

SECRET

GENERAL HEADQUARTERS

6-2

FAR EAST COMMAND

File. 311:23

Date From Jan **To** Dec 1949

Line No 61 **To**

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Electronics, Optics, Telecommunications-Electronics & Telecommunications Manufacturers in Japan ICM #9, dtd 18 Feb 48, subj: "Electronics, Optics, Telecommunications." June through Oct 49 14 Dec 49

T/1, G-2, GHQ, FEC

1

TID, G-2, GHQ, FEC

Investigations conducted by TID

Forwarded herewith seven (7) copies G-2 Technical Intelligence Detachment Report No. 7, Volume VII, dated 3 December 1949, "Electronic and Telecommunications Manufacturers in Japan."

The purpose of this study is to determine by investigation and physical inspection of plants, the current status of principal manufacturers of electronic and/or telecommunications goods in Japan with respect to location and condition of plants and facilities; organization for business and technical operations; level and intensity of research and development; nomenclature, quantity and quality and cost of goods manufactured; identity and history of key personnel; consignment of electronic and/or telecommunications goods in Japan or to foreign markets.

This volume deals comprehensively with the activities of FUJIKURA DENSHI KK, manufacturers of communication and electric wire and cable; NIPPON KAITEI DENSHI KK., a firm engaged in the manufacture and repair of submarine cable; and SUMITOMO DENKI KOGYO KK, the second largest producer of electric and communication wire and cable in

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(Subj: Electronics, Optics, Telecommunications - cont.)

JAPAN. The individual reports are supplemented by advertising brochures of the particular companies and by photographs of plant interiors.

Attention is invited to Volumes I-VI of Report No. 7, which have been forwarded previously to ID: a) Vol I was forwarded 22nd September 1949 (TB 2369-4563); b) Vol II, 5 October 1949 (TB 2404-4473); c) Vol III, 21 October 1949 (TB 2446-4609); d) Vol IV, 1 November 1949 (TB 2462-4702); e) Vol V, 8 November 1949 (TB 2484-4634); f) Vol VI, 19 November 1949 (TB 2522-4654). These volumes pertain to the activities of various other electronic manufacturers in Japan.

For the Assistant Chief of Staff, G-2:

DISTRIBUTION:

- 7 ID D/A
- 1 A-2 FRAF
- 1 Sig O, GHQ
- 1 CCS, GHQ
- 1 TID, (file)

DAIT-202,1487,569, ICM No. 9
BID - 4407.0100 through 4407.0400; 7300; 7500

J. H. POLK
Lt Col, GSC
Asst Exec, G-2

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Dispatches
16 Dec 49
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Japan

TB 2522 No. 4654

Manufacturers in Japan

Electronics, Optics, Telecommunications, - Electronics and Telecommunications

T/I. G-2, GHQ, FEC

ICM No. 9 dtd 18 Feb 48 subject: Electronics, Optics, Telecommunications
19 Nov 1949

1

TID. G-2, GHQ, FEC

Investigations conducted by TID

Forwarded herewith seven (7) copies G-2 Technical Intelligence Detachment report No. 7, Volume VI, dated 10 November 1949, "Electronics and Telecommunications Manufacturers in Japan."

The purpose of this study is to determine by investigation and physical inspection of plants, the current status of principal manufacturers of electronic and/or telecommunications goods in Japan with respect to location and condition of plants and facilities; organization for business and technical operations; level and intensity of research and development; nomenclature, quantity and quality and cost of goods manufactured; identity and history of key personnel; consignment of electronic and/or telecommunications goods in Japan or to foreign markets.

This volume deals with the activities of the NIPPON VICTOR KK, manufacturers of phonograph records and radio equipment and FURUKAWA DENKI KOGYO KK, the largest producer of electric communication wire and cable in Japan.

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TB 2522 No. 4654

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Attention is invited to Volume I-V of Report No. 7, which have been forwarded previously to ID: a) Vol I was forwarded 22 September 1949 (TB 2369-4563); b) Vol II, 5 October 1949 (TB 2404-4473); c) Vol III, 21 October 1949 (TB 2446-4609); d) Vol IV, 1 November 1949 (TB 2462-4702); e) Vol V, 8 November 1949 (TB 2484-4634). These volumes pertain to the activities of various other electronic manufacturers in Japan.

