LORAN MONITOR STATION EGLIN

Remote Destin Monitor Site Correspondence 1977 - 1980

Retrieved from NARA during Sept 2017 and

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DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

MAILING ADDRESS: U.S. COAST GUARTG-WAN-2/73 WASHINGTON, D.C. 20590 PHONE 202-472-5857 16562.2/11

1 8 AUG 1977

From: Commandant, U.S. Coast Guard

To: Program Director, Systems Program Office for Tactical Loran

(ESD/DCL, STOP 43)

Subj: USCG Loran-C Monitor Station Eglin, Eglin AFB, FL.

- 1. The purpose of this letter is to inform you of our plans that will affect the Coast Guard's Loran-C monitor station at Eglin AFB, Florida.
- 2. At the present time, LORMONSTA Eglin is the System Area Monitor (SAM) for LORSTA Dana, Indiana, the Zulu secondary for the existing U.S. East Coast Loran-C Chain. LORMONSTA Eglin provides vital real time Loran-C control information for Air Force operations in the Eglin, AFB area. The present configuration of this Loran-C chain will be terminated approximately 1 July 1979. The stations that comprise the existing U.S. East Coast Loran-C Chain will be reconfigured and will become part of the new Southeast and Northeast Loran-C chains that will complete Coastal Confluence Zone (CCZ) Loran-C coverage for this portion of the U.S.
- LORMONSTA Eglin as it now exists is required as long as LORSTA Dana is part of the existing U.S. East Coast Loran-C Chain. On approximately 1 July 1979 LORSTA Dana will be shut down to be refurbished for service as part of the new CCZ Loran C System and the SAM function at Eglin will no longer be required. The new Loran-C control concept utilizes remote unmanned monitor facilities that relay the observed data, via dedicated data links, back to a control station. In this case the control station will be collocated with the new Master transmitting station for the Southeast U.S. Loran-C chain currently under construction at Malone, Florida. It is our intention to utilize the existing facilities at Eglin as the site for one of the remote unmanned monitors for the new Southeast U.S. Loran-C chain. We will continue to provide the Air Force with the same Loran-C control information we currently provide. main difference being that the information will be provided via the new Loran-C station at Malone, Florida. The facility at Eglin is of Air Force design (48'x37'), approximately 1800 square feet consisting of an operation room, day room, shop space, two offices, generator spaces, and a utility room. The facility is air conditioned. The new remote monitor equipment that will be installed at Eglin will require a space of approximately 10'x10'x8'. The remaining space will be excess to our needs.
- 4. It is our understanding that your existing Loran-D monitor site must be vacated by next summer (1978). It appears that it may be beneficial to our respective programs to investigate the feasibility of collocating

Subj: USCG Loran-C Monitor Station Eglin, Eglin AFB, FL.

your Loran-D monitor facility with our existing Loran-C monitor facility at Eglin, keeping in mind our planned de-manning of the facility approximately 1 July 1979. We would also like to investigate the feasibility of executing an Interservice Support Agreement for the maintenance of our new Loran-C monitor system that will replace the existing equipment. This new equipment is solid state and utilizes the module "black box" replacement concept of maintenance. Specific details can be discussed later.

5. We desire to establish communications with you in order to discuss this matter further. Your point of contact at Coast Guard Headquarters, Washington, D.C. is CDR. WILLIAM G. WALKER, Chief, Loran-C Implementation Branch, FTS 472-5857. Our liaison at ESD Hanscom, CDR. R. A. McCLELLAN, has been informed of this matter and is available to assist you.

A. F. FUCARO Chief, Office of Marine Environment and Systems

Copy to:

ADTC/TETE Eglin AFB, FL.
AFSC/SDEC Andrews AFB, MD.
HQUSAF/XOODF Pentagon, WASH., D.C.
AFCS/XPQE Richards Gebaur AFB, MO.
COMLANTAREA (PTml), GOV ISLAND, NEW YORK
CCGDEIGHT(o), New Orleans, LA.
CG LORMONSTA Eglin, Eglin AFB, FL.
CG STAFF OFFICER, Hanscom AFB, MA.

Memorandum

UNITED STATES GOVERNMENT

RCVD DEC 1 4 1977 DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD G-EEE-4/63 3920/1.3

DATE:

1 3 DEC 1977

SUBJECT:

LORMONSTA Eglin

FROM :

Chief, Electronics Engineering Division

TO

Chief, Aids to Navigation Division

1. Attached as enclosure (1) a plan to upgrade the equipment and to eventually determine if LORMONSTA Eglin can be secured after the existing East Coast Loran-C Chain is terminated in 1979. The schedule provided is keyed to the tentative operational dates for the Southeast U.S. Loran-C Chain and termination of the existing East Coast Chain.

