

DEPARTMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25, D. C.

SUBJECT: Minutes of Army Security Agency Technical Committee Meeting No. 5

TO 10. Interested Members, Army Security Agency Technical Committee and Other Interested Agencies

1. A meeting of the Army Security Agency Technical Committee was held 10 June 1949, Room 117, Headquarters Building, Arlington Hall Station.
Attendance was as follows:

Chairman

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Lt Colonel Charles H. Hiser

Secretary

1st Lt. Mac C. Eversole

Members and Alternates Present

DEPARTMENT OF THE ARMY

GENERAL STAFF, UNITED STATES ARMY Research and Development Group

Lt Col C. F. Bhok, Member

ARMY SECURITY AGENCY
Office Special Assot to Chief
Materiel Section
Research and Development Division
Security Division

Mr. W. F. Friedman, Member Major A. V. Whitehead, Member Dr. S. Kullback, Member Dr. A. Sinkov, Member

ARMY FIELD FORCES
Development Section

Col W. J. Klepinger, Alternate

SIGNAL CORPS
Plans and Operations Division

Plans and Operations Division Engineering and Technical Division Capt R. H. Kiley, Alternate Mr. O. I. Lewis, Alternate

DEPARTMENT OF THE AIR FORCE
Headquarters, United States Air Force

Major John E. Morrison, Jr., Member

Observers Present

DEPARTMENT OF THE ARMY

ARMY SECURITY AGENCY
Research and Development Division

Mr. C. C. Wright Mr. H. C. Barlow

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Security Division
Operations Division

Mr. David Wolfand Mr. E. Dale Marston

DEPARTMENT OF THE AIR FORCE
Headquarters United States Air Force

Capt C. E. Melchar

Members Absent and Concurring

DEPARTMENT OF THE ARMY

ARMY FIELD FORCES
Development Section
Signal Section

Col Dana G. McBride Lt Col S. S. Hoff

2. The Subcommittee Reports listed below were recommended for approval by the Army Security Agency Technical Committee. Recommendations contained in these reports have been approved for the Chief, Army Security Agency by the Chairman, Army Security Agency Technical Committee and for the Secretary of the Army by a designated representative of the Director of Logistics, General Staff, United States Army. The Signal Corps representatives concurred with the provision that the Military Characteristics be forwarded to the Joint Communication Electronics Committee. Such action is taken on all Military Characteristics of this nature as prescribed by Department of the Army Memorandum 105-15-5, dated 22 September 1948.

Item	Subject	Action
30	Adoption of Military Characteristics for an Airborne Ciphony Equipment, ASAY-8	Approval of Military Characteristics
31 .	'Adoption of Military Characteristics for a Medium High Echelon Ciphony Equipment, ASAY-6	Approval of Military Characteristics

3. The Subcommittee Report listed below was recommended for approval. The recommendations were concurred in by all members present with the exception of the General Staff representative who witheld approval since the project is to fulfill an Air Force requirement and questioned the advisability of initiating this project with a 1-B priority before it was definitely established whether funds for the project would be furnished by the Army or Air Force.

Item	Subject,	Action
29 .	Aircraft Movement Communication Security Equipment, ASAM-15	Initiation of Project and approval of Nilitary Charact- eristics

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● REE ID: A581,63 ●

4. The following Memorandum for the Record of the Army Security Agency Technical Committee was approved for inclusion in the records of the committee:

Item

Subject

32

Project Title Change

5. There being no further business to come before the Committee it adjourned to meet at the call of the Chairman.

CHARLES H. HISER

Lt. Colonel, Signal Corps

Chairman, ASATC

Mac C. Eversole
MAC C. EVERSOLE

lst Lt., Signal Corps Secretary, ASATC

7 Incls

- 1. Subcom Rpt #29
- 2. D/F forwarding Rpt #29 to CSGLD
- 3. Subcom Rpt #30
- 4. Ltr Appr Rpt #30
- 5. Subcom Rpt #31
- 6. Ltr Appr Rpt #31
- 7. Memo for Record, Item #32

DEPARTMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25, D. C.

