

UNITED STATES COAST GUARD



ADDRESS REPLY TO:  
 COMMANDER  
 14TH COAST GUARD DISTRICT  
 P. O. BOX 4010  
 HONOLULU, T. H.

0  
 6 August 1957  
 A6  
 Serial: 17207

From: Commander, 14th Coast Guard District  
 To: Commandant (O)

Subj: Loran Station Direct Radio Communications

Ref: (a) JCGDFLORLAN(c) ltr Serial 18065, Ab of 5-10-57  
 (b) COMDT(OC) ltr Serial 377-o-OC of 5-23-57  
 (c) COMDT(CAR) ltr of 7-10-57

2  
 1 (D) J  
 3: Route

1. Reference (a) approved the request of reference (a) to establish direct radio communications between Loran Stations Wake, Niwetok, and Kwajalein. Reference (c) establishes policy for Loran station communications and requests justification in support of reference (a).

2. At the present time all 14th Coast Guard District Loran stations, save the three (b) named above, have facilities capable of direct communications between paired stations in individual Loran chains. Category classification of all stations are as shown below with none of the stations in category 1 and 2 having need to communicate direct with Coast Guard logistic air or surface craft:

| <u>CATEGORY 1</u> |          | <u>CATEGORY 2</u><br>(CAA Communications) | <u>CATEGORY 3</u>     |            |
|-------------------|----------|---|-----------------------|------------|
| Saipan            | Pusan    | Wake Island                               | Hawaii                | Batan      |
| Miyako Jima       | Niho     |   | Holokai               | Palau      |
| Iwo Jima          | Migata   |   | Kauai                 | Oshima     |
| Nomaike           | Matsumae |   | French Frigate Shoals | Laulo Pt.  |
| Kwajalein         | Eniwetok |   | Guam                  | Okinawa    |
|                   |          |   | Catanduanes           | Talampulan |
|                   |          |   | Mititi                | Tarumpitao |

3. The provision of direct radio communications between paired Loran stations in this district conforms with JCGDFLORLAN(CAR), Annex H, Appendix 5, Paragraph 4(a).

4. While the present blinking system is considered adequate for indicating impairment of Loran service as it affects the user, it is not always an indication of erratic operation of the stations concerned. Neither is absence of blinking an indication that Loran transmissions conform with acceptable standards. Direct communications between paired stations and not modification of standard blinking procedures is recommended as the better solution to problems of this nature.

CCGDFOURTEEN to  
COMDT(0)

o  
6 August 1957  
A6  
Serial: 17207

5. An example of when blinking is not an indication of erratic station operation is when Eniwetok properly blinks because it is not able to read Wake's signal with confidence because of local Armed Forces interference. Wake, observing blink signal, properly checks, switches gear, rechecks, etc., to assure its signal being properly transmitted. Not observing cessation of blink by Eniwetok or knowing the cause of blink, Wake continues the check, switch gear, recheck, etc., process for 30 minutes before reporting to "superior" (See CCGDFOURTEEN OPLAN, Annex H, Appendix 5, Paragraph 4(b)). Thus for 30 minutes the tenseness, efforts and skills of Wake personnel are taxed to the utmost without avail when the situation could have been cleared in five (5) minutes by direct communication between units.

6. An example of absence of blink not being an indication of high quality station operation is when the top of pulse may flutter without affecting accuracy of transmissions. This condition can cause the observer to be suspicious of readings or perhaps consider his receiving equipment at fault. Through communications direct between stations, this quality of signal condition can be corrected without resort to roundabout reference to the "superior" with resultant unnecessary delays and communications.

7. It is the opinion of this command that Commanding Officers of loran stations should be provided with every reasonable means to enable them to maintain high efficiency in operation without having to unnecessarily cope with and subject station personnel to expend efforts uselessly. Accordingly it is requested reconsideration be given to providing direct communications between stations named in reference (a) and approved by reference (b).

  
S. W. EVANS

| CCGDFOURTEEN |              |
|--------------|--------------|
| 2            | CCGDFOURTEEN |
|              | Asst. Ch.    |
|              | Rec.         |
|              | Exec.        |
|              | Hydro.       |
|              | Publ.        |
|              | H. to H.     |
|              | Chart        |
|              | All          |
|              | PLS          |

**RECEIVED**  
SEP 10 1957  
OPERATIONS  
AIDS TO NAVIGATION DIV. 877