2. We will assume your approval and proceed with our evaluation. In the interim, I recommend you inform the U.S. Air Force of our intentions and determine what constraints, if any, they will impose on our deliberations. If relocation of the monitor from Eglin Air Force Base is not acceptable to them, we should strive to make it an unmanned facility with USAF technician support.

Encl: (1) Eglin Monitor/Control Plan

Routing	G-WAN-2		1
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Eglin Monitor/Control Plan

- 1. At present LORMONSTA Eglin is the primary monitor and control station for the Zulu (Dana) baseline of the East Coast Loran-C chain (ECLC). The control equipments being utilized are AN/SPN-30 monitor receivers and strip chart recorders. This equipment is antiquated, presents maintenance problems to the repair depot, and is scheduled for replacement. This plan outlines those steps that we intend to take to alleviate these problems and to provide additional capabilities for control of the ECLC.
- 2. When the new South East United States (SEUS) Loran-C chain is implemented, an Austron 5000 monitor receiver system will have been installed at LORMONSTA Eglin as a monitor for that chain. The Austron system will run unattended, with pertinent data being remoted to the control site, LORSTA MALONE, via dedicated teletype lines.
- 3. Since the Austron 5000 receiver has the capability to track more than one Loran-C chain, we plan to utilize the Austron 5000 monitor at Eglin to track the Whisky (Jupiter) and Zulu legs of the ECLC as well as the Grangeville, Raymondville and Jupiter legs of the SEUS chain. This configuration will be evaluated at Eglin for approximately 1-2 months after the installation and turn-on of the SEUS chain. If the evaluation is satisfactory, the AN/SPN-30 Receivers at Eglin will be removed. LORMONSTA Eglin is the control, as well as the monitor, station for the ECLC; therefore the data pertinent to that chain will be recorded at Eglin on strip charts. The additional equipment required at Eglin includes an Austron 6019 D/A converter and 5 strip chart recorders.
- 4. LORMONSTA Mayport, to be implemented as a SEUS monitor site, will also provide ECLC control data. SEUS control data from Mayport will be remoted to Malone, and ECLC data to Eglin. This will require no additional equipment at Mayport. Another Austron 6019 and strip chart recorders will be required at Eglin to record the Mayport provided data. Thus Eglin will play a dual role: as a manned monitor & control station for the ECLC chain using information from its local receiver and from Mayport, and as an "unmanned" SEUS monitor, with SEUS information from the Eglin receiver going directly to LorSta Malone.
- 5. In Summer 1979, after the present ECLC is secured, the Mayport and Eglin Austron 5000 systems will be required to track only the SEUS Loran-C chain. At this time it may be possible to close the Loran-C monitor station at Eglin if both the Mayport and New Orleans monitors can adequately track the entire chain and if closure of the Eglin facility is acceptable to the U.S. Air Force, who originally funded LorSta Dana to serve the Eglin Test Range. Testing to determine the technical feasibility will be conducted during the fall and winter of 1978.

6. Schedule Summary

DATE

January 1978

March 1978

August 1978

August 1979

Event

Austron 5000 installation at Eglin; includes two 6019's and 12 strip chart recorders.

Austron 5000 installation at Mayport.

Deinstallation of AN/SPN-30's at Eglin. (Contingent on evaluation results)

Shut down of ECLC; Shut down of LORMONSTA Eglin and removal of all equipment. (Contingent on evaluation results and USAF agreement)

16562.2/11

APR 9 11

From: Commandant, U.S. Coast Guard

To: Tactical Loran Programs Office, (ESD/OCND, STOP 34)