RECORD COPY 10 June 49

ITEM NO. 29

SUBCOMMITTEE REPORT FOR THE ARMY SECURITY AGENCY TECHNICAL COMMITTEE

SUBJECT: Aircraft Movement Communication Security Equipment, ASAM 15

1. REFERENCES

Letter to War Department, General Staff, Research and Development Division, from Chief, Research and Engineering Division AC/AS-4, Subject: Military Characteristics for Communication Security Equipment, dated 30 September 1946, with Indorsement from War Department, General Staff, Research and Development Division, to Chief, Army Security Agency, through the Director of Intelligence.

2. DISCUSSIONS

& Agencies concerned:

(1) Cognizant agency:
(2) Directing agency:
(3) Requesting agency:
(4) Participating agency:
Army Security Agency
U. S. Air Force
None

(5) Coordinating agency: SigC, AFF, USAF
 (6) Other probable interested agencies: U.S. Navy

b. Purpose:

There is a military requirement for a compact crypto-equipment, the operational characteristics of which will permit encipherment and decipherment of messages, particularly aircraft movement messages, faster than with equipment now available.

o. Descriptions

The ASAM 15 will be an on-line automatically synchronised teletype encipherment-decipherment equipment, with the automatic and imperseptible insertion of random text between messages.

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- do Related Material: None,
- e. Development History and Status:

Research and study has been accomplished under DA Project No. 1-29-40-001, "Preliminary Development of Cipher Machine Components."

f. Proposed Development:

- (1) It is proposed to develop ten (10) service test models for test by the USAF.
- (2) The estimated total cost is one million five hundred thousand dollars ($\$1_0500_0000_000$). FY 50 = $\$300_0000_0$ FY 51 = $\$500_0000_0$ FY 52 = $\$700_0000_0$
- (3) It is anticipated that development will be initiated FY 1950 and user tests completed FY 1953.

g. Security Classification:

The equipment while under development will be classified SECRET. Crypto clearance will be required by the contractor for development of the crypto-components.

3. RECOMMENDATIONS:

- a. Adoption of military characteristics for the ASAM 15 as shown in Exhibit $^{n}A^{n}$.
- b. Establishment of Department of the Army Project #1-29-41-007, ASAM 15.
- c. Assignment of a 1-B priority to Project #1-29-41-007 which is justified by the concepts of par 3a, SR 705-20-1.
 - d. Project #1-29-41-007 be classified SECRET.
 - e. Classification of the ASAM 15 as Development Type.
- f. The RDB Master plan Technical Objective of Project \$1-29-41-007 to be IO-5.

4. EXHIBITS:

Exhibit "A", Proposed Military Characteristics for ASAM 15.

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5. COORDINATION:

Coordination was accomplished with the following agencies:

Agency	Representative and Title
Department of the Army	Lt. Col. G. H. Fletcher Office, Chief Signal Officer
Department of the Army	Colonel Edwin R. Petzing Office, Chief Signal Officer
Department of the Army	Colonel Dana G. McBride Army Field Forces, Development Section
Department of the Army	Lt. Col. Stuart S. Hoff Army Field Forces, Signal Section
United States Air Force	Major John E. Morrison, Jr. Directorate of Communications.

Howard C. Barlow

HEWARD C. BARLOW Chairman, Cryptographic Subcommittee, ASATC

l Incl Exhibit "A" • SECRE 10: A581.63

Prepared by Cryptographic SubcomoASATC

Date 28 February 1949

Approved by ASATC

Date 10 June 1949

Submitted by USAF

Date 30 Sep 1946

EXHIBIT "A"

MILITARY CHARACTERISTICS FOR ASAM 15

I 👳 General Information

1. Objective

- a. There is a military requirement for a sompact crypto-equipment, the operational characteristics of which will permit encipherment and decipherment of messages, particularly aircraft movement messages faster than with equipment now available.
- b. The movement of all point-to-point aircraft traffic must be reported in a timely and adequate manner to permit communication with aircraft during flight and servicing upon arrival, to make possible the prompt identification of aircraft passing through sones and to inform headquarters concerning flight progress.
- c. A similar requirement exists for handling other than aircraft movement communications.