For the Assistant Chief of Staff, G-2;

J. H. Polk
J. H. POLK
Lt Col, GSC
Asst Exec, G-2

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- 1 CCS, GHQ
- 1 TID file

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Japan

TB 2520 No. 4653

Electronics, Optics, Telecommunications, - Japanese Submarine Cables

T/I, G-2, GHQ, FEC

ICM No. 9, dtd 18 Feb 48, subj: Electronics, Optics & Telecommunications
Aug 1949 17 Nov 1949

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G-2 Technical Intelligence Detachment

See below

1. Forwarded herewith six (6) copies TID report No 8, Volume I on Japanese Submarine Cables (HONSHU to HOKKAIDO; HOKKAIDO to Adjacent Islands), dated 10 November 1949. The information contained in this report was obtained from the Japanese Ministry of Telecommunications, US Navy Hydrographic Charts and TID investigations and inspections of cable houses, repeater stations and telephone offices in northern HONSHU and HOKKAIDO.

2. This study concerns the current status of Japanese telecommunication facilities from HONSHU to HOKKAIDO and HOKKAIDO to Adjacent Islands with respect to submarine cable routes; physical structure and condition of submarine cables; connecting landlines and circuits through repeater stations; speed of transmission, type of transmitters and receivers used, and the system of communication; proposed changes in telecommunication circuits.

3. The collated information pertaining to 40 submarine cables extending from HOKKAIDO to HONSHU and adjacent Islands is presented in six appendices to the report.

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Appendices 1 and 2 are general references for determining location of cable terminals and repeater stations. Charts of the 40 submarine cable routes are shown in Appendix 3. Physical details of repeater stations and landing terminals, determined by investigation and inspection are given in Appendix 4. The narrative of Appendix 4 is supplemented by a series of photographs and diagrams. Statistics and tabulated data relative to the submarine cables are correlated in Appendices 5 and 6.

For the Assistant Chief of Staff, G-2:

J. H. POLK
Lt Col, GSC
Asst Exec, G-2

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TB 2484 4634

Electronics, Optics, Telecommunications-Electronics & Telecommunications Manufacturers in Japan
T/I, G-2, GHQ, FEO ICM No. 9 dtd 18 Feb 49, subject: "Electronics, Optics and Telecommunications"

Aug-Oct 1949

8 Nov 1949

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G-2 Technical Intelligence Detachment

TID investigations of manufacturing plants

1. Forwarded herewith seven (7) copies of TID report No. 7, Volume V, dated 29 October 1949, entitled "Electronics and Telecommunications Manufactured in Japan."

2. The purpose of the study is "to determine by investigation and physical inspection of plants, the current status of principal manufacturers of electronic and/or telecommunications goods in Japan with respect to a) location and conditions of plants and facilities, b) organization for business and technical operations, c) level and intensity of research and development, d) nomenclature, quantity and quality and cost of goods manufactured, e) identity and history of key personnel, f) consignment of electronic and/or telecommunications goods in Japan or to foreign markets."

3. This volume deals with information concerning the SHOWA DENSHU DENRAN K. K. and NIPPON DENSHU K. I., manufacturers of electric and/or communications wire and cable, and YAMABAKA DENKI K. K., manufacturers of radics and replacement parts.

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4. Attention is invited to volumes I-IV of report No. 7, which have been forwarded previously to MID. These volumes pertain to the activities of various other electronics manufacturers in Japan. Volume I was forwarded 22 September 1949 (TB 2369 4563); volume II, 5 October 1949 (TB 2404 7773); volume III, 21 October 1949 (TB 2446 4609); volume IV, 1 November 1949 (TB 2462 4702).

For the Assistant Chief of Staff, G-2:

J. H. POLK
Lt Col, GSC
Asst Exec, G-2

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TB 2462 No. 4702

Electronics, Optics, Telecommunications, Vol IV of Report 7

T/I, G-2, GHQ, FEC

ICM #9, dated 18 Feb 48

June-Oct 1949

2 Nov 1949

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Technical Intelligence Detachment
G-2, GHQTID Investigations of Manu-
facturing plants

Forwarded herewith seven (7) copies of "Electronics and Telecommunications Manufacturers in Japan, "Vol IV of Report 7 dated 25 Oct 49, in the series entitled ELECTRONICS, OPTICS, TELECOMMUNICATIONS. Earlier reports in the series have been forwarded previously. GHQ Technical Intelligence Detachment investigations for this series are on a continuing basis to be concluded by January 1950 and reports will be forwarded as investigations are completed.

