ *Unclass*

ANALYSIS OF THE AVIATION FUEL POTENTIAL IN SOME USSR CRUDE OILS (10166). ATIC Study No. 102-AC-53/9-34, which was prepared under this project, analyzes the compositions of 86 USSR crude oils. The Director of Intelligence coordination copy was forwarded on 2 September 1953. Distribution of the published study was accomplished on 4 December 1953. The project was terminated on 8 December 1953. ~~(CONFIDENTIAL)~~ *Unclass*

(Uncl) AIRCRAFT GROUP PERFORMANCE METHOD (10092). Collection of performance data under USAF Mil. Spec. 5011A for six "super-priority" British aircraft has been completed and the information incorporated in "Handbook of British Aircraft." The super-priority aircraft mentioned are the Swift, the Hunter, and the Javelin fighters and the Valiant, the Victor, and the Vulcan bombers. ~~(CONFIDENTIAL)~~ *Unclass*

~~(CONFIDENTIAL)~~ *Unclass* ATIC CONTRIBUTION TO NIS ON POLAND AND HUNGARY (10175):

Poland. Contributions to Section 71 and 76 were forwarded to the Director of Intelligence during September 1953. Contribution to Section 72 in December 1953.

25

ATIC STUDY 102-AC-53/3-34

~~(SECRET)~~ *unclas* Hungary. Contributions to Sections 70, 71, 72 and 76 were forwarded to the Director of Intelligence during December 1953.

~~(SECRET)~~ *unclas*  
~~(CONFIDENTIAL)~~ *unclas* ANALYSIS OF TYPE-31 AIRCRAFT (SOVIET BOMBER)  
 (10160). ATIC study "Analysis of Type-31 Aircraft,"<sup>26</sup> has been re-written incorporating revised performance data based on latest indications of the status of this aircraft. This study was approved by the Air Technical Intelligence Center and forwarded to the Directorate of Intelligence, USAF, during December 1953. ~~(CONFIDENTIAL)~~ *unclas*

~~(SECRET)~~ *unclas* YAK-23 (TYPE-28) SOVIET FIGHTER (10178). A complete flight test program was conducted on the YAK-23 during November 1953. A comprehensive report on this aircraft, including the flight test program, is currently in preparation for publication during early 1954. ~~(SECRET)~~ *unclas*

~~(CONFIDENTIAL)~~ *unclas* TYPE-38 SOVIET FIGHTER (10180). Preliminary evaluation of data submitted on this aircraft reveals it to be a derivative of the MIG-15. A report on this aircraft is being prepared and will be published in early 1954. ~~(SECRET)~~ *unclas*

(Uncl) MIG-15 SOVIET FIGHTER (10181). During the latter part of September 1953, a flight test program was conducted at Radens Air Base, Okinawa, by Wright Air Development Center and Air Technical Intelligence Center personnel. All information thus far gathered regarding this aircraft is being incorporated into one over-all ATIC study. ~~(SECRET)~~ *unclas*

UNCLASSIFIED

72

~~UNCLASSIFIED~~ *unclass*

SOVIET SURFACE-TO-AIR GUIDED MISSILES (10182).

This project was initiated in November 1953 to evaluate Soviet activity directed toward the development of guided missiles of the surface-to-air type, and to estimate the Soviet capabilities to develop guided missiles of this type. ~~(SECRET)~~ *unclass*

*unclass*

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SOVIET AIRCRAFT FUELS AND LUBRICANTS SAMPLE

ANALYSIS REPORT (10095). ATIC Study No. 102-AC-53/14-34 which is being prepared under this project, will present an intelligence evaluation of all significant fuels and lubricants samples received and analyzed since January 1952 to January 1954. The rough draft of the study will be submitted thru coordination channels for approval on or about 12 January 1954. ~~(SECRET)~~ *unclass*

*unclass*

~~CONFIDENTIAL~~

A STUDY OF SOME CHEMICAL COMPOUNDS INVESTIGATED

AS ROCKET FUELS BY THE SOVIET UNION (10172). Work on this study is progressing satisfactorily. A contractor has been engaged to calculate the theoretical performance of six significant rocket fuels with white fuming nitric and oxidizer. Completion of this portion of the work is expected by 15 February 1954. ~~(SECRET)~~ *unclass*

*unclass*

~~CONFIDENTIAL~~

MAINTENANCE OF KNOWN SOVIET AIRCRAFT ENGINE HAND-

BOOK (10185). This project, initiated and approved on 2 December 1953, will be used to maintain the performance sheets of ATIC Study 102-AC-53/3-34.