2. Proposed Service Employment

- a. This equipment may be utilized in all echelons.
- b. This equipment will be utilized in mobile and fixed installations.
- e. This equipment will be utilized on-line with wire/radio teletype communication systems.
- do The associated systems shall operate "startestep" at speeds of sixty (60) and one hundred (100) words per minute.

II - OPERATIONAL CHARACTERISTICS

le Security

a. The security shall be Grade I.

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- b. Time limits of the caryptoperiod shall be twenty-four (24) hours,
- c. Time period in which security of intelligence is assured shall be unlimited.
- d. The number of stations in a cryptonet shall normally be two (2). It shall be possible to establish multiple receiving stations when required.
- e. The maximum number of transmissions and/or word groups transmitted in a cryptonet within a cryptoperiod shall be limited to one hundred (100) words per minute for a twenty-four (24) hour period. Approximately eight hundred thousand (800,000) word groups.

2. Functional requirements

- a. The enciphered signal produced or accepted shall be a dc, neutral, "start-stop," teletype signal, twenty (20) or sixty (60) milliamperes. Line current shall be supplied for only the local loop.
- b. This equipment shall be capable of transmitting by wire/radio teletype automatic on-line communications.
 - c. The equipment shall operate over one (1) duplex teletype channel.
 - d. Types of data to be transmitted:
 - (1) The equipment shall accept perforated teletype tape.
 - (2) The clear text output shall be a dc, neutral, "start-stop," teletype signal acceptable by standard teletype receiving equipment of appropriate speed.
- e. The speed of operation shall be capable of enciphering or deciphering messages at a speed of sixty (60) or one hundred (100) word groups per minute.
- So Normally the key setting shall be accomplished once each cryptoperiod and no individual message setting shall be required.
 - g. Transmission of indicators is not required.

3. Range of Transmission/Reception

The equipment shall not adversely affect the range of the associated communication equipment,

4. Radio Interference Reduction

The equipment shall comply with the provisions of DA Memorandum 105-25-6, dated 10 June 1948, and DA Memorandum 105-25-8, dated 1 December 1948.

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5. Spurious Radiation of Clear Text

There shall be no perceptible radiation of the clear text signal.

6. Power Requirement

This equipment shall operate from 115/230 (\$10%) volts, 50/60 (\$10%) cycle ac power source.

7. Equipment Operating Position Requirements

The equipment shall operate when tilted up to twenty-five (250) degrees from its normal position.

III - PHYSICAL CHARACTERISTICS

1. Weight and volume factors

The desired weight shall be less than one hundred (100) pounds. The maximum acceptable weight shall be two hundred (200) pounds.

2. Operation, Transportation, Packaging, and Storage requirements

- a. This equipment shall withstand vibration and shock encountered in fixed station and mobile installations.
- b. This equipment shall be capable of operating in the following ambient conditions:
 - (1) Temperatures from \$20°F to \$125°F and storage at -80°F to \$160°F.
 - (2) Humidity from 0 to 95%
- on This equipment shall be capable of air transportability in Phase II. (AGAO-S 452.1 Ltr dtd 15 Sep 47, CSGRD/D-M).

5. Destruction Requirements

The equipment shall be provided with a simple emergency destruction means.

IV - EQUIPMENT OPERATION AND MAINTENANCE CHARACTERISTICS

1. Operating Time

The equipment shall be capable of continuous twenty-four (24) hour operation except for the time required to perform normal preventative maintenance.

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2. Permissible Scope of Continuous and Periodic Adjustments, Tuning, Calibrating, Maintenace, etc.

This equipment shall require not more than a thirty (30) minute period daily for preventative maintenance and operational adjustment (which includes key setting).

3. Maximum Acceptable Preparation Periods from Storage of Shipment Conditions to Secured or Power Off Conditions

This equipment shall be capable of being prepared from a storage condition to a power off condition in a period of one (1) hour.

4. Maximum Acceptable Preparation Periods from Secured or Power Off Conditions

- a. The equipment shall require a maximum of five (5) hours to prepare from a power off to a standby condition (heaters on, filaments lighted, etc.)
- b. The equipment shall require a maximum of thirty (30) minutes to prepare from a standby to a fully operating condition.