Purpose of the investigations is to determine the current status of principal manufacturers of electronics and telecommunications goods in Japan with respect to the following: Location and condition of plants and facilities; organization for business and technical operations; level and intensity of research and development; nomenclature, quantity, quality and cost of goods manufactured; identity and history of key personnel; consignment of the manufactured goods to markets in Japan or to foreign markets.

Manufacturing plants of the following three companies, whose products consist principally of radio equipment, are covered in this report:

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TB 2462 No. 4702

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1. TONE MUSEN KABUSHIKI KAISHA (Tone Radio Co., LTD), located in Osaka. Home type receivers are the principal product. Items in production in June 49 included National and Superheterodyne receivers and some component parts.

2. ANRITSU DENKI KABUSHIKI KAISHA (Anritsu Electric Co., LTD), in Tokyo. Since its founding in 1931 this company has been prominent in Japan as a first-rank manufacturer of telecommunications equipment. Principal items in production are radio transmitters and receivers, radio direction finders, VLF field intensity meters, side band intensity measuring instruments, precision frequency meters, telephone switchboards, and carrier telephone equipment.

3. SANRIKU SHINKU KOGYO KABUSHIKI KAISHA (Sanriku Vacuum Tube Manufacturing Co., Ltd) located at Shiogama in Miyagi Prefecture. This company was established in May 45 as a subsidiary of Tokyo Shibaura Denki K.K. and has produced transmitting tubes and hot cathode mercury rectifier tubes. Due to reduced demand for the products plant operations were suspended 12 June 49 for an indefinite period.

For the Assistant Chief of Staff, G-2:

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Asst Exec, G-2

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TB 2446 No. 4609
 Electronics, Optics, Telecommunications--Electronics & Communications Manufact-
 T/I, G-2, GHQ, FEC ICM No. 9 Section III, "Radio Communications, etc"
 18 Feb 48
 Jun-Oct 1949 21 Oct 1949

1 G-2 Technical Intelligence Det.

3293

TID investigations of manufacturing plants

1. Forwarded herewith seven (7) copies TID report No. 7, Volume III dated 10 October 1949 entitled, "Electronics and Telecommunications Manufacturers In Japan."

2. The purpose of this study is "to determine by investigation and physical inspection of plants, the current status of principal manufacturers of electronic and/or telecommunications goods in Japan with respect to: a) location and condition of plants and facilities, b) organization for business and technical operations, c) level and intensity of research and development, d) nomenclature, quantity and quality and cost of goods manufactured, e) identity and history of key personnel, f) consignment of electronic and/or telecommunications goods in Japan or to foreign markets. This volume deals with information concerning the two manufacturing companies, IWASAKI TSUSHINKI KABUSHIKI KAISHA (Iwasaki Communications Instrument Manufacturing Co., Ltd.) and TOHOKU KINZOKU KOGYO KABUSHIKI KAISHA (Tohoku Metal Industry Co., Ltd.)

3. Attention is invited to Volume I of report No. 7, dated 1 September 1949 which covers data pertaining to the manufacturing plants of TEIKOKU TSUSHIN KK, SHIBUYA

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TB 2446 No. 4609

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ROENTGENIX SHISAKUSEO and NIPPON COLUMBIA KK forwarded to MID 22 September 1949 (TB2369 No. 4563) and to Volume II of report No. 7 dated 30 September 1949 which contains information concerning TOYO TSUSHINKI KK and HAYAKAWA DENKI KOGYO KK forwarded 5 October 1949 (TB 2404 No. 4473)."

For the Assistant Chief of Staff, G-2:

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J. H. POLK
 Lt Col, GSC
 Asst Exec, G-2

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Electronics, Optics, Telecommunications, Electronics & Communications Manufacturing -
ICM No. 0 Section III, Radio Communications, 475

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G-2 Technical Intelligence Det. TID investigations of man-
ufacturing plants

1. Forwarded herewith seven (7) copies TID report No. 7, Volume III dated 10
October 1947 entitled, "Electronics and Telecommunications Manufacturers in Japan."

2. The purpose of this study is "to determine by investigation and physical in-
spection of plants, the current status of principal manufacturers of electronic and/or
telecommunications goods in Japan with respect to: a) location and condition of plants
and facilities, b) organization for business and technical operations, c) level and
intensity of research and development, d) nomenclature, quantity and quality and cost
of goods manufactured, e) identity and history of key personnel, f) composition of
electronic and/or telecommunications goods in Japan or to foreign markets. This volume
deals with information concerning the two manufacturing companies, IWASAKI TOSHUKI
KABUSHIKI KAISHA (Iwasaki Communications Instrument Manufacturing Co., Ltd.) and
TOHOKU KINOKU KOGYO KABUSHIKI KAISHA (Tohoku Metal Industry Co., Ltd.)

