

## Message Text

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PAGE 01 STATE 128285

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C O N F I D E N T I A L STATE 128285

E.O. 11652: GDS

TAGS: ETEL, MARR, NO

SUBJECT: CLARINET PILGRIM ASPECT OF LORAN C

REF: (A) OSLO 1858; (B) OSLO 2003

LONDON FOR COAST GUARD

1. PARAS 2 - 10 BELOW CONTAIN SUGGESTED DRAFT TEXT OF NOTE WHICH WOULD FORMALLY PROPOSE TO GON THAT CLARINET PILGRIM SYSTEM BE ADDED TO PRESENT LORAN C OPERATIONS IN NORWAY. IF THIS TEXT IS APPROPRIATE, YOU MAY DELIVER TO MFA. WE REALIZE THAT RESPONSE TO NOTE MAY BE LONG IN COMING.

CONFIDENTIAL

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PAGE 02 STATE 128285

2. BEGIN TEXT. TRANSMITTING STATIONS OF THE LORAN C

RADIONAVIGATION SYSTEM ARE NOW OPERATING IN THE NORTH ATLANTIC REGION, IN NORWAY AT JAN MAYEN AND B&, IN ICELAND AT SANDUR, IN DENMARK AT EJDE (FAEROES) AND ANGISSOQ (GREENLAND), IN WEST GERMANY AT SYLT, AND AT CAPE RACE, NEWFOUNDLAND. THE STATIONS ALL OPERATE ON THE FREQUENCY OF 100 KHZ IN ACCORDANCE WITH INTERNATIONAL REGULATIONS, AND AS AGREED IN BILATERAL AGREEMENTS BETWEEN THE RESPECTIVE COUNTRIES AND THE UNITED STATES. THESE STATIONS ARE NOW USED ONLY FOR NAVIGATIONAL AND TIME DISTRIBUTION OR SYNCHRONIZATION PURPOSES.

A SYSTEM, NOW GENERALLY REFERRED TO AS CLARINET PILGRIM, HAS BEEN IN USE IN THE NORTHWEST PACIFIC LORAN C CHAIN SINCE 1968. IT WAS PREVIOUSLY EXPERIMENTALLY TESTED IN THE NORTH ATLANTIC REGION AND WOULD ACCOMMODATE COMMUNICATIONS IN ADDITION TO THOSE NAVIGATIONAL AND SYNCHRONIZATION USES OF THE PRESENT NORTH ATLANTIC REGIONAL RADIONAVIGATION SYSTEM. CLARINET PILGRIM HAS NOW BEEN IN OPERATION IN THE PACIFIC FOR APPROXIMATELY SEVEN YEARS. IN THIS PERIOD, WE HAVE ASCERTAINED THAT THERE HAVE BEEN NO INCIDENTS OF INTERFERENCE TO THE NAVIGATIONAL USES OF THE SYSTEM. FURTHERMORE, THERE HAVE BEEN NO REPORTS OF INTERFERENCE TO OTHER COMMUNICATIONS SERVICES.

ADDITIONAL COMMUNICATION CAPABILITY IS URGENTLY REQUIRED IN THE NORTH ATLANTIC REGION. EXISTING NAVY FLEET BROADCAST TRANSMITTERS DO NOT HAVE ENOUGH POWER OR CAPACITY TO COVER ALL OCEAN AREAS. ALSO WE WOULD WISH TO HAVE COMMUNICATIONS BETWEEN VARIOUS STATIONS OF THE NORTH ATLANTIC LORAN C RADIO NAVIGATION SYSTEM. BY INTEGRATING CLARINET PILGRIM INTO THE EXISTING NORTH ATLANTIC LORAN C TRANSMITTING STATIONS ADDITIONAL TRANSMISSIONS WOULD BE PROVIDED FOR AND WOULD PRECLUDE THE NEED TO CONSTRUCT ADDITIONAL LOW FREQUENCY HIGH POWER COMMUNICATION TRANSMITTING FACILITIES.