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DISPOSITION FORM

File No. CSGID-ASA

Subject: Initiation of DA Research and Development Project #1-29-41-007, Aircraft Movement Communication Security Equipment, ASAM-15

TO: CSGLD

From: CSGID-ASA

DATE:

Comment #1

Attn: R&D Gp

For: Lt Col C. F. Buck

Lt Eversole/147 Ext 216

- 1. Subcommittee Report No. 29 was presented at ASATC Meeting #5, 10 June 49 and recommended for approval.
- 2. The recommendations contained in the basic report were concurred in by all members present with the exception of the General Staff representative who requested that the Committee action be referred to the CSGLD by formal action for further consideration. A listing of members and observers attending is included in the minutes of the meeting.
- 3. The recommendations contained in Subcommittee Report #29 are hereby approved. Approval of your office is recommended.

FOR THE DIRECTOR OF INTELLIGENCE:

l Incl Subcom Rpt #29

JOHN A. GEDDES

Lt. Colonel, Signal Corps

John a. Geddes

Acting Deputy Chief Army Security Agency

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DEPARIMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25. D. C.

RECORD COPY 10 June 49

TTEM #30

Subcommittee report for arm security agency technical committee -

SUBJECT: Adoption of Military Characteristics for an Airborne Ciphony Equipment, ASAY 8

1. REFERENCES:

a. Letter to War Department General Staff, Research and Development Division, from Chief, Research and Engineering Division AC/AS-4; subject: Military Characteristics for Communication Security Equipment, dated 30 September 1946, with indersement from War Department General Staff, Research and Development Division to Chief, Army Security Agency through the Director of Intelligence.

b. Revised U. S. Air Force Military Characteristics for Airborne Ciphony Equipment resulting from conferences held at Army Security Agency on 14 November 1946 and 21 November 1946 with representatives of the U. S. Air Force.

2. DISCUSSION:

a. Agencies Concerned:

(1) Cognizant Agency: Army Security Agency
(2) Directing Agency: Army Security Agency

(3) Requesting Agency: USAF (4) Participating Agencies: None

(5) Coordinating Agencies: USAF, AFF, Sig C(6) Other Probable Interested Agencies: Navy

b. Purpose:

The U. S. Air Force has a military requirement for voice security equipment for use in low echelon air-to-air, and air-to-ground communications providing security to include the minimum classification of CONFIDENTIAL and which is designed for use with aircraft communications equipments and their complementary ground equipments.

c. Description:

These Military Characteristics cover the requirements for

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voice security equipment having Grade IV security for use in low echelons. The equipment is intended for use with standard VHF or UHF line-of-sight aircraft radio equipments and will be installed in any standard aircraft.

d. Related Material:

Home.

e. Development History and Status:

Project No. 1-29-20-002 was approved 20 Nebruary 1947. Design of an airborne ciphony equipment is underway.

f. Proposed Davelorment:

A laboratory model will be constructed at Army Security Agency and six (6) service test models will be constructed under contract for test by the U.S. Air Force.

g. Security Classification:

The classification of the Militery Characteristics is SECRET.

3. RECOMMENDATIONS:

The Subcommittee recommends:

The adoption of Military Characteristics for ASAY 8 as shown in Exhibit "A".

4. EXHIBITS:

a. Exhibit "A", proposed Militery Characteristics for ASAY 8, dated 13 May 1949.

5. COORDINATION:

Coordination was accomplished with the following agencies:

Agency	Representative and Title
Department of the Army	Colonel W. J. Klepinger Army Field Forces
Department of the Air Force	Major John E. Morrison, Jr. Directorate of Communications

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Representative and Title

Department of the Army

Colonel E. R. Petzing Lt. Colonel G. H. Metcher Office of the Chief Signal Officer

Clarence C. Wright

Clarette C. Writer Chairman, Ciphony, Cifax and Civision Subcommittee

1 Incl Exhibit "A"

• REF ID: A58163

	Data Approved by	CCC Subcommittee 13 May 1949 ASATC
MILITARY CHARACTERISTICS FOR ASAY 8	Date	10 June 49
	Submitted by	USAF
	Date	30 Sept 46

I - GENERAL INFORMATION

1. Objective

a. The U. S. Air Force has a military requirement for voice security equipment for use in low echelon air-to-air, and air-to-ground communications providing security to include the minimum classification of CONFIDENTIAL and which is designed for use with aircraft communications equipments and their complementary ground equipments.