3. Attention is invited to Volume I of report No. 7, dated 1 September 1947 which
covers data pertaining to the manufacturing plants of TOHOKU TOSHUKI KK, SHIBUYA

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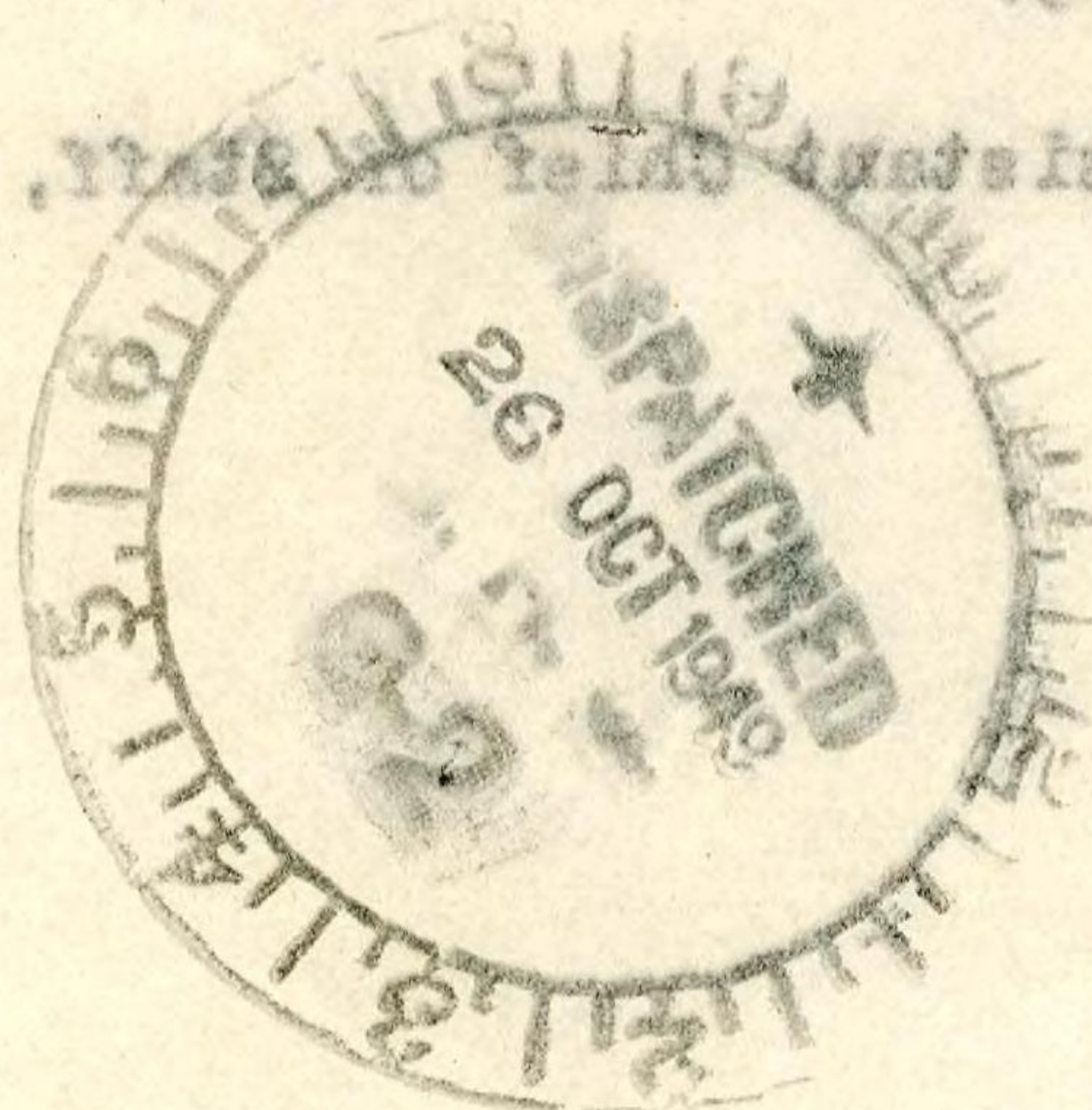
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TB 2446 No. 4609

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FORWARDED TO: HONORABLE SHISAKUSHO and NIPPON COLUMBIA KK forwarded to MID 22 September 1947 (T/2446)
No. 4609) and to Volume II of report No. 7 dated 30 September 1947 which contains
information concerning TOYO TOSHUKI KK and HAYAKAWA DENKI KOGYO KK forwarded 5 October
1947 (TB 2446 No. 4613).