BY EMPLOYING DUAL USE OF THE LORAN C EMISSIONS, FOR NAVIGATION AND FOR COMMUNICATIONS, WE WILL BE ABLE TO MAKE A MORE EFFICIENT AND ECONOMICAL USE OF THE RADIO FREQUENCY SPECTRUM AND RELIEVE THE ALLOCATION DEMANDS OF THIS  
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PAGE 03 STATE 128285

VALUABLE WORLDWIDE RESOURCE. IT IS IN ACCORDANCE WITH THE INTERNATIONAL ALLOCATION PROVISIONS FOR THE ASSIGNED LORAN C FREQUENCY OF 90-110 KHZ. THE COMMUNICATIONS WILL BE APPLIED SO AS NOT TO CHANGE THE NAVIGATIONAL CAPABILITY OF THE SYSTEM. THE OBLIGATION NOT TO CAUSE HARMFUL INTERFERENCE TO OTHER SERVICES IN THE SAME, OR ADJACENT, FREQUENCY BANDS WOULD REMAIN UNCHANGED.

WE PROPOSE TO COMMENCE BY PROVIDING FOR THE US NAVY FLEET BROADCAST SERVICE. IF FOUND TO BE DESIRABLE AND TECHNICALLY AND OPERATIONALLY FEASIBLE, ADDITIONAL CHANNELS MIGHT BE ADDED FOR INTERSTATION (LORAN C) COMMUNICATIONS AND/OR FOR OTHER OFFICIAL COMMUNICATIONS REQUIREMENTS, TO THE MUTUAL BENEFIT OF BOTH NORWAY AND THE UNITED STATES. CLARINET PILGRIM DOES NOT REQUIRE INCREASED POWER, NEW BUILDINGS, OR NEW ANTENNAS, AND CAN BE OPERATED AND MAINTAINED WITH NO INCREASE IN STATION PERSONNEL. THE

CLARINET PILGRIM EQUIPMENT REQUIRED IS RELATIVELY SMALL AND CAN READILY BE ACCOMMODATED WITHIN THE EXISTING LORAN C STATIONS.

IN ORDER TO PROVIDE OPTIMUM CLARINET PILGRIM COMMUNICATIONS SERVICE IN THE NORTH ATLANTIC REGION, CLARINET PILGRIM INSTALLATIONS WILL BE REQUIRED IN THE LORAN C TRANSMITTING STATIONS LOCATED IN NORWAY AT JAN MAYEN AND B8, AND IN ICELAND AT SANDUR. WE HAVE SOUGHT AND RECEIVED APPROVAL FOR THE INSTALLATION AT SANDUR, ICELAND.

THEREFORE, WE REQUEST YOUR ADVICE AND ASSISTANCE FOR INSTALLATION OF CLARINET PILGRIM EQUIPMENT IN THE LORAN C TRANSMITTING STATIONS LOCATED AT JAN MAYEN AND BQ. INITIAL OPERATIONAL TESTING WOULD BE UNDER THE TECHNICAL AND OPERATIONAL GUIDANCE OF COMMANDER, US COAST GUARD ACTIVITIES, EUROPE. THAT COMMAND IS LOCATED IN LONDON, AND MAINTAINS CLOSE CONTACT WITH RESPONSIBLE NORWEGIAN AUTHORITIES IN ALL MATTERS CONCERNING LORAN C.

IT IS INTENDED THAT TRAINING OF NORWEGIAN PERSONNEL IN THE OPERATION AND MAINTENANCE OF CLARINET PILGRIM EQUIPMENT WILL BE ACCOMPLISHED IN NORWAY, AT THE LORAN C TRANSMIT-  
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PAGE 04 STATE 128285

TING STATION WHERE THE EQUIPMENT IS INSTALLED. END TEXT.  
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## Message Attributes

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