Subj: USCG Loran-C Monitor Station Eglin, Eglin AFB, FL

Ref: (a) Commandant, U.S. Coast Guard 1tr 16562.2/11 of 18 AUG 77

(b) USAF ESD/DCL ltr of 27 SEP 77

- 1. The purpose of this letter is to inform you of our current plans that will affect the Coast Guard's Loran-C monitor station at Eglin AFB, Florida.
- 2. At the present time, LORMONSTA Eglin is the primary monitor and control station for LORSTA Dana, Indiana, the Zulu secondary for the existing U.S. East Coast Loran-C Chain, rate 9930. LORMONSTA Eglin provides vital real-time control information for Air Force operations in the Eglin, AFB area. The existing U.S. East Coast Loran-C chain will be terminated on 30 September 1979. The stations that comprise the East Coast chain will be reconfigured and will become part of the new Southeast and Northeast Loran-C chains to complete Coastal Confluence Zone (CCZ) Loran-C coverage along the East Coast and Gulf of Mexico areas.
- 3. LORMONSTA Eglin as it now exists is required as long as LORSTA Dana remains part of the existing East Coast Loran-C chain. On 30 September 1979, LORSTA Dana will cease operating as part of the East Coast Loran-C Chain. Upon cessation of LORSTA Dana service in September 1979 as part of the Bast Coast Chain, the control function at LORMONSTA Eglin will no longer be required. Discontinuation of the East Coast chain will require you to use the Southeast chain for operations in your area. The new Loran-C control concept utilizes remote, unmanned monitor facilities that relay the observed data, via dedicated control links, back to a control station. In this case the control station is colocated with the Master transmitting station for the Southeast Loran-C Chain, at Malone, FL, using remote monitor sites at New Orleans and Jacksonville. Eglin has been used as a back-up to these installations. Reference (a) outlined our intentions to utilize the existing facilities at Eglin as the site for one of the remote unmanned monitor sites for the Southeast U.S. Loran-C chain. We have reevaluated the monitor requirement for this chain and see little need to retain Eglin as a monitor site. We are planning to install additional monitor equipment at our New Orleans monitor site to provide redundant monitor

APR 2 0 1979

Subj: USCG Loran-C Monitor Station Eglin, Eglin AFB, FL

capability for the Southeast chain. We anticipate no degradation of Loran-C stability for your test ranges.

4. Should your staff desire additional information or wish to discuss this matter further, your point of contact at Coast Guard Headquarters, Washington, DC is LCDR John F. Weseman, Loran-C Implementation Branch, FTS 472-5857. Our liaison at ESD Hanscom, CDR R. A. McClellan, has been informed of this matter and is available to assist you.

Copy to:
ADTC/TETE Eglin AFB, FL
AFSC/SDEC Andrews AFB, MD
HQUSAF/XOODF Pentagon, Washington, DC
AFCS/XPQE Richards Gebaur AFB, MO
COMLANTAREA (Ptml)
CCGDEIGHT (o)
CG LORMONSTA Eglin, Eglin AFB, FL
CG STAFF OFFICER, Hanscom AFB, MA

PREVIOUS EDITIONS MAY BE USED	WESEMAN/lah	472-5857	17APR79	PROGRAMLTR #3
OFFICE OR GWAN2 GWAN	GEEE			
INITIALS OF RESPONSIBLE OFFICERS	DEVIAN			
INTRA-OFFICE OR DIVISION INITIALS	101-4/18			
DATE OUT	C4118			



DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

ADDRESS REPLY TO COMMANDER (OAN)
EIGHTH COAST GUARD DISTRICT HALE BOGGS FEDERAL BLOG BOO CAMP ST.

NEW ORLEANS. LA 70130 (FTS) 682-6234

16564/Eglin Ser 38 5 OCT 19/9

From: Commander, Eighth Coast Guard District

To: Commandant (GWAN)

Subj: SEUS LORAN-C Monitor Sites; relocation of LORMONSTA Eglin

Ref: (a) COMDT COGARD MSG 091519Z AUG 79

- 1. As requested by reference (a), the following information is provided on the relocation of Eglin LORAN Monitor Station.
- a. The Destin, Florida site is most suitable of the replacement sites considered. CWO BOWLBY has contacted the Air Force concerning use of the land, and does not foresee any difficulties in obtaining approval for the Monitor Station at this site. The Air Force has conducted a site evaluation test with positive results. Eglin LORMONSTA also plans to install a temporary 35 ft. tower at the site to see if any interference occurs with the VORTAC transmission now at the site. An emergency generator and direct phone hook up are available at the site. The present "ISSA" for Eglin extends through August, 1980, and amendment of this agreement to cover the Destin Site is the easiest and most convenient way to obtain use of the land. A formal letter should be submitted to the Air Force for the land upon completion of site evaluation.
- b. Approval for site evaluation by the monitor van will present no problems. The van should be brought down as soon as possible for testing so relocation may begin.
- c. CWO BOWLBY has suggested several other possible sites for the monitor station provided the original Destin Site does not satisfy all stated requirements. These backup sites are located in the vicinity of Destin. Location of the Monitor Site at New Orleans would not provide maximum coverage of the LORAN area. It would also place two monitor stations in the New Orleans area allowing for the possible damage to both antennas during storms or other circumstances. The location of the Monitor Station near Malone would place the station on the LORAN-C base line, causing the Monitor Station to receive the most inaccurate signal. The tower would also be affected by interaction with the non-radiating signal field from Station Malone.
- 2. Transfer of personnel from Eglin does not present any difficulties at present, the Monitor Station has seven ETs and no seaman. All ETs have received transfers, except two who will remain at Eglin throughout the relocation of the Monitor Station. It is expected that one or both of the above mentioned ETs will be assigned to Station Destin upon the medical discharge of the station's ET.