For the Assistant Chief of Staff, G-2:



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DATE - 26 Oct 1947
ICM #

BID - 4407.0000; 4407.0300; 4308.0000; 8300.0000

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J. H. FOLK
Lt Col, GSC
Asst Exec, G-2

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DEPARTMENT OF THE ARMY
GENERAL STAFF, UNITED STATES ARMY
Intelligence Division
Washington 25, D.C.

CSGID-ID-13

Date: 3 May 1949

SPECIFIC REQUEST FOR INFORMATION, CONTROL NO. SC-770

SUBJECT: International Radio Communications in Korea

TO : Commander-in-Chief, Far East
ATTN: A. C. of S., G-2
APO 500, c/o Postmaster
San Francisco, California

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71. Requirement:

a. Following information regarding the radio phone facilities from Seoul to San Francisco operated by the RCA Communications Inc., from September 1947 until December 1948 when the facilities were sold to the Korean Government:

- (1) How many talking channels are there?
- (2) What type of equipment is used?
- (3) What type of antennas are used?
- (4) What is the exact location of this equipment?
- (5) How many outlets does this equipment have in Korea?
- (6) During what hours can calls be placed?

b. How many and what type international radio circuits does the US Army operate in South Korea?

c. How many and what type international radio circuits does the Soviet Army operate in North Korea?

2. Reply within 60 days of receipt. Unsatisfied portions will be forwarded after suspense date.

3. All replies to the requirement will refer to the above Control Number.

FOR THE DIRECTOR OF INTELLIGENCE:

GEORGE S. SMITH
Colonel, GSC
Chief, Intelligence Group
Intelligence Division, GSUSA

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Korea

TB 1935, No. 4424

International Radio Communications in Korea

T/I, G-2, GHQ, FEC Ltr CSGID ID-13, Control #SC-770, dtd 3 May 49, subj as above

DATE OF INFO: 7 Jun 49

DATE OF RPT: 30 June 1949

INCL: 1

PREP. BY: G-2 USAFIK

SOURCE: Sig O, USAFIK

CONFIDENTIAL

Forwarded herewith on OCS 17 is a report prepared by the Assistant Chief of Staff, G-2, USAFIK, answering each specific requirement outlined in reference letter above.

For the Assistant Chief of Staff, G-2:

J. H. POLK
Lt Col, GSO
Asst Exec, G-2

MEMO FOR RECORD:

Attached Dept of Army ltr, CSGID ID13, Control No. SC-770, subj: "Internat'l Radio Communications in Korea", dtd 3 May 49, requests specific info regarding radio phone facilities from Seoul, Korea, to San Francisco, Calif, for the period Sept '47 to Dec '48.

This OCS 17 fwds to ID GSUSA a report prepared by AC/S G-2, USAFIK from observations of Sig Off, USAFIK, and answers each of the specific requirements of basic letter.

DMW
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LJF R.H.C.
26-6021

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JUL 1 - 1949
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REF: 8410. OR 8121.0203

CONFIDENTIAL
DATE OF RPT: 30 June 1949
SOURCE: Sig O, USAFIK

INCL: 1
PREP. BY: G-2 USAFIK
DATE OF INFO: 7 Jan 49
T/1, G-2, GHD, YKO
International Radio Communications in Korea
for OSID ID-13, Control 430-770, dtd 3 May 49, and above

Forwarded herewith on OCS IV is a report prepared by the Assistant Chief of Staff, G-2, USAFIK, answering each specific requirement outlined in reference letter above.

