

File
Loran

245 Files ✓



Section 935
REFER TO FILE NO.
C-Loran O
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NAVY DEPARTMENT
BUREAU OF SHIPS
WASHINGTON 25, D. C.
MEMORANDUM FOR FILE

22 August 1944

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Subj: Inspection of Loran Station Sugar, 18 August 1944.

1. A visit was paid to the Loran Station Sugar on 18 August 1944 as a matter of general interest and to obtain general information on method of operation.

2. The station may be briefly outlined as follows:

- Timers - Type B-1 with mechanical relay attenuator
- Transmitters - One Model 575BC
Two - Harvey, one of which operates on 10.58 mc/s
- Switching Equipment - B-C-3 box
B-C-1 box
Relay switch box
- Transmitting Antenna - 114 foot vertical wire suspended between two 130 foot wooden masts; 300 foot ground system
- Housing - Quonset Hut
- Miscellaneous - One A-1 oscilloscope serves all transmitters

3. No written operating instructions are available, the information being taught verbally. Since the equipment is for the most part scheduled for replacement, it was decided not to probe operating methods too much.

4. The effect of double pulsing on the timing of the pulses is serious. Station Fox has automatic synchronization with good results. In the case of station Baker which is a double slave and without automatic synchronization, the signals as observed at Sugar were usually off synchronism by varying amounts up to about two microseconds.

5. One aspect of the operation of the station is that of personnel morale. Reports of the use of Loran has a very stimulating effect on a very routine job and it is suggested that a monthly letter giving excerpts of use by ships and planes would have a very beneficial effect.

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