



U. S. NAVAL OBSERVATORY

WASHINGTON, D. C. 20390

IN REPLY REFER TO

62
2400
Ser 91

JAN 23 1968

From: Superintendent, U. S. Naval Observatory
To: Commandant, U. S. Coast Guard (O), Washington, D.C.

Subj: Proposal for use of U. S. Coast Guard Loran-C monitor station in Fuchu, Japan as U. S. Naval Observatory Time Reference and Monitor Station

Ref: (a) DoD Directive 5160.51 of 1 February 1965
(b) DoD Instruction 4630.4 of 22 June 1966
(c) Time Service Announcement of 21 Sep 1967 (attached)

1. References (a) and (b) established Single Manager responsibilities for coordination, control, and dissemination of precise time within the Department of Defense (DoD) and charged the Superintendent, U. S. Naval Observatory, with the execution of these responsibilities.
2. Reference (c) lists a number of U. S. Naval Observatory reference and monitor stations which have been set up in cooperation with various organizations in partial support of the responsibilities mentioned in paragraph 1.
3. Existing requirements, which have been coordinated with the U. S. Coast Guard Loran-C Management, now dictate the need to synchronize and monitor the output of the Loran-C Master Station in Iwo Jima, WestPac. This monitoring will be required beginning in March 1968. It will necessitate activities very similar to the ones, at the present time, that are executed by Detachment CHARLIE in respect to the Johnston Island Loran-C Master Station.
4. Preliminary discussions with Lt Cdr George Asche and Lt Cdr Paul Pakos of the U. S. Coast Guard have indicated the possibility of using the U. S. Coast Guard Loran-C Monitor Station in Fuchu, Japan, for the purposes mentioned above.
5. Although other possibilities for the establishment of a U. S. Naval Observatory Time Reference and Monitor Station in the Japanese area do exist, the use of the Coast Guard Loran-C Monitor Station, Fuchu, Japan, for this purpose appears extremely desirable for the following reasons:
 - a. Direct communication with the Coast Guard Master Station on Iwo Jima is already established.
 - b. The combination of equipment available at the monitor station together with equipment which would be supplied by the U. S. Naval Observatory would result in a considerable improvement of operations in the interest of both missions.

3029

JAN 23 1968

6. Assuming that the Loran-C Monitoring Station discussed in paragraph 4 above is established by the U. S. Coast Guard, it is requested:

a. That permission be granted to the U. S. Naval Observatory to declare the U. S. Coast Guard Monitor Station, Fuchu, Japan, as a U. S. Naval Observatory Time Reference and Monitor Station.

b. That arrangements be made to allow the U. S. Naval Observatory to ship equipment for the subject purpose to the monitor station and to indoctrinate its personnel in the necessary activities.

7. The equipment envisioned for indefinite loan consists of the following:

- 1 cesium beam atomic frequency standard, Model HP 5061A
- 1 emergency power supply for the frequency standard
- 1 cesium beam atomic frequency standard, Model HP 5061A or 5060A, as standby clock (portable clock)
- 4 VLF receivers for phase tracking of Naval VLF stations
- 2 Brown multipoint 6-channel recorders
- 1 phase detector for intercomparison of the 2 cesium beam frequency standards
- 1 electronic counter and time interval meter, type HP 5245L
- 2 Loran-C epoch monitor-timing receivers

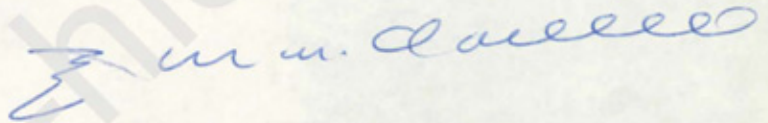
All of the above equipment will be mounted in three 6-foot relay racks. The portable atomic clock will represent a separate package of the usual dimensions.