RCVD OCT 1 6 1979 WAR

16564/Eglin Ser 988 5 007 1979

Subj: SEUS LORAN-C Monitor Sites; relocation of LORMONSTA Eglin

- 2. (Con'd) A District shortage of non-rated personnel will present problems in District assigning two seaman to the station for security purposes during the maneuvers from mid-October through mid-November 1979. Two extra non-rated personnel for this purpose are required to insure their availability during this operation. At this time District (p) does not show two non-rated persons scheduled for assignment to this duty.
- 3. Review of Destin Station ET billet structure should be made to ensure proper rated and trained personnel are available to service the Monitor Site once established. To insure proper servicing the billet structure should be increased by 1-ET2 with Austron 5000 experience. This would provide two ETs to meet LORAN-C and Group Mobile electronic maintenance responsibilities.
- 4. CWO BOWLBY is to retire 1 February 1980. Efforts should be made to complete majority of relocation prior to retirement for contingency purposes.
- In regards to the relocation of the LORAN Monitor Station at AIRSTA New Orleans, the following comments are offerred. If a complete closure of RADSTA New Orleans occurs, relocation of the Monitor Station to Grand Isle is favored once Base New Orleans is moved. This would provide the same LORAN-C grid crossing angles which now exist, and would allow for quicker response time on repairs to the Monitor Station. This is assuming Base New Orleans and Group complex is relocated to nearby Michoud, and several ET billets are assigned to Grand Isle once the group is absorbed into Group NOLA and only a SAR Station remains at Grand Isle. If RADSTA were shut down and the Base Group were moved to Michould, response time to the Monitor Station if left in New Orleans, would be at least one hour due to distance and traffic conditions. [If] the RADSTA is not closed down, but only reduced in size, relocation of the Monitor Station from AIRSTA NOLA to RADSTA NOLA is desired. If the RADSTA continues to operate in New Orleans, seven ETs are billeted to RADSTA to remain; an ample number to keep the Monitor Station in operating condition. Other alternative sites for relocation would include Galveston, Sabine, and other areas of Texas. These recommendations should be considered, and if possible, site evaluation should be conducted while the EECEN Monitor/Survey Van is in the District for survey of the Destin Site.

By direction

Copy to: COMLANT Area LORMONSTA Eglin COCO (w/copy Ref (a)) LORSTA Malone CCGD8 (p) CCGD8 (e)

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RTTUZYIM RUEDEEA5507 3301928-UUUL-RUERJGA.
ZNR UUULUU
R 0419287 DEC 79
RM COGARD FECEN WILDWOOD NU
TO RUEBLJA/COMDT COGARD WASHINGTON DC
INFO ZEN/COMLANIAREA COGARD NEW YORK NY
PUCLPWA/COGDEIGHT NEW ORLEANS LA
RUCLPWA/COGARD STA DESTIN FL
GG GRNC
BT
UNCLAS // NI6565//
DESTIN LORMOMSITF EVALUATION

ACTION G-ECV INFO G-E G-EEE G-FCP-2 G-WAN G-W G-WP G-OTM G-ON G-OSR-2 G-CBU

G-OFP

I. EVALUATED PROSPECTIVE LORMONSITE IN AREA OF DESTIN, FLORIDA DERING THE PERIOD 27-29 NOV 1979. SOFTWAPE VERSION C. I WAS JUSTO FOR ALL TESTS.

