

UNITED STATES GOVERNMENT

# Memorandum

TO : Chief, Electronics Engineering Branch

DATE: 29 June 1976

FROM : CWO4 J. Phillips

SUBJECT: Trip Report: LORSTA Marshall Pt 16-17 June 1976  
LSTTA Brown's Head 18 June 1976

## PURPOSE OF TRIP:

- a. MARSHALL PT To evaluate performance of AN/FPN-56 LORAN A receivers and to permanently install same.
- b. BROWN'S HEAD To accomplish initial engineering survey for OE automation scheduled 10-76.

## ACCOMPLISHMENTS AND FINDINGS:

a. MARSHALL PT The AN/FPN-56 receivers have performed faultlessly for a 90 day period. A full set of spares are on board and ready for use. AN/FPN-30 timer set was removed during my visit. Due lack of dedicated primary power circuits it was not possible to effect a permanent installation of the AN/FPN-56 unit. The following work requires an "off-air" period for accomplishment: Separation of primary power circuits from frequency standard rack and AN/TPA-2 unit; relocation of AN/FPN-55 COLAC timer set; replacement of the non-compatible prototype ICU equipment with factory production model (on board and RFI); remaking and rerouting of numerous interconnecting wiring runs which are currently draped over cabinets, laying on deck etc, etc.; labeling and tagging of wiring runs to ensure more positive troubleshooting results; enclosing primary power cabling to transmitters in conduit (currently draped over basement floor joists and correcting several Status Alarm Unit wiring and/or programing errors. In general LORSTA requires approximately 8 man days of work to bring it up to good engineering standards and general conformation with standard LARE equipped stations. Attachment (1) to this trip report contains photographs of existing equipment and sketches of standardized LARE installations. It is proposed to accomplish the work recommended above during the week of 19-23 July 1976. Approximately 3 hours of intermittent "off-air" time will be required. A cost estimate is \$1000.00 with District personnel and station workforce accomplishing all work. It is recommended this funding be via EPN 5063 (LARE modifications at LORSTA Nantucket) since the work is directly associated with LARE equipment installation.

b. BROWN'S HEAD This LSTTA is scheduled for automation in 10/76 and includes light and electronic fog signal. The station is served by a 6 pr telephone cable (1 pr in use as private/station telephone). Officer in charge states that telephone service off-island (TELCO microwave link to Lockport, Me) is unreliable in winter months. Service on-island is highly reliable. A request, via JCED ONE (oc) to determine TELCO link reliability has been requested by separate memo. If sufficient reliability is available




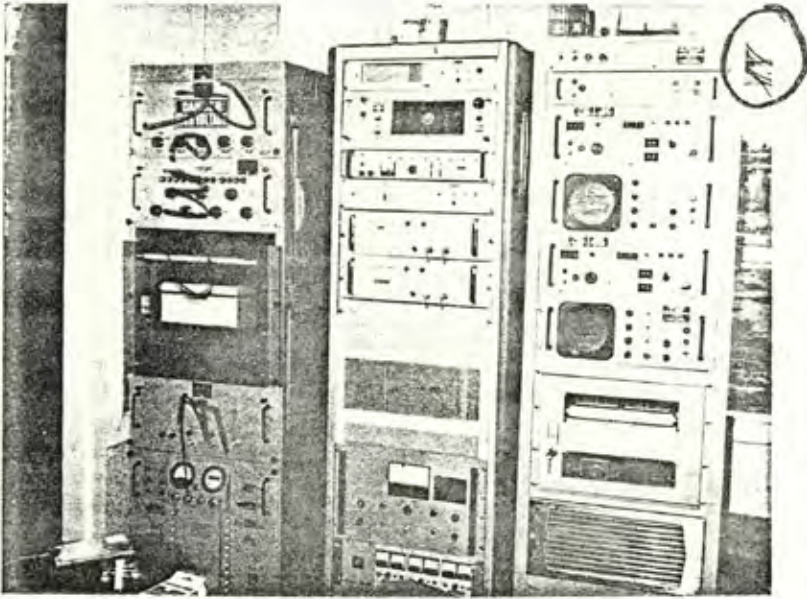
CWO4 Phillips trip report Brown's Head LTSTA/Marshall Pt LORSTA cont;

control of the fog signal via Speedcall device and landlines is recommended. Designated control point is Owl's Head LTSTA. An alternate possibility is control by the civilian lamplighter for Goose Rocks light who resides on North Haven Island nearby. Recommended location of Speedcaller device is in companionway between dwelling and light tower. 110 vac is readily available in this location. (See attachment 2). In the event TELCO microwave link proves unreliable, a microwave link from Owl's Head LTSTA to Brown's Head would have to be considered. Commercial power at Brown's Head has recently been made reliable. The emergency generator currently in use is not automatic starting and is said to be in poor condition by the Officer in Charge. Should back-up power be desirable in the automated configuration a replacement, of smaller capacity, should be considered. The light tower structure appears to be in good condition. Fog signal and lantern wiring circuits are in good condition. Officer in Charge P.O. 1 Baxter is very familiar with the details of the light station and should be helpful in the securing effort required for automation. He and his wife were most cordial and helpful to me in my visit.