For the Assistant Chief of Staff, G-2:

L. H. BORG
Lt Col, GSO
Asst Exec, G-2

G-2 ADMIN FILE CA FILE/DIRECTOR/STAFF

MEMO FOR RECORD:

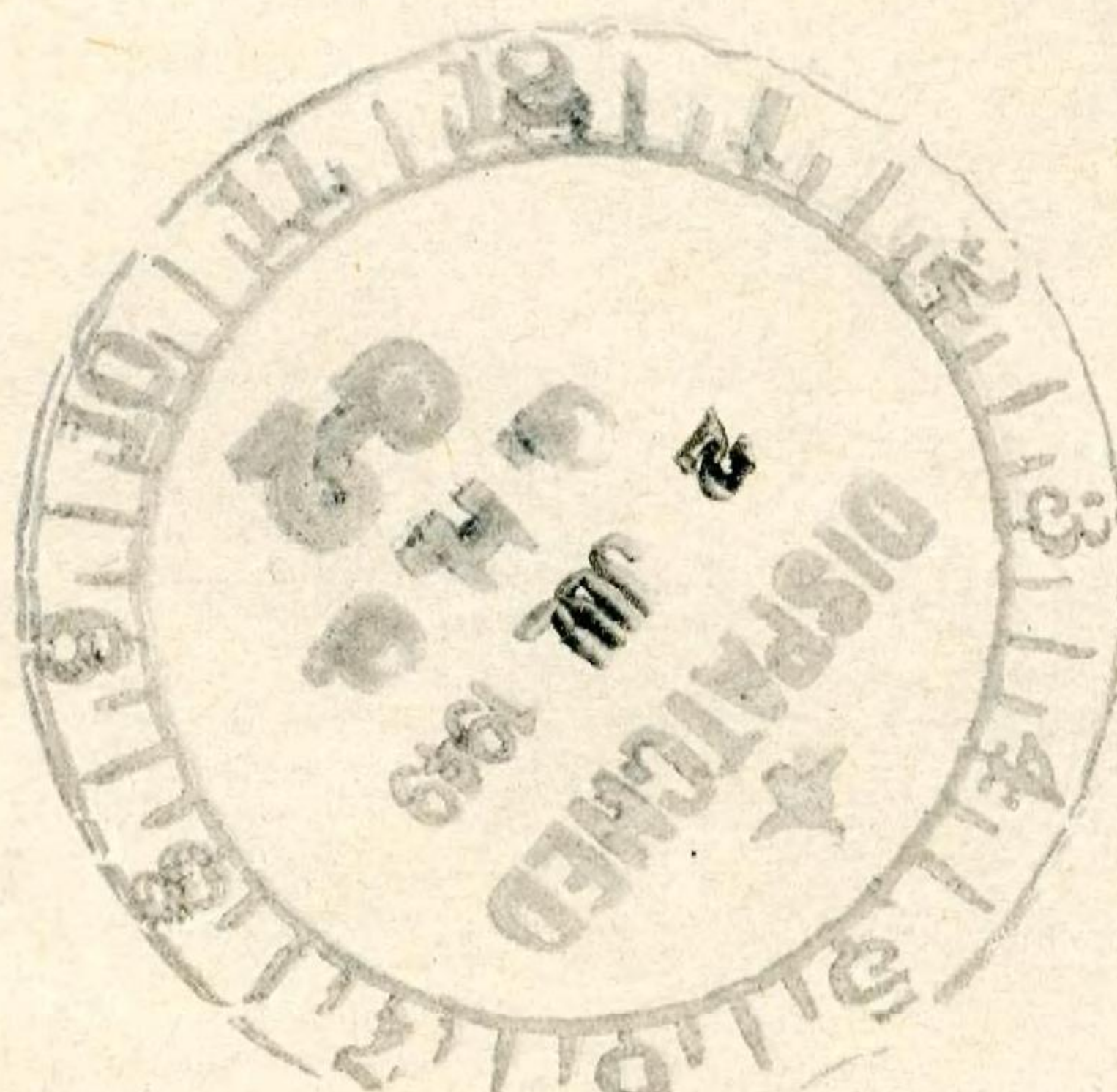
Attached Dept of Army Itr, OSID ID-13, Control No. 80-770, subj: "International Radio Communications in Korea", dtd 3 May 49, requests specific info regarding radio phone facilities from Seoul, Korea, to San Francisco, Calif, for the period Sept '47 to Dec '48.

This OCS IV ltr to ID 8202A a report prepared by AG/S G-2, USAFIK from observations of Sig Off, USAFIK, and answers each of the specific requirements of basic letter.

SEC-5462

Distribution of USAFIK Ref:

- 1 - MID (orig OCS IV)
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- 1 - COS, GHD
- 1 - T/1
- 1 - WISD, G-2
- 1 - G-2 Itr



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GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section, General Staff

APO 500
6 June 1949

15003

SUBJECT: Plain-Text Traffic Study

TO : Director of Intelligence, General Staff
United States Army
Washington 25, D. C.

