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2 JUL '65 22:54

RJD242¹

CDC356
RR RUECJD
DF RUECD 00473 1831415
ZNY CCCCC
R 021415Z
FM DIRSPECPROJ
TO RUECW/CNO
INFO RUEGXC/DEPCOMSUBLANT
RUCKDR/COMSUBLANT
RUHPE/COMSUBPAC
RUHLHL/CINCPACFLT
RUCKHC/CINCLANTFLT
RUECJD/COMCOGARD
RUECYH/NAVOCEANO
RUECD/BUSHIPS
RUECM/BUWEPS
RUECM/CNM
RUECCGTAJ/SPOTR SYOSSET
BT

C O N F I D E N T I A L

LORAN-C CHARACTERISTICS (U)

A. SPO 261706Z OCT 64 NOTAL

B. CONF CDR MATTHEWS 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 BLINK PROCEDURES HAS BEEN UNDER DEVELOPMENT BY USCG SINCE 1963 TO IMPROVE GENERAL LORAN-C OPERATION AND MECHANIZATION OF AUTOMATIC SEARCH IN NEW DESIGN RCVRS.

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

¹ Transcribe from original located at NARA Washington, D. C.

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PAGE TWO RUECD 00473 C O N F I D E N T I A L

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 ALTERNATIONS 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 THE 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 CONVERTOR "A" (UD247) 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

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PAGE THREE RUECD00437 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 SHIFT TAKES
PLACE.

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

9. FOR CDR MCINTYRE OP35, WHILE THIS CHANGE TO 2000 MICROSECONDS
SPACING IS CONSIDERED AS HAVING ONLY MINOR EFFECT IT IS UNDER-
STOOD 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.

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