  
J. PHILLIPS

cc: COMGRU S.W. Harbor  
O-in\*C, LORSTA Marshall Pt  
O-in\*C, LTSTA Brown's Head  
CCGD One (ecv) LCDR Teeson

CCGD ONE (OAN) 



Present equipment configuration in timer room. FPA2 equipment (far left) requires removal. Note interconnecting wiring draped from top of right side cabinet (AN/FPN-56 receiver)



Isolation transformers and line filters used with AN/FPN-30 timer and AN/FPA-2 switchgear. No longer required, scheduled for removal.

STANDARD LARE EQUIPMENT CONFIGURATION

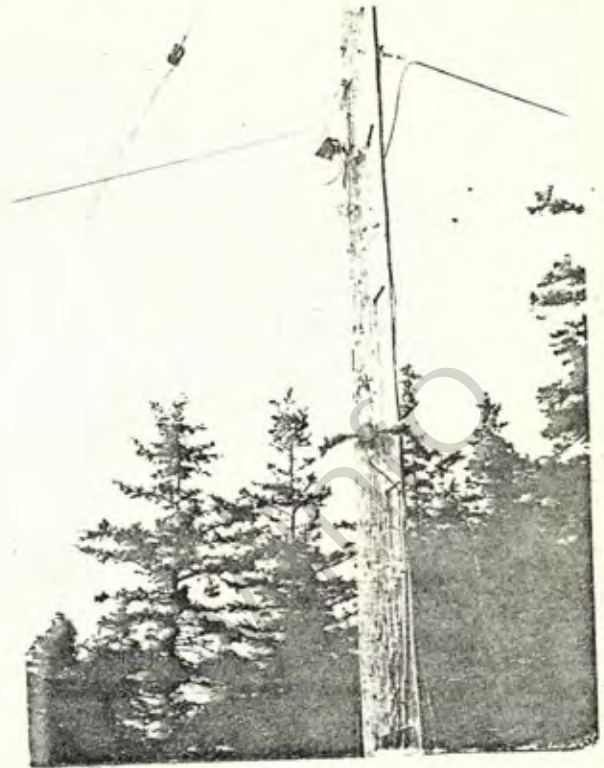
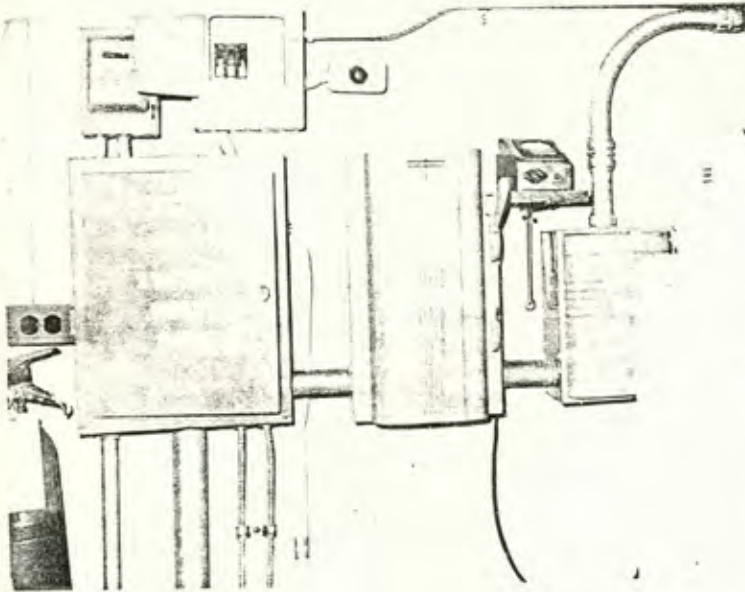
(SINGLE RATE SECONDARY)

RECEIVER  
AN/FPN-56

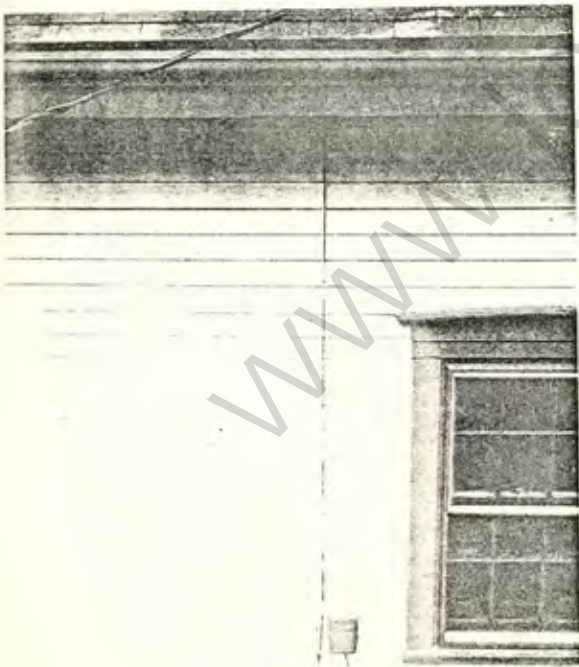
FREQUENCY  
STANDARD  
GCF-WRL-1740B

	□	○	□	○	RECORDER		
	TIMER AN/FPN-53			TD 989	○ □ ○	 TD 989	
SAU ☺	DIST AMP	304 OSC	888 □ Recorder	304 OSC	OSC	PWR SUPPLIES	BB 306/U BATTERY BACK-UP

6 PR cable from  
blacktop (3/4 mi)  
1 pr in use



Fog Signal control/main light control  
(vestibule between dwelling & light tower)



Overall view of Brown's Head LTSTA



Telephone service drop to dwelling