

COMMANDING OFFICER
USCG LORAN-A TECHNICAL
ASSISTANCE DETAIL
APO SAN FRANCISCO 96528

4950/3260
13 March 1975

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Mr. Frazier Meade
Counselor of Embassy
for Political Affairs
American Embassy
Manila, Republic of the Philippines

Dear Sir:

Comments concerning Annexes A and B of the Government of the Republic of the Philippines request are forwarded herewith as requested.

The data reflected in Annex A contains numerous inaccuracies as to what has been supported in the past, by the U. S. Coast Guard, under the Memorandum of Agreement of October 10, 1970. A revised Annex A, as compiled by this command, is enclosed. The "HANC" (Headquarters, Aids to Navigation Command) column, although not previously supported, is included in that it would be necessary to support the equipment listed if the Philippine Loran-A School, previously established by the U. S. Coast Guard, is to be utilized. The added cost of maintenance as a result of this additional equipment is unknown, however, it is not believed that a sizeable increase in operating funds would be necessary.

I would like to point out that the voltage regulators, switching units, and battery chargers are integral parts of the loran network and as a result are supported without considering them separately.

In lieu of Annex A, attached, recommend renewal of Annex C to the 1970 agreement which more accurately describes the support being given. A copy of Annex C is attached. In addition, support of the Loran-A school equipment could be an additional item considered.

I note further that support for specific testing and calibration equipment as well as loran antennas were included under the 1970 agreement.

Although the U. S. Coast Guard has only supported one radio transceiver on each station (CRM-SSB-1-MK-II-A), some stations have additional radios obtained from other sources. It has not been necessary to support these additional transceivers. The SSB at Headquarters, Aids to Navigation Command, although not covered under the 1970 agreement, has been necessarily supported.

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In reference to Annex B of the Philippine Government request, information concerning the individual items is attached. Estimated costs indicated may appear high, however this is based upon experience to date in the Philippine Loran chain.

It must be further kept in mind that even with the U. S. Coast Guard providing parts and technical expertise, expeditious necessary logistics is required. This has not been the case to date.

Additionally, a listing of specific electronic equipment supported is attached for your information.

Sincerely,

L. J. BLACK, JR.
Lieutenant Commander
Commanding Officer

Encl:

- (1) USCG-Revised Annex A
- (2) Annex C, RP/US Memorandum of Agreement of 10 OCT 70
- (3) USCG LORTAD (FOUO) Comments, GOP Annex B
- (4) USCG Supported Electronic Equipment

Blind copy to:
CCGD14(dcs)

USCG-REVISED
ANNEX A

	BATAAN	CATANDUANES	NAULO POINT	TALAMPULAN	TARUPITAO	HANC
LORAN TIMER SET	4	2	2	4	2	1
LORAN TRANSMITTER SET	2	2	2	2	2	1
SSB RADIO TRANSCIEVER SET	1	1	1	1	1	1
VOLTAGE REGULATOR	8	6	6	8	8	1
SWITCHING UNIT, LORAN	2	2	2	2	2	1
BATTERY CHARGER	3	3	3	5	4	0

ENCLOSURE (1)

ANNEX C

As stated in paragraph V (B) of this Agreement, the following equipment, which will be located in the five Loran Stations at the time of transfer of command, control and operation to the Government of the Republic of the Philippines, will be supported with spare parts and/or replacements, as necessary, until December 31, 1974:

1. Loran-A transmitting equipment ✓
2. Testing and calibration equipment ✓
for Loran-A transmitting equipment.
3. Loran-A transmitting antennas. ✓
4. Power generating equipment for ✓
Loran-A transmitting equipment.
5. Single side band voice transmitting ✓
and receiving equipment.