2. Proposed Service Employment

This equipment:

- a. Will be used in low echelons.
- b. Will be used air-to-air, and air-to-ground.
- c. Shall be capable of being installed in standard fighter, bomber or transport aircraft.
 - d. Will be used with complementary Air Force ground equipments.

II - OPERATIONAL CHARACTERISTICS

1. Security

This equipment shall:

- a. Have Grade IV security.
- b, Provide crypto-security for at least two weeks,
- c. Provide for multi-station net operation.

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- d. Be so constructed that the security of subsequent transmissions will not be endangered by the enemy's possession of the general mechanism, provided he is not in possession of the specific key.
- e. Be capable of handling highly stereotyped air-to-air and air-to-ground weather messages.

2. Functional Requirements

This equipment shall:

- a. Accept clear, conversational speech and reproduce speech or speeche equivalent undistorted and readily intelligible.
 - b. Be operable from a standard microphone.
- c. Be designed primarily for use with standard VHF or UHF line-of-sight aircraft radio equipment and be readily adaptable to complementary ground acts.
 - d. Be provided a key variable without the use of a tool.

3. Range of Transmission/Reception

. a, This equipment shall not cause a loss in transmission range in the circuit in which it is being used.

4. Radio Interference Reduction

a. This equipment shall provide a signal not unduly affected by interference and atmospherics and which shall not interfere with the operation of other communications equipment.

5. Stability

a. This equipment shall not require constant control of synchronization.

6. Power Requirement

a. This equipment shall be operable from power sources of 115/230 volts 50/60 cps AC; 115 volt 400 cps AE; and 24 to 28 volt DC; by means of separable power supplies.

7. Special Features

a. This equipment shall introduce no perceptible lag between the time of transmission and the time of reception.

III - PHYSICAL CHARACTERISTICS

1. Weight and Volume Factors

a. This equipment shall not weigh more than 15 pounds, exclusive of power supply.

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2. Operation, Transportation, Packaging, and Storage Requirements

a. This equipment shall be so constructed as to be capable of operation and storage under climatic conditions as specified in AGO letter, File AGAO-8400.24 (12 April 1948) CSGSP-M, subject: Temperature Requirements for the Performance and Storage of U. S. Army Equipment and Supplies, dated 15 April 1948

3. Destruction Requirements

a. This equipment shall be provided a simple emergency destruction means.

REF ID: A58163

DEPARTMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25, D. C.

CSGAS-20

10 June 1949

SUBJECT: Approval of ASATC Subcommittee Report No. 30

TO: Interested Members of Army Security Agency Technical Committee and Other Interested Agencies

- l. Subcommittee Report No. 30 dated 10 June 1949, Subject: Adoption of Military Characteristics for an Airborne Ciphony Equipment, ASAY 8, having been presented by Mr. C. G. Wright, CSGAS-72, at ASATC Meeting No. 5 above date, was recommended for approval. This recommendation was concurred in by all members present, a listing of whom is included in the minutes of the meeting.
 - 2. The recommendations contained in subject report are hereby approved.

 FOR THE CHIEF, ARMY SECURITY AGENCY:

CHARLES H. HISER

Lt. Colonel, Signal Corps

Chairman, ASATC

Mac C. Guersole

lat Lt., Signal Corps

Secretary, ASATC

Approved by order of the Secretary of the Army

Lt. Colonel, GSC

R&D Group, Logistics Div, GSUSA

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DEPARTMENT OF THE ARMY HEADQUARTERS ARMY SECURITY ACRESTY WASHINGTON 25, D. C.