2. SITE MEETS ALL COMDIT CRITERIA FOR LORAN-C SYSTEM AREA MONITOR WITH THE EXCEPTION OF CROWN DESISTIVITY. PESISTIVITY MEASURED WITH THE FOUR TERMINAL METHOD MEASURED APPROX SECOND OHM-CM. THREE TERMINAL METHOD WITH BOD UNDER TEST DOWN SIX FEET CARE RESISTANCE OF 372 OHMS. AREA IS APPROX SIX FEET AROUF WATER NEWER AND

TAGE 02 TUEDEEA5507 UNCLAS

COMPOSED OF FINE WHITE SAND. SYSTEM GROUND REQUIREMENTS CAN BE
MET BY INSURING GROUND RODS EXTEND BELOW WATER TAPLE.

- 3. ANTICIPATE NO PROBLEMS IN OCCUPYING LAND OR IN MEETING ALL POWER, COMMS, AND ENVIRONMENTAL REQUIREMENTS. SITE PRESENTLY HAS AN AIR FORCE VOPTAC INSTALLATION APPROX 400 FT FROM PROPOSED AMTERNA SITE, BUILDING IS PRESENT WITH POWER, (INCLUDING EMPRGENCY POWER GENERATOR), ENVIRONMENTAL SYSTEMS, AND COMMS LINES.

 BUILDING HAS REGULAR SECURITY POUNDS MADE BY THE AIR FORCE.
- 4. FIPLD STPENSTHS OF SIGNALS IN DEVUNOM MEASURED WITH THE AUSTRON 5000 WITH LOOP ANIENNA: MASTEP 89, WHISKEY 77, XPAY 56, YANKEE 64, ZULU 63.
- 5. ACCUISITION TEST RESULTS: (TIME IN SEC)

	AVG	SIGMA	MORST	V.C.	IMCORPECT
	TIME	TIME	TIME	FAILURES	CYCLE
MASTER	90	2	24	Ø	P
WHISKFY	00	15	129	2	0

- C KILLI	F F Dan (1)	AB			
XPAY	166	25	243	0	P
WHITE	124	30	304	1	0
7ULU	129	25	223	1	0

RESULTS ARE FOR 43 TRIALS COVERING FOUR 1 HOUR PERIODS (RECEIVER PROPLEMS INVALIDATED DATA FOR THE 2 HOUR SUNRISE PERIOD).

6. CUMULATIVE TRACKING TEST RESULTS:

	MASTER	1	MISKEY	,	XPAY	
A/G TD		136	500.075	USEC	30000.624	USEC
SIGMA TD			24.5	MSEC	22.1	MEEC
PK-PK TD		1	00.	MSEC	90.	MSEC
AVG ENV NO.	2.70		2.77		2.97	
SIGMA ENV NO.	0.010		2.123		2.125	
PY- PK EW M.	0.06		0.07		0.00	
AIG FOD	2.4	USEC	2.6	USEC	1.5	USEC
AUG GAIN NO.	48.		60.		21.	
ANG MISE NO.	1.		10.		334.	1
SIGMA MOISE MO.	2.		3.		137.	
MAX MOISE MO.	6.		20.		701.	

PAGE 04 RUFDEEA5507 UNCLAS

	YANKEE		2111.11	
arc TD	47146.320	USEC	64007.125	USEC
SIGMA TD	31.7	NSEC	60.7	MEFC
PK- DK TD	137.	MSEC .	100.	MEEC
AIG FAU NO.	2.22		2.78	
SIMA FW 'D.	0.012		0.013	
DK- DK EWI W.	0.00		0.00	
AVG FOD	1.4	USEC	2.5	USEC
GIG GAIN NO.	73.		75.	
AVG NOISE NO.	121.		205.	
STOMA ADISE NO.	52.		60.	
MAX NOISE NO.	204.		110.	

PESULTS ARE FOR & FOUR HOUR PERIODS DESIGNATED BY COMPT. LARGE SIGNATED AND PK-PK TO READINGS ARE DIVE TO LONG-TERM DRIFT OF SIGNALS. AND PK-PK ON ALL LEGS WAS LESS THAN 60 NEC DURING ANY POUR HOUR PERIOD WHEN LPA OFFSETS WERE SUBTRACTED. AND SIGNATOR THE FOUR HOUR MONITOR PERIODS WAS WHISKEY 14 MSEC, XRAY 14 MSEC, YANKEE 11 MSEC, ZULU 19 MSEC, POUR COMMANDS AS PER

