

2 November 1962

Commanding Officer, USCG Loran Station, Attu

Electronics Inspection Team

LORAN 'A'

1. The general appearance of your Loran 'A' timer room and transmitter room is good. The cooperation of your men has been good.
2. The Loran A installation has been sadly neglected in favor of Loran C. No maintenance has been done in the past two months and haphazardly before then as noted in part two of CG-156 and operation of your equipment. Corrective maintenance has been done only on a crash priority in order to stay on the air, with minor failures left uncorrected until they became major failures.
3. Your personnel are generally unfamiliar with your Loran A equipment and operations other than routine watchstanding. No provision was made in your electronics department for assigning ET's to maintain your Loran A equipment other than on a specific job basis as directed by the XO or ETC. You have an ET complement that is adequate for both a Loran C and a Loran A station. Assignment of electronics personnel should reflect this.
4. The following comments apply to specific Loran A equipment.
 - A. Timer #1
 1. No signal presentation on the RF scope.
 2. Max. motor speed switch and panel in sync control unit missing.
 3. Other sub-chassis covers in sync control unit missing.
 4. Receiver gain was not standardized.
 5. Wave traps should be at CCW limit of range unless actually experiencing RF interference.
 6. Triggers were not properly aligned.
 7. Regulated voltages were improperly set.
 8. Off sync and sync error alarms sensitivity were not adjusted properly.
 9. Recorder range and zero were set incorrectly.
 10. Thirty weak or shorted tubes needed replacing.
 - B. Timer #2
 1. Receiver gain was not standardized.
 2. Wave traps should have been at CCW limit unless actually experiencing RF interference.
 3. Some regulated voltages were improperly set.
 4. Recorder range and zero were set incorrectly.
 5. Off sync and sync error alarms sensitivity not adjusted correctly.
 6. Approximately twenty-four tubes needed replacement.

C. Transmitter #1

1. Voltage supplied by Voltage Regulator #1 was too low and could not be raised.
2. Dumont 260-D was not calibrated, your monthly report stated it was.
3. Pulse shape was not within one microsecond tolerance for pulse width on exciter A or rise time and pulse width on exciter B.
4. Insufficient drive from your exciters and some PA tubes resulting in transmitter output being too low.
5. Corona rings were not removed from all PA tubes.

D. Transmitter #2

1. Your monthly reports have stated that scope was calibrated, it was not.
2. Pulse shape not within tolerance for pulse width on exciter A or B.
3. Some bias settings were incorrect.
4. Low output from the exciters and PA stages.
5. Corona rings were not removed from all PA tubes.
6. Defective cable to OSC from B exciter triggers.

E. Amplifier #1

1. Half your PA tubes were weak resulting in substandard output.
2. Corona rings not removed from all PA tubes.

F. Amplifier #2

1. Grid tuning dial was frozen.
2. Half your PA tubes were weak resulting in low output.
3. Corona rings were not removed from all PA tubes.

G. FPA-3B

1. Operated in method three instead of method four as per CCGD17 OPLAN
2. Unauthorized modification in remote alarms in Loran C timer room.
3. Rate B in remote alarm inoperative due to unauthorized modification.
4. Modification to off air time dial pending letter of justification and Commandant approval.
5. Authorized plexiglas front to view RF ammeter inserted in transmission lines in place of links. Readings on ammeter should never be less than 3.6 when on air.

H. FPA-2A

1. Corrected all ESU's to 30 DB instead of 40 DB attenuation.
2. Some tubes had low emissions or shorts.

I. Transmitter Coupler and Antenna

1. Inoperative interlock on coupler door.
2. Spark gap missing from antenna.
3. Ammeters set on 0 - 10 scale instead of 0 - 5.
4. 750 KW is minimum output at antenna.

J. Receiver coupler and antenna

1. Replaced receiving antenna.
2. Retuned coupler for new antenna.

K. Transmission Lines and Ground System

1. Megged all transmission lines, readings were excellent.
2. Ground system well maintained.

6. System performance test of 5 September had not been completed or forwarded at this time.

7. Air conditioning provided to the Loran A timer room is not needed by this equipment,