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USCIB: 8.1/4

23 November 1954

~~TOP SECRET~~

MEMORANDUM FOR THE MEMBERS OF USCIB:

Subject: Relocation of D/F Station (USM-6C) from U.S. Sector of [redacted] Berlin.

EO 3.3(h)(2)
PL 86-36/50 USC 3605

Reference: USCIB 8.1/3 of 16 July 1954.

The enclosure herewith is circulated for information and file in connection with the reference and completes action thereon.

RUFUS L. TAYLOR
Captain, U. S. Navy
Executive Secretary, USCIB

Enclosure
A. C. of S., G-2, Memo [redacted]
16 Nov 1954.

USCIB: 8.1/4

~~TOP SECRET~~

16 NOV 1954

G2-ASA

SUBJECT: Relocation of DF Station (USM-6C) from U.S. Sector of Berlin [redacted]

EO 3.3(h)(2)
PL 86-36/50 USC 3605

THRU: Director
National Security Agency
Washington 25, D. C.

TO: [redacted]

1. Reference is made to:

a. [redacted] letter, 2 Jul 54, Serial 000813, subject as above.

b. CIB No. 000169, 1 Jun 54, same subject.

2. As a matter of primary interest, the request to affect local agreement between the U.S. [redacted] commanders in Berlin and supply the information on the type of equipment which will be used by USM-6C [redacted] was referred to the Army member of USCIB for action.

3. Information has now been received from Headquarters, ASAE that the local agreement desired by [redacted] has been reached and that the details of implementation were worked out with Lt Col Maness, Intelligence Officer, U.S. Commander Berlin, and appropriate [redacted] Staff members in Berlin.

4. With respect to the information desired by [redacted] on the type of equipment used by USM-6C at [redacted], there follows a list of this equipment, together with a description of each item:

a. Teletypewriter, TT-7/FG: This equipment is intended for use where large amounts of traffic are anticipated. They include a Teletype model 15 teletypewriter, a model 15 perforator transmitter, a model 14 transmitter distributor, a REC-30 rectifier, and a model 19 table. They are known commonly as model 19 sets. They exchange typewritten page messages between two or more points. One set of either type completely equips a station for sending to and receiving from one or more stations connected

Enclosure with USCIB 8.1/4 dtd 23 Nov 1954.

by a telegraph channel. These sets are arranged for direct transmission by the perforator transmitter keyboard or transmission from tape by the transmitter distributor. Both methods may be used together if simultaneous transmission over two separate loops is desired. Either the perforator transmitter or the transmitter distributor may be connected in series with the local teletypewriter relay and the line in order to actuate the local and the distant receiving components, thereby furnishing a home copy of both transmitted and received messages at each station. In addition to typing page copy, these teletypewriter sets can produce perforated tape by means of the perforator transmitter for use in the transmitter distributor. If required as auxiliary equipment, a typing or nontyping reperforator can be connected to these teletypewriter sets to produce perforated tape and record the messages carried by a signal line. The perforator transmitter inserted in the base of the printer is a combination keyboard transmitter and tape perforator with an electrically operated character counter and end-of-line warning lamp. A manually operated three-position operating lever is mounted at the right end of the perforator transmitter unit.

b. Radio Set AN/GRD-2: This equipment is an air-transportable, ground station radio direction finder which consists of a fixed oriented antenna array, an electronic goniometer, a highly sensitive radio receiver, a visual bearing indicator, an aural-null indicator, a modulating voltage generator, a power distribution unit, and other associated equipment. Through the use of this equipment, the azimuth angle of arrival of a radio wave at the antenna system, with respect to magnetic north or some other reference direction, can be determined. Thus, bearing information is obtained on practically any radio transmitter from which signals can be received. During actual operation, instantaneous visual bearing indications in the form of a propeller-shaped pattern on the screen of a cathode-ray tube are displayed as fast as the receiver can be tuned to various signals. Thus, bearings may be taken on practically all kinds of signals, even those of extremely short time duration. The frequency range of the equipment is from 0.54 to 30 mc (megacycles).

c. One Power Unit - PE-95: This equipment is a complete, self-contained, a-c generating unit. The unit consists of an a-c generator with built-in d-c exciter. It is driven by a four-cylinder, liquid-cooled, gasoline engine which is directly connected to the generator. A control panel is mounted at one end of the unit on which all necessary meters, terminals, and controls are mounted. The complete assembly is mounted on a welded-steel skid base and inclosed within a sheet metal housing. The housing is provided with doors and removable panels enabling the operator to reach any part of the equipment.

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SUBJECT: Relocation of DF Station (USM-6C) from U.S. Sector of Berlin [redacted]

d. One Line Unit, BE-77: This equipment is an electrical device especially designed for use as part of Army tactical (field) teletypewriter sets which transmit and receive direct-current (d-c) neutral type line signals. All models of the line unit make the necessary connections between a d-c power source, a wire line circuit, and the teletypewriter equipment, repeat teletypewriter signals transmitted to, and received from, the line into the teletypewriter receiving mechanism, measure and adjust line current, and adjust quality (bias) of the received signals.

5. As additional pertinent information, it is to be noted that the teletype circuits consist of two pair underground cable from the DF site to the cable head approximately 300 yards south of the site. Commercial power is furnished through underground cable from the Main Administration Building at [redacted] Airfield.

6. The concern expressed by [redacted] relative to the impairment of the present low noise level which exists at [redacted] is fully appreciated. Particular attention will be given to this aspect in considering any equipment used by USM-6C at the site and every means possible will be taken to maintain the existing low noise level. To this end, assurance can be given that all equipment used will be shielded and/or suppressed to prevent objectionable spurious electromagnetic radiations.

EO 3.3(h)(2)
PL 86-36/50 USC 3605

FOR THE ASSISTANT CHIEF OF STAFF, G-2

(SIGNED)

J. H. MONTGOMERY, JR.
Colonel GS
Chief, Plans and
Policy Office

Copy furnished:
The Executive Secretary
U.S. Communications Intelligence
Board
Washington 25, D. C.