1. Reference is Plain-Text Traffic Study, Far East Area, Report Number 9, December 1948, published by Army Security Agency.

2. Reference document shows a compilation of plain text messages sent between Washington and various commands in Hawaii and the Far East. This compilation demonstrates that by means of simple interception and direct translation from English to Russian it is feasible for the Soviets over the period October-November 48 to have prepared a comprehensive Order of Battle file on the U.S. Forces all over the Far East area, to have a good idea of all dispositions and troop strengths, considerable personality data, together with an idea of planning trends.

3. Document contained no recommendations for correction of situation created by transmittal of plain text messages. Realizing the gravity of a situation which would permit the possible disclosure to the Soviets of information of a classified nature, G-2 GHQ instituted a study by Army Security Agency Pacific, Adjutant General, Signal Section, and G-3 GHQ in an attempt to evolve a plan which would eliminate, at least in the Far East, the disclosure of classified information by plain text messages. Following points were made as a result of the study:

a. The originator of a message is responsible for its proper classification. However the originator of a message cannot be expected to know its significance when considered in conjunction with many other messages, the bulk of which he does not even know exists.

b. Taken individually, none of the messages cited in the document violated provisions of AR 380-5. But treated collectively, the resulting information is considerable. Information obtained from cited messages is also publicly available from road signs, newspapers, and radio broadcasts.

c. Problem of message classification is complicated by provisions of par 1a, D/A Ltr, subject: "Message Preparation", file AG AO-S 311.23 (24 Feb 49)AGCM, 25 Feb 49, which warns against overclassification.

G-2 Admin File

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MAYNARD E. LEE
CVO, USA

JUN - 7 1949

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GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section, General Staff

APR 200
6 June 1949

SUBJECT: Plain-Text Traffic Study

TO : Director of Intelligence, General Staff
United States Army
Washington 25, D. C.

1. Reference is made to Plain-Text Traffic Study, Far East Area, Report Number 2, December 1948, published by Army Security Agency.

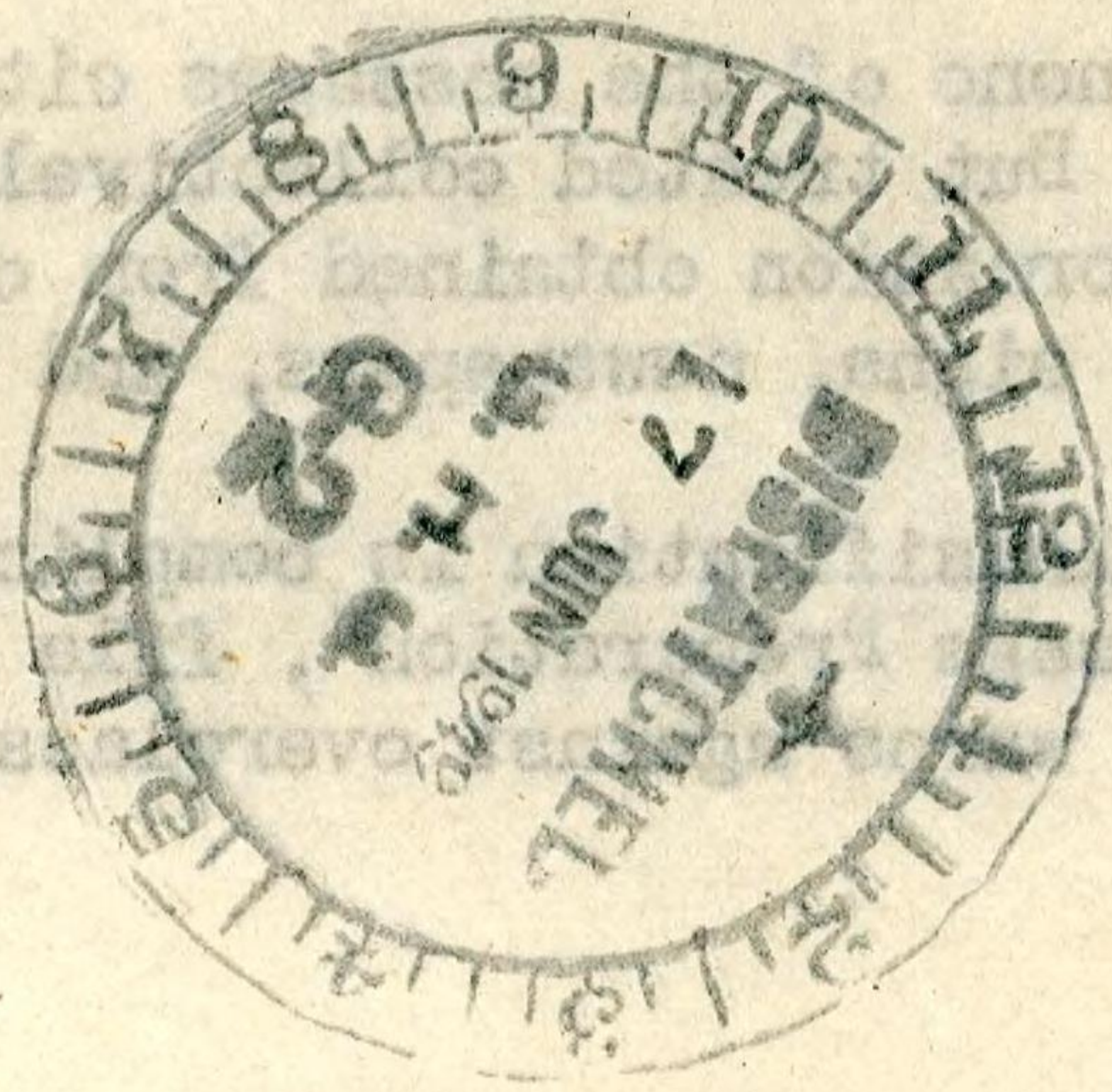
2. Reference document shows a compilation of plain text messages sent between Washington and various commands in Hawaii and the Far East. This compilation demonstrates that by means of simple interception and direct translation from English to Russian it is feasible for the Soviets over the period October-November 1948 to have prepared a comprehensive Order of Battle file on the U.S. Forces all over the Far East area, to have a good idea of all dispositions and troop strengths, considerable personality data, together with an idea of planning trends.