*unclass*

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ANALYSIS OF VK-1 TURBOJET ENGINE PARTS (10168).

Publication and distribution of final report, TR-AC-22, was completed on 21 July 1953. The report covered findings resulting from analysis

UNCLASSIFIED

UNCLASSIFIED

of miscellaneous engine pieces recovered from a VK-1 powered MIG-15 aircraft which crashed in the Soviet Zone of Austria. ~~(SECRET)~~ *uncl*

*uncl* ~~(SECRET)~~ DESCRIPTION AND PERFORMANCE OF SOVIET VK-1 TURBOJET ENGINE NO. 14105 (10173). Distribution of report, TR-AC-24, was accomplished on 15 December 1953. The report provides detailed analysis of component construction, and estimated performance data at altitudes up to 50,000 feet. ~~(SECRET)~~ *uncl*

*uncl* ~~(SECRET)~~ SOVIET VK-1A TURBOJET ENGINE NO. 26883, Series 6 (10179). Rough draft of report will be submitted for coordination, January 1954. (Uncl)

*uncl* ~~(CONFIDENTIAL)~~ SOVIET RD-500 TURBOJET ENGINE (10186). Acquisition phase of the project is nearing completion. The rough draft is scheduled to be completed by 1 March 1954. (Uncl)

UNCLASSIFIED

UNCLASSIFIED

84

AIR INTELLIGENCE  
OFFICE  
(ATIX)

UNCLASSIFIED

## AIR INTELLIGENCE OFFICE

## I. ORGANIZATION, FUNCTIONS, AND KEY PERSONNEL

The Air Intelligence Office was reorganized in October 1953,<sup>1</sup> in an effort to streamline the office and provide for a realistic approach to the problem of meeting current requirements. These requirements had been altered somewhat by changes in the international situation, mainly the armistice in Korea. This armistice had wiped out simultaneously the principal source of tactical intelligence information and the most urgent need for this information on a continuing basis. However, after the cessation of open hostilities, there remained the requirements for reliable strategic and air technical intelligence. These requirements were given a new and increased emphasis by the changing circumstances in international affairs. (Uncl)

To promote fulfillment of its mission effectively under these changed circumstances, the Air Intelligence Office was reorganized into two branches: the Briefing Branch and the Research and Publications Branch.<sup>2</sup> Three former branches (the Intelligence Survey Branch, the Intelligence Publications Branch, and the Special Intelligence Branch) were consolidated into the new Research and Publications Branch. The

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<sup>1</sup> Hq 1125th USAF FAG (ATIC): GO 14, 16 October 1953

<sup>2</sup> Ibid

86

UNCLASSIFIED

former Intelligence Briefing Branch remained the same, except for personnel changes and minor revisions in the designation: Briefing Branch.

(Uncl)

Functions of the office as a whole remained substantially the same as during the preceding period.<sup>3</sup> The office was still responsible for contributing to the dissemination of intelligence information, including air technical intelligence information, in the over-all effort of the Air Technical Intelligence Center to discharge its responsibilities to the United States Air Force. The Air Intelligence Office continued to serve also as the A-2 for the Air Materiel Command, under commitments made when the Air Technical Intelligence Center was established as an organization independent of AMC. The dissemination of intelligence information to all using agencies, through the media of oral briefings, periodical publications, and special reports, was continued, with the minor changes that had been dictated by the changed circumstances in the international scene. (Uncl)