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- 7. AVG BACKGROUND MOISE MEASURED USING THE HP-310 AND AUSTRON 5000 IN FIXED GAIN MODE, I KHZ RW: 35 DBZUNZM ASSIMING I METER EFF HT OF WHIP. WORST CASE BACKGROUND MOISE 40 DBZUNZM. MOISE SEEMED TO BE PREDOMINATLY LOPAN MOISE.
- 8. THE FOLLOWING ONL PRECHENCIES WITH ESTIMATED FIELD STRENGTH IN DRYUN/M REFORE NOTCHING WERE NOTED (FIELD STRENGTHS ARE WORST CASE MEASUREMENTS): 60.0 (71), 74.5 (61), 86 (43), 88.5 (62), 120.2 (47), 126.2 (48);
- 9. ESTIMATED PULSE PEAK FIFLD STRENGTH IN DEVINOM OF CROSS-PATE INTERFERENCE (WORST CASE MEASUPEMENT):

	9970	2060	2000				
MASTEP	90	74	50	(OMLY	CLEW	ΔT	(THO JIA
WHISVEY	101	57	50				
XRAY	75	74	42	(OM Y	SEEN	۸T	MICHI
YO NIKEE		75	. 52	COMLY	SEEN	AT	NICHT

PAGE 06 RUEDEEA5507 UNOLAS

RESULTS ARE FROM PARA LOCAL TIME TEST. LARGE VARIATIONS OCCUR DUE TO SYYWAVE.

IP. VAN WAS UNABLE TO MCMITOR ON RECOMMENDED ANTENNA SITE.

APPROX POSITION OF SITE 70-23-39 N 86-32-15 W. RECOMMEND THAT

AIR FORCE BE CONTACTED TO DETERMINE IF MONITOR EQUIPMENT MAY BE

HOUSED IN EXISTING BUILDING. IF THIS IS NOT POSSIBLE, GRASSIS

HIT WILL MED TO BE ELEVATED. AREA HAS NOT EXPERIENCED ANY

FLOODING DURING THE LAST HURPICANES BUT LOW ELEVATION MAKES THIS

A POSSIBILITY.

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G-WAN-2/TP14 16562

DEC 6 1979

LORMONSTA Eglin Replacement Monitor Site

Chief, Aids to Navigation Division

Chief, Electronics Engineering Division

- 1. Closure of LORMONSTA Eglin and selection of a new monitor site to perform the Loran-C monitor function which is currently assigned to Eglin has been discussed between G-WAN and G-EEE for some time. Both G-WAN and G-EEE have proceeded to implement the relocation to the extent that an OFCO has been issued to close LORMONSTA Eglin and a site survey has been performed by the EECEN Loran-C monitor van for a site located near Destin, FL. At this time, LORMONSTA Eglin has already been disestablished as a LORMONSTA and is considered an unmanned monitor site.
- 2. Unfortunately, no funds to perform the relocation were ever identified. NIP AC&I funding is considered appropriate and should be used for this project. Should you have problems in identifying appropriate AC&I funds, please contact CDR B. C. Mills (G-WAN-2).

W. G. WALKER

PREVIOUS	EDITIONS	MAY BE USED	WESEMAN/lah	472-5857	5DEC79	EGLINMEMO #4
OFFICE OR DIVISION	GWAN2	GWAN				
INITIALS OF RESPONSIBLE OFFICERS	M					
INTRA-OFFICE OR DIVISION INITIALS	الملا	,				
DATE OUT	1/2/5					



DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

MAILING ADDRESS (G-EEE-4/TP64 U.S. COAST GUARD WASHINGTON D.G. 20590 PHONE: (202) 426-1201

16565 Ser: 3663A

From: Commandant

To: Commander, Eighth Coast Guard District (e)

Via: Commander, Atlantic Area (At)

