

CONFIDENTIAL

2 JUL 65 22:54 7

RJD242

CDC356
 RR RUECJD
 DE RUECD 00473 1831415
 ZNY CCCCC
 R 021415Z
 FM DIRSPEC PROJ
 TO RUECW/CNO
 INFO RUEGXC/DEPCOM SUBLANT
 RUCKDR/COMSUBLANT
 RUHPE/COMSUBPAC
 RUHLHL/CINCPACFLT
 RUCKHC/CINCLANTFLT
 RUECJD/COMCOGARD
 RUECYW/NAVOCEANO
 RUECD/BUSHIPS
 RUECM/BUWEPS
 RUECM/CNM
 RUECGTAJ/SPOTR SYOSSET

INFO: OAN

EEE

63368

BT
 C O N F I D E N T I A L
 LORAN-C CHARACTERISTICS (10

A. SPO 261706Z OCT 64 NOTAL

B. CONF CDR MATHEWS USCG AND T.A. KING SP2411 21 JUN 65

1. CHANGE IN SPACING OF NINTH PULSE FROM CURRENT SIX HUNDRED TO PROPOSED TWO THOUSAND MICROSECONDS SPACING AND CHANGE IN BLINK PROCEDURES HAS BEEN UNDER DEVELOPMENT BY USCG SINCE 1963 TO IMPROVE GENERAL LORAN-C OPERATION AND MECHANIZATION OF AUTOMATIC SEARCH IN NEW DESIGN RCVPs.

2. SPO HAS INVESTIGATED EFFECTS ON WPN/3A OPERATION OF SHIFTING

OAN DIVISION	
4	CHIEF
3	ASST
	PLAN
	HYDRO
1	ELEC 1
2	ELEC 2
	ELEC 3
	A/N M.
	PUB
	N. M.
	CHARTS
	ATL

Page 1 of 2 Pages

*Richards
667333*

CONFIDENTIAL

021415Z

305

PAGE TWO RUECD 00473

NINTH PULSE FROM 600 TO 2000 MICROSECONDS. ALTERATIONS TO AN/WPN-3/3A RCVR POPULATION TO MAINTAIN AUTOMATIC BLINK ALARM WITH 2000 MICROSECOND SEPARATION ARE ESTIMATED TO COST OVER \$200,000. SUCH ALTERATIONS ARE CONSIDERED AS NOT ECONOMICALLY JUSTIFIED SINCE THE AUTOMATIC BLINK FEATURE IS CONSIDERED OF MARINAL UTILITY.

3. EFFECT OF CHANGE TO 2000 MICROSECS AS NOTED ON AN/WPN-3,3A WILL GENERALLY BE A CONTINUOUS INDICATION OF BLINK ALARM AND THE OPERATION LIGHT WILL GO OUT.

4. WHEN OPERATING WITH 2000 VICE CURRENT 600 MICROSECOND NINTH PULSE SEPARATION WPN3/3A USERS SHOULD EFFECTIVELY DISABLE AUTOMATIC BLINK ALARM BY ADJUSTING R8 ON SIGNAL CONVERTER "A" (UD2A7) TO MAXIMUM COUNTER CLOCKWISE POSITION. MONITORING OF BLINK SIGNAL AND NINTH PULSE CAN BE DONE VISUALLY ON SCOPE. DISABLING OF BLINK ALARM WILL NOT AFFECT CURRENT ABILITY OF RCVR TO SEARCH OR TRACK LORAN-C SIGNALS.

5. SPECIAL PROJECTS OFFICE HAS NO OBJECTION TO SHIFT TO 2000 MICROSECOND NINTH PULSE SPACING VICE CURRENT 600 MICROSECOND SPACING. EFFECT ON OPERATION WITH AN/WPN-3/3A LORAN-C RCVR CONSIDERED NOT SIGNIFICANT.

6. RCMD APPROVAL OF COGARD SHIFT TO 2000 MICROSECOND NINTH

PAGE THREE RUECD 00437 C O N F I D E N T I A L

PULSE SEPARATION TO BE EFFECTIVE AS PROPOSED BY COGARD REF B ABOUT 1 SEP 65.

7. REQUEST USCG OR NAVOCEANO PROMULGATE FULL DETAILS OF BLINK PROCEDURES TO BE USED IN ALL OPERATING AREAS WHEN SHIF TAKES PLACE.

8. BY COPY THIS MSG REQUEST BUSHIPS, BUWEPs, CINCLANTFLT, CINCPACFLT, COMMENT DIRECT TO OPNAV ON PROPOSED 1 SEP SHIFT.

9. FOR CDR MCINTYRE OP35. WHILE THIS CHANGE TO 2000 MICROSECONDS SPACING IS CONSIDERED AS HAVING ONLY MINOR EFFECT IT IS UNDERSTOOD THAT OTHER CHANGES ARE UNDER CONSIDERATION, RELATED IN SOME CASES TO LORAN-D, WHICH SHOULD BE MONITORED CAREFULLY TO AVOID SIGNIFICANT OPERATION EFFECTS OR COSTS TO THE FBM PROGRAM WHICH IS THE PRINCIPAL USER OF LORAN-D.

GP-4

BT

WP

021415Z

NNNN