3. Document contained no recommendations for correction of attention exercised by transmitters of plain text messages. Realizing the gravity of a situation which would permit the possible disclosure to the Soviets of information of a classified nature, G-2 GMD instructed a study by Army Security Agency Pacific, Adjutant General, Signal Section, and G-2 GMD in an attempt to evolve a plan which would eliminate, at least in the Far East, the disclosure of classified information by plain text messages. Following points were made as a result of the study:

a. The originator of a message is responsible for its proper classification. However the originator of a message cannot be expected to know the significance when considered in conjunction with many other messages, the bulk of which he does not even know exists.

b. Taken individually, none of the messages cited in the document violated provisions of AR 380-2. However, collectively, the resulting information is considerable. Information obtained from radio broadcasts also publicly available from road.

c. Problem of message classification is complicated by provisions of par 1a, D/A for subject: "Messages of a Classified Nature" (AR 380-2, III, 23) (AR 380-2, III, 23) which, which



MAYARD E. LEE
CNO, USA
JUN - 7 1949

Plain Text Study
for the Army
JUN - 7 1949

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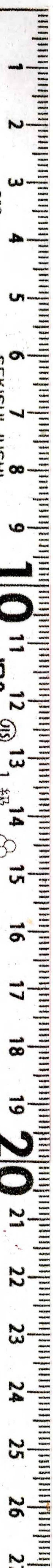
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Ltr to Dr of Intell, subj:
Plain-Text Traffic Study

d. One means of correcting situation would be to classify a much greater percentage of messages, but this would not be practicable, since greater use of coding would increase possibility of codes being compromised, would require increase in trained technical personnel, and would overburden communications systems.

e. Many messages identical in subject matter and intelligence with messages cited in document are daily being received from Dept of Army.

4. In view of the comments made in the preceding paragraphs, it does not appear feasible to attempt to remedy the conditions of security in radio traffic covered in the basic letter by unilateral action on the part of the Far East Command. It is recommended that Dept of Army instructions pertaining to protecting this type of information be covered by a DA Directive and have Army wide application.

For the Assistant Chief of Staff, G-2:

C. S. MYERS
Colonel, GSC
Executive Officer.

MEMO FOR RECORD:

Ltr written per instructions in C/N 9, CAW 280.

L.J.F. -- 26-6021

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Authority 795020

By KJ NARA Date 12/09/11