Subj: Replacement Loran-C Monitor Site

Ref: (a) Commandant ltr 16555.01/DB dtd 9 Oct 1979

(b) COGARD EECEN 041928Z Dec 79

- 1. Reference (a) authorized the disestablishment of USCG Loran-C Monitor Station Eglin, FL. It specified that the monitor equipment remain at Eglin and be operated in the unmanned mode until a suitable replacement monitor site could be established. A monitor site evaluation team from USCG EECEN investigated a proposed site at Destin, Fl. during the period 27-29 Nov 1979. Their findings were reported in reference (b). Based on these test results, the site at Destin is acceptable provided extra effort is devoted to attain the required 25 ohm ground resistance.
- 2. You are hereby authorized to install a Loran-C monitor at the site investigated by the EECEN monitor site evaluation team. Due to equipment shortages it will be necessary to use the Eglin equipment at Destin. Therefore, the Eglin monitor functions will be discontinued upon deinstallation of the equipment at Eglin and will not be resumed until Destin is operational. Your specific responsibilities for this installation are detailed in the following paragraph. Commander, Atlantic Area (Atl) will be responsible for the installation of data lines between Destin and LORSTA Malone and Destin and LORSTA Seneca and for certification of the site. EECEN will procure the Grasis enclosure and provide one person to supervise the installation of the equipment. The installation date is dependent upon the delivery date of the Grasis shelter. Historically, the delivery time has been 12-14 weeks. You will be advised of the delivery date when it is available.
- 3. Your specific responsibilities for establishing a monitor site in the vicinity of Destin, Fl. are listed below. Funds are available upon request to Commandant (G-CBU).
- a) Install an antenna at the site recommended by the EECEN monsite survey team. The antenna pedestal shall be constructed in accordance with the drawing of enclosure (1). Use the spare Model 222, 35' whip antenna and WO877 antenna coupler from Eglin for this installation. Install the antenna coupler in accordance with the

It's a law we can live with.

Subj: Replacement Loran-C Monitor Site

3.a)(con'td)drawings of enclosure (1). Note that the drill template should not be copied because dimension errors may be introduced.

- b) Install an antenna ground plane in accordance with the drawings of enclosure (1). The ground rods must extend below the water table minimum height to insure acceptable ground resistance and constancy.
- c) Install two twinax antenna cables between the equipment shelter and antenna. RG-111A/U MOD antenna cable is available from CG SUPCEN, Brooklyn, NY at no charge. Submit APA requisition to SUPCEN specifying the amount of cable required and its purpose. NSN 6145-01-030-3392 applies. Procure and install type UG-421-B/U twinax on the cables. Instructions for assembling the connectors and obtaining proper phasing are contained in enclosure (1).
- d) Install the Grasis equipment shelter (to be procurred by EECEN). The enclosure must be between 20 and 100 meters from the antenna. Elevate the enclosure to prevent flood damage. Details on the equipment shelter concrete foundation are contained in a drawing in enclosure (1). Footings or pilings may be required to support the foundation because of the soil conditions at Destin.
- e) Install the shelter ground system in accordance with the drawing in enclosure (1). The ground rods must extend below the water table minimum height.
- f) Provide power and local phone service to the shelter prior to installation of the equipment. Both services are to be provided by buried cable.
- g) Remove monitor equipment from Eglin and install it at the new monsite. One person from EECEN will be provided to supervise the move. You are to provide the remaining personnel and the moving equipment.
- h) Return Eglin's second Style 222, 35' whip antenna to SUPCEN Brooklyn. M/F Project 59C.
- i) Return Eglin's second W0877 antenna coupler, monitor rack and Austron 6019D Information Switch to EECEN, M/F Project WX024.

SPPhusel

Enclosure 1: Loran-C Monsite Construction Information

Copy to: Commandant (G-WAN-2)(less enclosure 1)
Commander, Eighth Coast Guard District (e)
Commanding Officer, USCG EECEN (less enclosure 1)



DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

Commaning Officer
USCG LORMONSTA
PO Box 459
Mary Esther, FL 32569
16562
19 December 1979

•From: Commanding Officer, USCG Loran Monitor Station, Eglin AFB, FL

To: Commander (eee), Eighth Coast Guard District

Subj: Destin Loran-C Monitor Site; information concerning

1. Talks concerning the location of the Austron 5000 Loran-C system inside the USAF VORTAC building (#8209) were held with personnel of the 1972nd Communication Squadron on 11 December 1979. Consensus of opinion was that installation of the system would not cause mutual interference between the TACAN/VOR and the Austron 5000. Examination of the building interior indicates that although there is room for the installation, the available space would be quite congested and best installation practices could not be observed. In July 1980, it is scheduled to relocate the TACAN from the building to Eglin Main, leaving only the VOR system. After TACAN removal more than ample space would be available for an installation.

- 2. AC power, including emergency generator power and telephone lines are available at the VORTAC building.
- 3. If a Grassis hut is to be utilized, it is suggested that the hut be located on the north side of the existing building at the edge of the existing hardtop to allow easy vehicle access to the hut. Location out in the sand would make access difficult. East/west hut orientation is suggested to reduce heating effects of the sun.
- 4. It was mentioned that during hurricane Eloise, that the bay rose such that one to two inches of water entered the building. Installation of the hut approximatley three to four feet above existing grade should insure safety of the building.
- 5. It is further suggested that antenna be located approximately 1000 feet east of the existing VORTAC building, and pedestal be elevated sufficiently to eliminate storm water problems.