8. Services to be performed by the U. S. Naval Observatory. The U. S. Naval Observatory will be responsible for regular visits to the Time Reference Station for the purposes of synchronization and familiarization concerning the time reference activities. The U. S. Naval Observatory will provide replacement equipment, as necessary. Support services to be performed by the U. S. Coast Guard personnel. After initial indoctrination and based on the experience with the NavAstroGru Det C in Hawaii, it can be expected that U. S. Coast Guard technicians time in the order of 1 hour per day will be required in support of the time reference and monitor activities to be performed. The work consists principally of regular servicing of the recorder, taking of readings twice per day, and dispatch of 1 message per day to the U. S. Naval Observatory, Washington, D. C. The regular communication with the U. S. Coast Guard Master Station on Iwo Jima will only occasionally have to be augmented by information regarding the precise timing of the emissions. In essence, therefore, the monitoring activities will provide:

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- a. Regular daily information for the U. S. Naval Observatory.
 - b. Direct information for the Master Station in Iwo Jima regarding timing.
 - c. The monitor station, in addition, will also be accessible to visiting portable clocks from DoD and other U. S. Government Agencies.
9. The activities are proposed as cooperative efforts on a non-reimbursable basis. An interservice support would follow when these informal arrangements are finalized.
10. It is hoped that the requested arrangements and permission can be granted by the Commandant, U. S. Coast Guard, as soon as practicable, in view of PROJECT CAESAR support requirements.



J. M. McDOWELL

FUCHU



U. S. NAVAL OBSERVATORY

WASHINGTON, D. C. 20390

OAN-3 IN REPLY REFER TO

3930 62

2400

30 JAN 1968

JAN 23 1968

Chief, Office of Engineering

Chief, Office of Operations

From: Superintendent, U. S. Naval Observatory

To: Commandant, U. S. Coast Guard (O) Fuchiu, Japan
Naval Observatory Proposal regarding use of Coast Guard Loran Monitor Station, Fuchiu

Subject: Proposal for use of U. S. Coast Guard Loran-C monitor station in Fuchiu, Japan as U. S. Naval Observatory Time Reference and Monitor Station

Ref: (a) CCS memo 28 Feb 1964

1. Enclosure (1) is a request from the U. S. Naval Observatory for support services in connection with their responsibility for coordination; control and dissemination of precise time.

2. In consonance with reference (a) and recognizing that a great deal of technical exchange between representatives of the Electronics Engineering Division and the Observatory regarding Loran-C timing has taken place over the past few years, it is requested that you take the enclosure for action. There is no operational requirement or consideration which would preclude the Coast Guards' compliance with the request assuming only that the technical support requested is within the capability of the Coast Guard personnel assigned.

3. Please keep me informed of the intent and scope of any agreement consummated relating to subject proposal. I would be interested in your comments on paragraph 5b of enclosure. This monitoring will be required beginning in March 1968. It will necessitate activities very similar to the ones, at the present time, that are executed by Detachment CHARLIE in respect to Iwo Island Loran-C Master Station.

JAN 30 1968

R. W. GOEHRING

4. Preliminary discussions with Lt Cdr George Asche and Lt Cdr Paul Pakos of the U. S. Coast Guard have indicated the possibility of using the U. S. Coast Guard Loran-C Monitor Station in Fuchiu, Japan for the purpose indicated above.

5. Although other possibilities for the establishment of a U. S. Naval Observatory Time Reference and Monitor Station in the Japanese area do exist, the use of the Coast Guard Loran-C Monitor Station, Fuchiu, Japan, for this purpose appears extremely desirable for the following reasons:

a. Direct communication with the Coast Guard Master Station on Iwo Jima is already established.

b. The combination of equipment available at the monitor station together with equipment which would be supplied by the U. S. Naval Observatory would result in considerable improvement of operations in the interest of both agencies.

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CGPOMLE: pab 25 Jan 68

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FUCHU

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ACTION: EEE
INFO: OAN

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PTTUZYUW RUHHAGA7558 0370203-UUUU--RUCIJGA.
ZNR UUUUU
P 060143Z FEB 68
FM CCGD FOURTEEN
TO RUCIJGA/COMDT COGARD
RUAUBAC/COMFESEC COGARD
BT
UNCLAS
E TO COMDT EEE
LORAN C MONITOR