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SUBCOMMUTER REPORT FOR ARMY SECURITY AGENCY PECHNICAL COMMETTEE

SUBJECT: Adoption of Military Characteristics for a Medium Figh Scholon Ciphony Equipment, ASAY 6

1. REFERENCES:

- a. Letter to War Department General Staff, Research and Development Division, from Chief, Research and Engineering Division AC/AS-4; subject: Militery Characteristics for Communication Security Equipment, dated 30 September 1946, with indorsement from Wer Department General Staff, Research and Davelopment Division to Chief, Army Security Assessy through the Director of Intelligence.
- b. Revised U. S. Air Force Military Characteristics for Medium High Mobelon Cirbony Equipment resulting from conferences held at Army Security Agency on 14 November 1946 and 21 November 1946 with representatives of the U. S. Air Force.

2. DISCUSSION:

a. Amenaios Concerned:

Cognizant Agency:
Directing Agency:
Requesting Agency:
USAF

Participating Agencies: None

Coordingting Agencies: USAF, AFF, Sig C Other Probable Interested Agencies: Nevy

b. Purpose:

The U.S. Air Force has a military requirement for voice security equipment for command and conference purposes among high and medium echalons. This equipment shall be designed to afford security from enemy analysis to voice communications of all classifications transmitted over radio and wire facilities.

c. Description:

These Military Cheracteristics cover the requirements for

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voice security equipment having Grade II security for use in high and medium echelons over normal long range wire and radio voice circuits.

d. Related Material:

- (1) SMSAIN which is classified as vertire recerve equipment.
- (2) ASAY 2, 3 which are classified as standard type equipments. (Sig C. Technical Committee Meeting #380 Item 1531 with 2 Indorsements)

e. Development Ristory and Status:

Project No. 1-29-22-003 was established 22 April 1947. A laboratory model of a medium high echolon ciphony equipment has been constructed and is currently undergoing field tests.

f. Proposed Development:

Three (3) service test models will be constructed under contract for test by using egencies.

g. Security Classification:

The classification of the Militery Characteristics is SECRET.

3. RECOMMENDATIONS:

The Subcommittee recommends:

The adoption of Military Characteristics for ASAY 6 as shown in Exhibit "A".

4. EXHIBITS:

a. Exhibit "A", proposed Military Characteristics for ASAY 6, dated 13 May 1949.

5. COORDINATION:

Coordination has been accomplished with the following agencies:

Agency

Representative and Title

Department of the Air Force

Najor John E. Morrison, Jr.

Directorate of Communications

Colonel W. J. Klepinger

Army Field Forces

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Agency

Representative and Title

Department of the Army

Colonel B. R. Retaing Lt. Colonel B. H. Fletcher Office of the Chief Signal Officer

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Civision Supposedition

● REF ID: A58163.

	Prepared by Date Approved by Date	CCC Subcommittee 13 May 1949 ASATC 10 June 49
MILITARY CHARACTERISTICS for ASAY 6	Submitted by Date	USAF 30 Sept 46

I - CENERAL INFORMATION

1. Objective

a. The U.S. Air Force has a military requirement for voice security equipment for command and conference purposes among high and medium echelons. This equipment shall be designed to afford security from enemy analysis to voice communications of all classifications transmitted over radio and wire facilities.

2. Proposed Service Employment

This equipment:

- a. Will be used in medium and high echelons.
- b. Will be used in fixed and semi-fixed installations.
- c. Shall be operable with corresponding communications equipment of the Department of the Army.

<u>II - OPERATIONAL CHARACTERISTICS</u>

1. Security

This equipment shall:

- a. Have Grade II security.
- b. Provide crypto-security for at least five years.
- c. Provide for at least four station conference operation per cryptonet.
- d. Be so constructed that the security of subsequent transmissions will not be endangered by the enemy's possession of the general mechanism, provided he is not in possession of the specific key.