ENCLOSURE (2)

U. S. COAST GUARD LORTAD COMMENTS
ANNEX B

Item 1. Vehicle, truck 3/4 ton. Presently, vehicles are necessary at Philippine Coast Guard Loran Stations Talampulan and Batan. They are necessary for transportation of fuel, supplies and personnel. These stations refuel by fifty-five gallon oil drums utilizing the station vehicle to transport them from the refueling ship to the station. At Batan it is a forty-five minute trip and at Talampulan it is approximately one mile or a twenty minute trip but over extremely hazardous road and terrain. Batan could utilize any type vehicle with a carrying capacity, however, Talampulan requires a vehicle that provides sufficient clearance between the road and the underbody of the vehicle due to the condition of the road. Previously, when stations were under U. S. Coast Guard control, refueling was conducted by tanker truck at Batan and directly by ship at Talampulan.

The estimated initial cost necessary to place these two vehicles in satisfactory operating condition, considering their location and requirements placed upon them, is \$1500, followed by an annual cost of \$300 each. All other vehicles on the loran stations are not considered necessary to the loran operation. Naulo Point does transport supplies by vehicle from Manila, however, it is believed that Headquarters, Aids to Navigation Command would utilize its vehicles, should Naulo Point's become inoperative. Also Naulo Point is near repair facilities and it is not expected that this vehicle need be supported.

Items 2, 3, 4, 5 & 19. Miscellaneous Boats and Motors. The boats and motors listed in Annex B are not considered necessary to station loran operation. Hiring of boats is more economical than purchase and maintenance of small boats by stations. Personnel are not technically qualified to repair boat motors and parts are hard to obtain. At Loran Station Catanduanes four new outboard motors have been operated to a point beyond economical repair. Outboard motors at this station have had an expected life of approximately three months.

Items 6 & 7. Reefers (Freezers and Chill Boxes). Stations do not utilize chill boxes due to lack of a need. Freezers are used, although one at Loran Station Catanduanes is rented out to local fishermen. There is no refrigeration specialist assigned to the Loran-A Technical Assistance Detail, Manila. Considering that the compressors are repairable, it is estimated that it would take an initial investment of \$600 per freezer (recommending no more than one freezer per station) and \$400 per freezer annually to keep them operating

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ENCLOSURE (3)

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satisfactorily. These costs include necessary freon. It is again emphasized that high cost estimates are due in part to expected lack of preventive maintenance by station personnel.

Item 8. Pump, fresh water. Fresh water pumps are necessary to station operation. These pumps have been replaced or repaired by the Loran-A Technical Assistance Detail in the past. They are not routinely checked but normally corrected after they become inoperative. In order to provide adequate spares and replacement pumps, an initial investment of approximately \$3000 would be necessary followed by an annual cost of \$1000. One problem encountered with water pumps is a lack of concern by station personnel as to the proper operation. At Loran Station Tarumpitao there are presently approximately seventy men and some dependents utilizing the facilities. This is due partly to the Philippine Air Force unit present and the Philippine Navy augmentation force. This station was not designed to accommodate or support this number of people. In that water hours have not yet been instituted, this command has recommended to Headquarters, Aids to Navigation Command that it be done.

Item 9. Dehumidifier. Dehumidifiers are necessary to station operation. One dehumidifier at each station is utilized in the spare parts room to protect parts from dampness. They are presently being supported by the Loran-A Technical Assistance Detail, Manila. The annual cost is approximately \$300.

Item 10. Compressor. Air compressors are necessary for cleaning of generating equipment and for providing air for tires of station vehicles, which is necessary routinely, as well as other miscellaneous station functions. One compressor should be replaced in the near future and possibly others within the next year or two. Replacement compressors would not be the same type as the original and are estimated at \$200 each.

Items 11 & 12. Mower (small power and tractor driven). The tractor driven mower at Loran Station Tarumpitao is presently inoperative, however, approximately \$800 worth of spare parts are being ordered to repair it. Its operation is considered necessary in order to keep the airstrip clear. Due to the height of grass during the rainy season, a danger exists when landing and taking off. This is the only tractor driven mower considered necessary. All stations should have small power lawn mowers in order to keep the area around the station free of snakes. The estimated initial cost of five mowers is \$1000. Anti-cobra venom is presently supplied by the Loran-A Technical Assistance Detail to the Loran stations. On a number of occasions cobras have

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been killed within and around the station buildings. Two, in particular, were killed on the mess deck, at Tarumpitao, in the presence of Loran-A Technical Assistance Detail personnel.