With the reorganization of the Air Intelligence Office, came the physical move of the Briefing Branch from the Air Room in Building 262, (Hq. Air Materiel Command) to the Center, (Building 263). Even after the establishment of the Air Technical Intelligence Center as an organization independent of AMC, the Briefing Branch had stayed in the Air Room and had retained responsibility for maintenance of this room,

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<sup>3</sup>

History of the Air Technical Intelligence Center, 1 January - 30 June, 1953, p. 87

UNCLASSIFIED



under the agreement to serve AMC as the A-2. Though the main aspects of this agreement remained in effect, the branch's occupancy of the Air Room was relinquished in the autumn of 1953; responsibility for the maintenance of the Air Room was transferred to AMC; and the Briefing Branch was moved in with the rest of the Air Intelligence Office.

(Uncl)

At the end of the period, key personnel for the Air Intelligence Office were: Major Arthur A. Stanley, Chief; Mr. Lee H. Strahl, Chief, Publications Branch; M/Sgt. Robert A. Brown, Acting Chief, Briefing Branch. (Uncl)

## II. ACTIVITIES

(Uncl) ORAL BRIEFINGS. The pattern of the oral briefing program was revised to give greater emphasis to air technical intelligence and related information of particular interest to the Air Materiel Command, the Wright Air Development Center, and the components of these two organizations. Coverage of tactical intelligence (and even strategic intelligence, except for the strategic implications that are inherent in technical intelligence and related information) was substantially curtailed.<sup>4</sup> Closer liaison was established with the scientific and technical components of the Center, in the effort to devise a program that would better serve the needs of the Air Materiel Command and the Wright Air Development Center. (Uncl)

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<sup>4</sup> However, the limited tactical intelligence emanating from Indochina was covered, and the Briefing Branch continued to maintain preparations for the coverage of tactical intelligence from other areas.

(Uncl) PUBLICATIONS. Daily publication of AIR TECH INTSUM<sup>5</sup> was discontinued, because of the changes in the international situation. Publication was continued of the weekly ATIC BULLETIN, a compilation of air technical intelligence information and related data, for the use of various components of the National Military Establishment, including the Air Materiel Command, the Air Research and Development Command, the Bureau of Aeronautics of the Navy Department, and the Central Intelligence Agency. (Uncl)

(Uncl) ATIC REPORT CLINIC:

A new program, planned in the spring of 1953 and described briefly in the foregoing installment of this history,<sup>6</sup> was put into effect in July,<sup>7</sup> under the title of THE ATIC REPORT CLINIC, for the purpose of "stimulating and directing a continuing, Center-wide effort to insure clarity and general effectiveness in all correspondence, written reports, and oral briefings emanating from this Center."<sup>8</sup> Weekly meetings were held with scientific, technical, and administrative personnel

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A compilation of strategic and tactical intelligence information, with occasional items of particularly timely air technical intelligence information, primarily for the use of AMC and WADC. This publication, issued by the former Intelligence Publications Branch in collaboration with the Briefing Branch, had constituted a condensed summary of material covered in oral briefings for the AMC and WADC Commanders and staff officers.

6

History of the Air Technical Intelligence Center, 1 January-30 June, 1953, pp 89-90.

7

Air Technical Intelligence Center Office Instruction, No. 50-2, 23 July 1953.

8

Ibid.

UNCLASSIFIED

89

of the Center, for the discussion and constructive criticism of written reports and correspondence; and oral briefings, prepared by the Center's scientific and technical personnel (in addition to the briefing program of the Air Intelligence Office) were put through "dry-runs" in an attempt to perfect the briefers' organization of material, and their style, delivery, and stage presence. (Uncl)

The object of this program was, as the foregoing quotation from the implementing Office Instruction indicates, to assist personnel of the Center in their preparation of clear, effective communications, both written and oral; to discover and remedy common defects in speech and writing; and thus to aid the Center as a whole in disseminating its end products in the most effective form possible. (Uncl)

