



TREASURY DEPARTMENT
UNITED STATES COAST GUARD

Address reply to:
COMMANDER
11TH COAST GUARD DISTRICT
HEARTWELL BUILDING
19 PINE AVENUE
LONG BEACH, CALIF. 90802

e
Ser 10553.3-224
16 October 1964

From: Commander, Eleventh Coast Guard District
To: Commandant(EEE-2)

Subj: Loran-A Rate 2H1; Master Time Delay; change in

1. San Mateo Point Loran Station (2H1-M) is presently operating with an assigned time delay value of 3076.2 \pm 2.0 microseconds.
2. Forwarded herewith as enclosures are plots of the statistical analysis of the Master Time Delay Recording Charts for the month of August and September 1964. The plotted results indicate that both the assigned standard time delay and operating sync tolerance can be changed without degrading the service or increasing the lost time.
3. From the graphical presentation it can be seen that a new standard time delay of 3075.2 \pm 1.0 microseconds is possible. This shift in standard time delay from the presently assigned number has been investigated, and is attributed directly to the installation of new loran transmitting equipment, namely, the AM-1700/FPN Loran-A Amplifier at the slave station, Point Arguello.
4. Coast Guard Headquarters "Loran Rate Engineering Data Sheet" for rate 2H1, dated July 21, 1964, indicates a computed Master Time Delay of 3074.8446. The calculated time delay using the Modified Hayford Solution is 3075.441. The average of these two delays is 3075.143.
5. However, because of the difficulty of setting up a timer accurately for a time delay other than a cardinal number of microseconds, it is recommended that a standard time delay of 3075.0 with a sync tolerance of \pm 1.0 microseconds be assigned.


R. L. MELLEN
Chief of Staff

Encl: (1) Plot of Average Delays for August 1964
(2) Plot of Average Delays for September 1964

cc:
COMDT(OAN)
LorSta Point Arguello
LorSta San Mateo Point



4-6096

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OAN-3

NOV 2 1964

From: Commandant
To : Commander, Eleventh Coast Guard District (o)

Subj: Loran-A Rate 2H1; Master Time Delay Change; authorization of

Ref : (a) CCGD11 ltr Serial 101553.3-224

1. Reference (a) requested a change in the standard Master Base Line Extension Time Delay. This change is hereby authorized and shall now be 3075.0 microseconds. The synchronization tolerance of Loran-A Rate 2H1 is hereby assigned at plus or minus 1 microsecond as further requested by reference (a).

S
B. R. RYAN
By direction

Copy to: EEE