2. Functional Requirements

This equipment shall:

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- a. Accept clear, conversational speech and reproduce speech or speech-equivalent undistorted and readily intelligible.
- b. Be operable from a standard telephone handset if consistent with other characteristics.
- c. Be capable of transmitting over normal long range voice circuits (wire, carrier, and/or radio) which accommodate amplitude modulated signals of a nominal 300 cps to 3500 cps band.
 - d. Be provided a key variable without the use of a tool.
 - e. Provide for six subscriber operation off one terminal.
- 1. Emit a clear, strident warning to both subscriber and attendant when transmission in the clear is occurring.

3. Range of Transmission/Reception

a. This equipment shall not cause a loss in transmission range in the circuit in which it is being used.

4. Radio Interference Reduction

a. This equipment shall provide a signal not unduly affected by interference and atmospherics and which shall not interfere with the operation of other communications equipment.

5. Power Requirement

a. This equipment shall be operable from a 115/230 volt, 50/60 cycle power source and be provided with a standard power plant capable of continuous operation.

III - PHYSICAL CHARACTERISTICS

1. Weight and Volume Factors

a. This equipment shall be separable into components each not to exceed a two man load.

2. Operation, Transportation, Packaging, and Storage Requirements

This equipment shall:

- a. Be light, sturdy, compact and of the simplest possible design consistent with other requirements.
- b. Be so constructed as to be capable of operation and storage under climatic conditions as specified in AGO letter, File AGAO-8400.24 (12 April 1948) CSGSP-M, subject: Temperature Requirements for the Performance and Storage of U. S. Army Equipment and Supplies, dated 15 April 1948.

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- c. Be housed in a submersion-proof carrying-case or cases which are of sufficiently rugged and weatherproof construction to withstend normal usage in the field.
- d. Be transportable in any standard dargo aircarft and be capable of utilization in Phase II of air operations.

5. Destruction Requirements

a. This equipment shall be provided subsidiary means for complete destruction of the specific key and such other component parts as are necessary to security.

IV - EQUIPMENT OFFRATION AND MAINTENANCE CHARACTERISTICS

1. Special Features

a. This equipment shall be capable of being installed by two men.



DEPARTMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASTINGTON 25, D. C.

CSGAS-20

10 June 1949

SUBJECT: Approval of ASATC Subcommittee Report No. 31

TO: Interested Members of Army Security Agency Technical Committee and Other Interested Agencies

- 1. Subcommittee Report No. 31 dated 10 June 1949, Subject: Adoption of Military Characteristics for a Medium Hi Echelon Ciphony Equipment, ASAY 6, having been presented by Mr. C. C. Wright, CSGAS-72, at ASATC Meeting No. 5 above date, was recommended for approval. This recommendation was concurred in by all members present, a listing of whom is included in the minutes of the meeting.
 - 2. The recommendations contained in subject report are hereby approved.
 FOR THE CHIEF, ARMY SECURITY AGENCY:

CHARLES H. HISER
Lt. Colonel, Signal Corps
Chairman, ASATC

MAC C. EVERSOLE

1st Lt., Signal Corps
Secretary, ASATC

Approved by order of the Secretary of the Army

Lt. Colonel, GSC

R&D Group, Logistics Div, GSUSA



DEPARIMENT OF THE ARMY HEADQUARTERS ARMY SECURITY AGENCY WASHINGTON 25, D. C.

RECORD COPY 10 June 1949

ITEM NO. 32

MEMORANDUM FOR THE RECORD OF THE ARMY SECURITY AGENCY TECHNICAL COMMITTEE

SUBJECT: Project Title Change

1. Reference:

IRS to ASATC thru AS-70 and AS-20 with 3 comments, Subject: Changes in Project Titles, dated 27 April 1949.

- 2. The following project title changes were approved by above referenced IRS and are hereby made a matter of record:
 - a. DA Project #1-29-32-001.
 Old Title: Hi Frequency Multicouplers and Antennas.
 New Title: Multicouplers.
 The old title is descriptive of only one phase of this project.
 - b. DA Project #1-29-32-004.
 Old Title: Interim Precision Recorder, ASAN 11.
 New Title: Precision Disc Recorder Reproducer, ASAN 11.
 The old project title is not descriptive.

Nac C. Eversole)
MAC C. EVERSOLE

lst Lt., Signal Corps

Secretary, ASATC