Attendance of Center personnel at the weekly meetings for the discussion of written reports was voluntary. The "dry-runs" of important oral briefings, however, were compulsory. As a result of this distinction between the informal weekly meetings and the "dry-runs" of oral briefings, there was necessarily a relaxation of emphasis on the weekly meetings late in 1953, when a requirement arose for the preparation of extensive programs of briefings for delivery early in 1954. Among the programs in process of preparation at the close of the year were two series of technical briefings by personnel of the Technical Analysis Division, for WADC, and Air Force contractors; a technical briefing for presentation in the Air University, and special briefings scheduled for delivery early in 1954 by personnel of the Briefing Branch. In the effort to assist the speakers in their preparation for these presentations,

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the Air Intelligence Office discontinued the program of weekly discussion meetings during the holiday season. These meetings will be resumed, however, at the first opportunity in 1954. (Uncl)

UNCLASSIFIED  
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INDEX

(Jul-Dec 1953)

Ackerman, Brig Gen John B., 11

Adjutant's Office. 31-35

AF Manual 181-4, 34

Airborne Intercept System, 69

Aircraft

- B-29, 75-76
- Handgooks, 77, 78
- Helicopter, 78
- IL-10, 64
- MiG-15, 61, 65, 81, 83
- Performance & Characteristics, 78, 80
- Type-31 Bomber, 81
- Type-38 Fighter, 81
- YaK-23, 81

Aircrew Equipment, 65

Air Defense, 76

Air Intelligence Office, 85-90

Air Room, 86, 87

Antenna Systems, 70

Arcier, Mr. A. Francis, 7, 10, 11, 29

Arnold, Mr. Clarence L., 29

ATI Supply Section, 48

ATLO/ATILO, 10, 11, 36, 44-46, 53, 59

Atmosphere, Upper, 76-77

Attaches, 53

Auten, Col Frank C., Jr., 36  
Automatic Analysis System, 70  
Awards, 29-30  
Ayer, Mr. Frederick, Jr., 11, 12  
Balchen, Col Bernt, 12  
Blasser, 1st Lt Frank J., Jr., 49, 50  
BLUE BOOK, 73  
Briefing Branch, 85  
Brown, MSgt Robert A., 87  
Brown, Maj Robert C., 31  
Brownell, Lt Col John L., 40  
Budget & Accounting Branch, 16, 17, 25  
Budget Programs, 20, 21  
Building 263, 86  
Bulletin, ATIC, 88  
Cameras, 42-43, 55-56  
Cape, Col Robert D., 40  
Carl, Mrs. Hazel, 29  
Caroni, Dr. Claudio, 12  
Central Intelligence Agency, 43  
Ceramics, 62  
Collection Equipment, 42-43  
Collection Guidance, 44  
Collection Planning, 41  
Commander, Office of, 5  
Communications, 74, 77-78

Comptrollers Branch, 16, 25  
Conferences, 10, 11  
Conners, 1st Lt Barbara H., 31, 32  
Conners, Capt George L., 19, 20  
Contract Administration, 22  
Correspondence Control, 33  
Countermeasures Section, 26, 58  
Countermeasures Services, 75  
Debriefings, 54  
DELLA ROSA System, 69-70, 72  
Digital Pulse Analyzer, 71  
Direction Finder, AN/APA-17, 74  
Direction Finding, 71  
Documents  
    Collection, 41  
    Controlled, 35-35  
    Production, 52  
Document Services, 50-52  
Electrical Equipment, 66-67  
Electronics Branch, 58  
1126th AI Services Sqdn., 29  
Engines, 78-79, 80, 82, 83  
Equipment Data, 68  
Escape and Evasion, 64-65  
Evaluations, 9-10  
Ewbank, Lt Col William L., 18, 19, 20  
Exploratory Aircraft, 70, 75-76