Items 13, 14, 17 & 18. Water Cooler, Water Heater, Electric Range and Icemaker. Although these items are considered an extra convenience by Philippine Government standards, they are considered a necessity by U. S. Coast Guard standards. The above, coupled with the fact that Loran-A Technical Assistance Detail personnel spend approximately one-third of their time on the road, makes it desirable that these items be supported as funds permit. Insofar as replacement equipment, the electric range, water cooler, and water heater, would be desired.

Items 15 & 16. Washing Machine and Dryer. Not considered necessary to operation.

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LIST OF EQUIPMENTS FOR ELECTRONIC PARTS AND TUBE ALLOWANCES
COAST GUARD LORAN STATION CATANDUANES
BASIN LORSTA CATANDUANES REVISED DTD 10 NOV. 1970
UNIT CODE 14-40150

<u>EQUIPMENT</u> <u>MODEL OR TYPE</u>	<u>NO. EQUIP.</u> <u>INSTALLED</u>	<u>EQUIPMENT</u> <u>MODEL OR TYPE</u>	<u>NO. EQUIP.</u> <u>INSTALLED</u>
49545	2	CRM-SBA-1000	1
AN/EPA-2	1	CRM-SSB-1-MKII	1
AN/FPN-30	2	#CRV-WV-98C (C.V.V.V. 98A)	1
#AN/PRC-59	2	CU-815/U	1
#AN/PSM-2A	1	GCE-RWL-1403B	1
AN/SRT-21	1	GCE-T-137-A	1
#AN/URM-25D	1	IM-105/U	1
AN/URR-44	2	KY-292/URN	1
#AN/USM-116	2	#LM-21	1
#AN/USM-117C	1	R-649/UR	1
#AN/USM-162	4	T-325/FPN	1
#AN/USM-74A	1	#TS-2174/U	1
#CDU-256-D	2	#TS-382F/U	1
CHC-HQ-180-AYR	1	TV-10B/U	1
CRM-AAT-1000A	1	#ZM-11/U	1

NOTE:

1. Only those equipments for which an APL/SNIT has been prepared will appear on the ERPAL. Reference part VI of CG-322.
2. #Only tubes, semi-conductors, fuses and lamps to be included for these test equipments. All other test equipments parts now aboard should be retained until expended.

THE FOLLOWING EQUIPMENT ARE NOT SUPPORTED ON THE ERPAL

66047
 AN/PDR-27F
 AT-1018/EPA-13
 CANY-43
 CCEM-226-5
 CCLX-VRA-6
 CGG-NPN-6012A
 CU-464A/UR
 CWJ-125 FT TOWER
 CW-35044-B
 CM-35044-B-1
 F-632/U
 SB-432/U

all with checks are not supported by the Agreement

ENCLOSURE (4)

TALAMPULAN

LIST OF EQUIPMENTS FOR ELECTRONIC PARTS AND TUBE ALLOWANCES U.S. COAST GUARD LORAN STATION TALAMPULAN ON LORSTA TALAMPULAN REVISED DTD 10 NOV. 1970 UNIT CODE 14-40172

EQUIPMENT MODEL OR TYPE	NO. EQUIP. INSTALLED	EQUIPMENT MODEL OR TYPE	NO. EQUIP. INSTALLED
AN/FPA-2(AN/FPA-2A)	1	CRM-ASP-1000A	1
AN/FPN-30	4	CRM-SBA-1000	1
AN/PRC-59	3	CRM-SSB-1-MKII-A	1
#AN/PSM-2A	1	CU-815/U	1
AN/SRT-21	1	GCF-RWL-1403A	1
#AN/URM-25D	1	IM-105/U	1
#AN/USM-116	1	KY-292A/URN	1
#AN/USM-117C	1	#LM-15	1
#AN/USM-162	4	R-649/UR	1
#CDU-256-D	2	#TS-2174/U	1
CHC-BV-180 AXR	1	#TS-382F/U	1
CN-239/FPN	1	#TV-10B/U	1
CRM-WV-78C (CRM-WV-78A)	1	#ZM-11/U	1
CHL-SX-130	2	T-325A/FPN	2

NOTE:

1. Only those equipments for which an APL/SNIT has been prepared will appear on the ERPAL. Reference part VI of CG-322.
2. #Only tubes, semi-conductors, fuses and lamps to be included for these test equipments. All other test equipments parts now aboard should be retained until expended.

