

UNITED STATES COAST GUARD

ADDRESS REPLY TO  
THE COMMANDANT (EEE-n) WASHINGTON 25, D. C.  
REFER TO FILE CG-815

VIA AIR MAIL

24 November, 1947

Mr. A. Skov Knudsen  
Chief, Technical Division  
Royal Danish Lighthouse and  
Beacon Service  
Overgaden o. Vandet 6  
Copenhagen, Denmark

Dear Mr. Knudsen:

Your letter of 13 November, 1947 has been received and is acknowledged. It is understandable that some confusion with respect to the operation of Skuvanes Head Loran station exists in view of the expected change in station administration. In order to clear-up some of the misunderstandings relative to what technical equipment was furnished for this station I shall review generally the entire picture regarding Loran equipment furnished by the U. S. Government through the medium of our office.

In response to the Director, Royal Danish Lighthouse and Beacon Service letter dated 11 October, 1946 action was taken by this office to make available complete Loran equipment to modernize the technical equipment at Skuvanes Head (Faeros Island) Loran station. This equipment was purchased outright by your Government on Sale Document WAA-1 Number 4499830, Direct Sale Number W-59. The equipment was consigned and shipped on 7 March, 1947 to Marineministeriet, Copenhagen, Denmark. It was assumed the equipment would be installed at Skuvanes Head upon its arrival in Denmark. Unfortunately, until receipt of this last letter we had no definite information relative to the installation status of this equipment. For your information the shipment consisted of the following equipment:

1 each	Loran Timer Model C complete with tubes and spare parts. Serial No. 163
1 each	Loran Timer Model C complete with tubes and spare parts, Serial No. 111
1 each	Loran Timer Model C-1 complete with tubes and spare parts. Serial No. 244
1 each	Loran Timer Model C-1 with tubes and spare parts. Serial No. 256
4 each	Equipment spare parts for Model C and C-1 Loran Timers. Serial No's. 111-163-244-246
1 each	Loran Switch Gear Type UK complete with spare parts and vacuum tubes, Serial No. 1
1 each	Loran Transmitting Monitor Oscilloscopes Type OCA complete with spare parts and tubes. Serial No. 74
1 each	Loran Transmitting Monitor Oscilloscopes Type OCA complete with spare parts and tubes. Serial No. 46
1 each	Loran Transmitting Antenna Coupling and Switching Unit Type GYJ-47369. Serial # 1

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- 1 each Isolation Transformers 6 KVA. For Loran
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- 1 each Loran Transmitter Type REL-575-BC complete with spare parts and tubes. Serial No. 6674
- 1 each Loran Transmitters Type REL-575-BC complete with spare parts and tubes. Serial No. 6708
- 1 each Loran Timer Synchronizer, Model C complete. Serial No. 83
- 1 each Loran Timer Synchronizer, Model C complete. Serial No. 86
- 1 each Loran Receiving Antenna Coupling Unit complete with birdhouse. No special No.

The above enumerated equipment was furnished to replace older equipment in order to reduce the maintenance problems and to improve reliability of the service rendered. When this equipment was supplied there was no intent or any indication that any of the original equipment was to be returned to the United States. The offer recently made by the United States at Atlantic City was to furnish transmitting equipment only with a view toward reducing interference to other services resulting from Loran transmissions. In this offer two (2) TDP-1 transmitters are to be furnished at no cost on an exchange basis. That is, the two (2) above mentioned REL-575 BC transmitters would be returned in exchange for the two (2) model TDP-1 transmitters. It may be well to advise those concerned in Denmark that the U. S. Government expects to furnish the following items:

- 2 each Model TDP-1 transmitter
- 1 each Model TDP-1 antenna coupling unit
- 1 each Model TDP-1 line switching and junction box

This matter of furnishing two (2) model TDP-1 model Loran transmitters and associated components for the Skuvanæs Head station is now in the hands of our State Department, who will advise our office relative to the consignee and other shipping information. Definite action should result in the near future. I will be happy to advise your office upon receipt of that information.

It is suggested that every effort be made to install the equipment furnished on 7 March, 1946 and that such installation not be held in abeyance pending arrival of the model TDP-1 equipment. The later installation and adjustment of the new transmitters is a comparably simple matter. It is firmly believed that with proper care in effecting

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installation and adjustment the use of newer equipment at Skuvanes Head should result in reducing much of the Loran interference reported in your country.

The technical publications of which you make mention in your letter apply specifically to equipment which is now already installed at Skuvanes Head or will be installed in the future. In any event, each instruction book or modification instruction clearly indicates to what model equipment it pertains. The overall information contained in all of the technical publications furnished you should serve as a guide in the proper installation and maintenance of the Skuvanes Head station when it is administered by your Service.

I hope this information will answer the questions you had in mind and we are happy to be of assistance. Be free to call upon us for any additional information relating to Loran.

By direction of the Commandant.

Very truly yours,

*Lawrence M. Harding*  
LAWRENCE M. HARDING  
Captain, U.S.C.G.  
Chief, Electronics  
Engineering Division