A. COMDT 022224Z FEB 68 PASEP

1. CONSIDER REDUNDANCY IMPORTANT AT ANY MONITOR STATION. NAG-C CURRENTLY ASSISTS JOHNSTON IN REGAINING EPOCH SYNC AFTER MASTER JUMPS. THIS REQUIRES MORE THAN ONE MONITOR EQUIP TO INSURE THAT LORAN C HAS JUMPED AND NOT MONITOR EQUIP.
2. SUGGEST INCREASE COMPLEMENT BY TWO, ONE ET1 AND ONE ET3. ET1 SHOULD HAVE SPDCIAL TRAINING IN TIMING SYSTEMS. NAG-C CURRENTLY HAS ET1 AND ET2 ASSIGNED TO TIMING SYSTEM. ET3 NEEDED TO ASSIST IN PM AND TO ASSIST REGULAR WATCHSTANDER IN RESYNCHING TIMING MONITOR RECEIVERS AFTER MASTER JUMP OR OVERLOAD.
3. MONITOR STATION MAINTENANCE SHOULD BE LIMITED TO MINOR ITEMS WITH EQUIP RETURN TO NAVCPS FOR MAJOR REPAIRS.
4. REQUEST ANY FURTHER COMMENTS FROM COMFESEC, INCLUDING AVAILABILITY OF EQUIP SPACE, ELEC POWER, AND AIR COND.

BT
RM

PRIORITY

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 PFTUZYUW RUWYSA0930 0370746-11111--RUCIJGA.
 ZNR UUUUU ZOV RUAUBA
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 DE RUAUBAC 0100 0370533
 ZNR UUUUU
 P 060633Z FEB 68
 RM COMFESEC COGARD
 TO RUCIJGA/COMDT COGARD
 RUHHAGA/CCGDFOURTEEN
 BT
 UNCLAS
 LORAN-C MONITOR FUCHU
 A. COMDT 022224Z FEB 68
 B. CCGD14 060143Z FEB 68
 1. SPACE AVAIL FOR THREE SIX FT RACKS.
 2. ELEC PWR: 105/210 VAC-50 CPS, 100VAC-50 CPS, 105/125 VAC-400
 CPS WITH EMERG GEN OF SIX HR CAPACITY.
 3. PRESENT THREE TON AIR COND UNIT MARGINAL, RECOMMEND FIVE TON
 UNIT IF ADDITIONAL EQUIP. ADDED.
 4. CONCUR WITH REF B. ON INCREASE OF COMPLEMENT, DUE PRESENT
 WORKLOAD OF LORAN-C AND OMEGA MONITORING AND MAINTENANCE.
 ET

ACTION: EEE
 INFO: OAN /

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XF

PRIORITY

3267/c2

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RCVD MAR 14 1968 OAN

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14 MAR '68 16:14

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-DE RUEBPAA 093 0741531
ZNR UUUUU
R 141445Z MAR 68
FM SUPT NAVOBSY WASH DC
TO COMDT COGARD
BT

ACTION: EEE

INFO: ECV
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UNCLAS
A. YOUR 132140Z MAR 68
B. MY LTR SER 91 OF 23 JAN 68
1. FINAL DECISION ON ESTABLISHMENT OF TIME MONITOR STA AT LORAN-C MONITOR STA FUCHU JAPAN PROPOSED BY REF B WILL BE DEFERRED UNTIL RECEIPT OF YOUR LTR DETAILING ADMINISTRATIVE AND MAINTENANCE SUPPORT REQUIREMENTS.
2. AS STATED IN REF B FUNDS ARE NOT AVAILABLE FOR LOGISTIC SUPPORT IN JAPAN.
BT

JW

N

www.loran-history.info

1000
20 MAY 1969
Serial: 32221

From: Commander, Fourteenth Coast Guard District
To: Commandant (CPA)

Subj: Additional Electronics Technician; request for

Ref: (a) COMDT ltr 0238EEE of 8 March 1968

1. Reference (a) states that if a time monitor station is established at Fuchu Loran-C Monitor Station the personnel allowance will be increased by one electronics technician. The time monitor station was established in April 1968, and there has been no increase in personnel allowance to date.

2. It is requested that the allowance be increased by one ET1 or ET2. This ET should have some type of Loran-C training and experience (preferably AN/SPN-30) and should receive one week training in timing equipment and procedures from the Naval Observatory prior to arrival at Fuchu. An additional one week training on the GCP-W 425 Timing Cabinet would prove beneficial to the Section Office. This training might be best conducted at Electronics Engineering Center, Wildwood. No offsetting resource is available within this district.

R. C. GOULD
Chief of Staff
Acting

*Talked to CPA
have received info from CPA on bill
However must talk to EEE on
EEE's arrival in latter July
JPC*

Copy to:
COMPESEC
COMDT (EEE)
COMDT (OAN)

| AIDS TO | | INITIALS |
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| ACT | INFO | |
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