Facilities, 55, 86  
Film, 43  
Fire Control Equipment, 64  
Fiscal, 20-21  
Foreign Equipment, 44, 54  
Forms Management, 33  
Fuels, 80, 82  
Garland, Brig Gen William M., 5, 6, 7, 11, 12  
Gilden, Maj Thomas J., Jr., 50  
Glasebrook, Maj Clarence R., 50  
Goll, Mr. Miles, 59  
Guns, 63-64, 67  
Hampton, Capt Dixie C., 6, 7  
Handbooks, 77, 78, 82  
Harshbarger, Lt Col Elmer T., 49, 50  
Headquarters Section, 13-14  
Hedblom, Maj George C., 19, 20  
Historical Officer, 18  
Hoey, Capt, 59  
Honaker, Mr. John S., 7  
Hopkins, Maj Evan T., 50  
Hungary, 81  
Indoctrination, 53, 54  
Information Flow, 41  
Inspections, 36  
Inspector General's Office, 36-38  
Instrumentation, Aircraft & Missiles, 62



Intelligence Publications Branch, 85  
Intelligence Survey Branch, 85  
Intercept Data, 70  
Investigations, 36  
Johnston, Lt Col Harry  
Justice, Col Dane F., Sr., 5, 20  
Kadena AFB, Okinawa, 81  
Kirkland, Col Sanford H., Jr., 5  
Knapp, Mr. Mark I., 30  
Kuhn, Maj Coleman D., 36  
Lenses, 42, 55  
Lester, Maj Alec H., 19, 20  
Loehr, Maj Willis R., 49, 50  
Lubricants, 82  
Mail, 33  
Mammolite, Mrs. Ivaline R., 29  
Management Analysis Branch, 16, 17-18  
Manpower, 18-19, 25, 26, 27-29, 32, 40, 58  
Manuals, 64-65  
Manual, 20-1, 16  
Manufacturing, Instruments, 63  
Materials Applications, 65  
Materiel Services Branch, 48, 54-55  
May Day, Soviet, 41  
McDuffee, Col Ray W., 58, 59  
Meetings, 11, 25

Metallurgy, USSR, 61  
Missiles, 79, 82  
Mobilization Plan, 42  
Models, Foreign Aircraft, 41  
Moore, Clarence L., Jr., 13  
Moravic, Mr. Richard Z., 30  
Naugle, Mr. Charles A., 29  
Navigation, 74, 77  
Ness, Maj Patrick J., 40  
Nuclear Energy, 66  
Office Equipment Section, 48  
O'Hern, Col Wayne L., 58, 59  
O'Mara, Col John A., 6, 7  
Organization and Functions, 5, 16-17, 25, 26, 31-32, 40, 44-45, 48, 58,  
85-86  
Patent Office, East German, 42  
Performance Requirements Program, 22-24  
Personnel, 5-7, 19-20, 27-30, 40, 48-50, 58-59  
Personnel Branch, 16, 18-20  
Photography Intelligence, 43, 54, 56  
Photo Reconnaissance Equipment, 67-68  
Piatnitzka, Lt Col Michael J., 40  
Poe, Capt Eugene R., 50  
Poland, 80  
Policy and Management Office, 16-30  
Post, Mr. Nicholas, 59

Project Planning Authority, 8-9

Projects

Airborne Intercept System (No. 20072), 69  
Aircraft Performance (No. 10092), 80  
Aircrew Equipment (No. 30060), 65  
Air Defense (No. 20056), 76  
AMC Proposal on IBM system, 72  
Antenna Systems (No. 20062), 70  
ASH-21 Engine (No. 10104), 78  
ASH-62ir Engine (No. 10101), 78  
Automatic Analysis System, 10  
Aviation Fuel (No. 10166), 80  
BLUE BOOK (No. 10073), 73  
Ceramics (No. 30045), 62  
Communications (No. 20060), 77  
Countermeasures Services (No. 20062), 75  
Crystal-Video Receiver, 72  
DELLA ROSA System, 69-70, 72  
Digital Pulse Analyzer, 71  
Direction Finding, 71  
Electrical Equipment (No. 30069), 66-67  
Engine Characteristics (No. 10112), 80  
Engine Handbook (No. 10185), 82  
Engine, RD-500 (No. 10186), 83  
Engine, VK-1 Turbojet (No. 10168), 82-83;(Nos. 10173 & 10179), 83  
Equipment Data, Acft & Missiles (No. 30067), 68