6. Correspondence concerning use of site should be addressed to ADTC/TEPP, Eglin AFB.

R.E. BOLLBY

ENCL: Drawing proposed location



UNITED STATES COAST GUARD

COMMANDER (OAN)
EIGHTH COAST GUARD DISTRICT
HALE BOGGS FEDERAL BLDG.
SOO CAMP ST.
NEW ORLEANS, LA. 70130
(FTS) 682-6234

16562/Destin Ser 12 4 JAN 1980

From:

Commander, Eighth Coast Guard District

To:

Commandant (G-WAN)

Subj: Destin Loran-C Monitor Site

- 1. Commanding Officer, USCG Loran Monitor Station, Eglin AFB's letter 16562 dated 19 December 1979 is attached as enclosure (1) for your information.
- 2. Installation of the Austron 5000 Loran-C Monitor System utilizing a Grassis hut and antenna located as proposed in paragraph 3 through 5 of enclosure (1) is recommended and submitted for approval. Preliminary work on the proposed installation has progressed to the point that we now await approval before proceeding further.
- 3. Conceptual approval of an ISSA amendment for the monitor site use has been obtained from Eglin AFB. An amendment to an existing ISSA covering the location of a receiver at Destin will be initiated to cover monitor siting once final plans for the Destin monitor site are received.

W. A. WULFF By direction

Encl: (1) CO, USCG Loran Monitor Station, Eglin AFB's 1tr 16562 dtd 19 Dec 1979 w/encl

Copy to: COMDT (G-EEE-4) w/encl CCGD8 (eee) wo/encl







16565 Ser: 3665A JAN 10 1980

From: Commandant

To: Commander, Atlantic Area (Atl)

Subj: Replacement for Eglin Loran-C Monitor

1. The proposed monitor site in the vicinity of Destin, FL. is considered acceptable as a replacement for LORMONSTA Eglin. Commander, Eighth Coast District (e) will be tasked with the responsibility for the preparation of the Destin monsite. USCG EECEN will provide the Grasis equipment enclosure and one person to supervise the installation. You will be responsible for certifying the new installation, for providing 110 baud, full duplex, 60mA, neutral 110 VDC dedicated teleprinter links between the new monsite and both LORSTA MALONE and LORSTA SENECA and for terminating the links in Eglin. We anticipate that the links will be required in April/May 1980. Funds you require to accomplish your portion of the relocation are available upon request to Commandant (G-CBU).

BC Mills B. G. 1824 By Charaba

Copy to: Commandant (G-OTM)

Commander, Eighth Coast Guard District (e)

Commanding Officer, USCG EECEN



R

14 JAN 1980

R

G-WAN

G-W

G-EEE

TO CCGDEIGHT NEW ORLEANS LA
INFO COMLANTAREA COGARD NEW YORK NY
COGARD STATION DESTIN FL

142050

UNCLAS //NJ6562//

FROM G-WAN TO 0

DESTIN LORAN-C MONITOR SITE

- A. CCGD8 LTR 16562/DESTIN, SER 12, DTD 4 JAN 80
- B. COMDT LTR 16565, SER 3665A DTD 10 JAN 80
- THE PROPOSED MONITOR SITE AT DESTIN, FL IS ACCEPTABLE AS

 REPLACEMENT FOR LORMONSTA EGLIN. REF B OUTLINES BASIC

 RESPONSIBILITIES FOR ESTABLISHING THE DESTIN SITE. CCGD& WILL BE

 RESPONSIBLE FOR SITE PREPARATION, COMLANTAREA FOR CERTIFICATION OF

 INSTALLATION AND PROVISION OF LANDLINES, AND EECEN WILDWOOD FOR

 GRASSIS ENCL PROCUREMENT AND SUPERVISION OF INSTALLATION. CCGD& IS

 ALSO RESPONSIBLE FOR INCLUSION OF LORMONSITE DESTIN UNDER ISSA WITH

 THE USAF AT EGLIN.
- 2. DETAILED SITE PREPARATION INSTRUCTIONS ARE BEING FORWARDED.

CC

PREVIOUS	EDITIONS MAY BE	USED					DEZIIN
OFFICE OR DIVISION			G-WAN2	G-WAN			
INITIALS OF RESPONSIBLE OFFICERS			M			W. G. WA	LKER
INTRA-OFFICE OR DIVISION INITIALS	J.F. WESEI		472-58			Acting	
H28			PWILL				