Escape and Evasion (No. 10135), 64-65  
Exploratory Aircraft (No. 20067), 70  
Fire Control Equipment (No. 30037), 64  
Foreign Aircraft Handbooks (No. 10150), 78  
Fuels & Lubricants (No. 10095), 82  
Instrumentation (No. 30057), 62; (20067), 75-76  
Instrument Manufacturing (No. 30050), 63  
Intelligence on Poland & Hungary (No. 10175), 80-81  
Intercept Data, 70  
Intercept Operations (No. 20072), 74  
Intercept Reporting Format, 72  
Materials Application (No. 30055), 65  
Metallurgy (No. 30022), 61  
MiG-15 Fighter (No. 10181), 81  
Missile Capabilities (No. 10139), 79; (No. 10182), 82  
Missile Mechanical Equipment (No. 30066), 68  
Navigation (No. 20061), 77  
Nuclear Energy (No. 30051), 65-66  
Photo Reconnaissance Equipment (No. 30068), 67  
Propellers (10107), 79  
Pulse Recurrence Frequency Indicator, 71  
Radar (No. 20059), 77  
Resins, Synthetic (No. 30046), 62  
Rocket Fuels (No. 10172), 82  
Rubber Technology (No. 30049), 61

Summary, 60  
Type-31 Bomber (No. 10160), 81  
Type 38 Fighter (No. 10180), 81  
Upper Atmosphere (No. 20063), 76-77  
Vacuum Tube Production (No 30062), 66  
Video Recorder, 71  
VK-107A Engine (No. 10105), 79  
VLF NAV & COMM (No. 20006), 74  
Weapons, Aircraft (Nos. 30025, 30054, 30061), 63-64; (No. 30076), 67  
YaK-23 Fighter (No. 10178), 81  
Propellers, 79  
Publications, 32, 60, 88  
Pulse Recurrence Frequency Indicator, 71  
Radar, 77  
Reconnaissance, 75-76  
Recorders, 42, 71  
Records Administration, 33-34  
Reduction-In-Force, 25, 27-28  
Report Clinic, 88-90  
Reports, 60  
Reports Control System, 22  
Research and Publications Branch, 85  
Research, Photographic Material, 43-44  
Resins, Synthetic, 62  
Sanford, Maj Gen John A., 12  
Sargent, Maj W. K., 31, 32

Schum, CWO R.C., 31  
Security, 37-38, 54  
Shedd, Col Morris H., 5, 49, 50  
Signal Analysis Section, 26- 58  
Space Allocations, 30, 32  
Special Intelligence Branch, 85  
Special Orders, 32  
Stanley, Maj Arthur A., 87  
Strahl, Mr. Lee H., 87  
Strategic Air Command, 65  
Studies, 26, 27, 60, 75  
Summers, 1stLt Robert L., 13  
Surveys, 24  
Switzerland, 12  
Technical Analysis Division, 58-83  
Technical Requirements Division, 40-46  
Technical Services Division, 48-56  
Ten Year Plan, 8  
Thayer, Maj Arthur L., 59  
Tisdale, Maj James, 59  
Training, 24-25, 53-54  
Travel, 10, 11, 42  
Troop Commandant, 13-14  
UFO, (See BLUE BOOK)  
University of Pennsylvania, 13  
Vacuum Tube Production, 66  
Vieux, Mr. Robert, 12

Weapons, Aircraft, 63-64, 67  
Weldon, Col Thomas F., 58, 59  
Wertenbaker, Col George L., 6, 7, 12  
Westenhoff, Maj John H., 59  
Wirsig, Capt Leonard A., 40  
Wood City, 14  
Workload, 37, 43, 50-52, 53-54, 55, 60  
Zimmerman, Mr. Charles F., 59