THE FOLLOWING EQUIPMENT ARE NOT SUPPORTED ON THE ERPAL

#60086 ✓
 66047 ✓
 CW-35044-R-1 ✓
 AN/FPA-3-XN-1 ✓
 AN/PDR-27 ✓
 AT-1018/FPA-13 ✓
 CAJF-926-C ✓
 CANY-43 ✓
 CCLX-VRA-6 ✓
 CGG-NPN-6012A ✓
 CHL-SX-130 ✓
 CRM-WV-986 (CRM-WV-98A) ✓
 CU-464A/UR ✓
 CWJ-815/U ✓
 GCF-WT-190-A ✓
 GCF-W-420 ✓
 O-202/FPN-30(P/OAN/FPN-30) ✓
 TS-830/U ✓

All with checks are not supported by the agreement

LIST OF EQUIPMENTS AND ELECTRONIC PARTS AND TUBE ALLOWANCE

U.S. COAST GUARD LORAN STATION NAULO POINT

BASED ON USCG LORSTA NAULO POINT'S REVISED LTR DTD. 10, NOV. 1970

UNIT CODE: 14-40164

<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>	<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>
AN/FPA-2	1	CU-815/U	1
AN/FPN-30	2	GCF-RWL-1403B	1
AN/PRC-59 ✓	3	HQ-180-AXR (CHC) ✓	1
AN/PSM-2A ✓	2	IM-105	1
AN/SRT-21 ✓	1	KY-292A/URN ✓	1
AN/URM-25D ✓	1	R-649/UR ✓	1
AN/USM-117C ✓	1	CHL-SX-130 ✓	1
AN/USM-162 ✓	4	T-325A/FPN ✓	2
CDU-256-D	2	TS-2174/U ✓	1
CN-239/FPN	1	TS-382F/U ✓	1
CRM-AAT-1000A	1	TV-10B/U ✓	1
CRM-SBA-1000	1	ZM-11A/U ✓	1
CRM-SSB-1-MKIIA	1		
CRV-WV-98C ✓	1		

NOTE:

1. ONLY those equipments for which an APL/SNIT has been prepared will appear on the ERPAL/COSAL. See CG-322, Part VI.

THE FOLLOWING EQUIPMENTS ARE NOT SUPPORTED ON THE ERPAL

AN/PDR-27F ✓	CW-35044-B-1
AT-1018/FPA-13 ✓	CWJ-129 FT. TOWER
CGG-NPN-6012A ✓	TS-870/U ✓
CSF-T05 ✓	WHIP-ANT-24 -
CU-464/UR-1 ✓	WHIP-ANT-36

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LIST OF EQUIPMENTS AND ELECTRONIC PARTS AND TUBE ALLOWANCE

U.S. COAST GUARD LORAN STATION BATAN ISLAND

BASED ON USCG LORSTA BATAN ISLAND'S REVISED LTR. DTD. 10, NOV. 1970

UNIT CODE: 14-40149

<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>	<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>
60086	1	CRM-SRA-1000	1
AN/FPA-2	1	CRM-SSB-1-MKIIA	1
AN/FPN-30	4	CU-815/U	1
AN/PRC-59	3	GCE-RWL-1403B	1
AN/PSM-2A	1	IM-105/U	1
AN/SRT-21	1	KY-292A/URN	1
AN/URM-25D	1	LM-21	1
AN/USM-116	1	O-202/FPN-30 (p/o FPN-30)	1
AN/USM-117C	1	R-649/UR	1
CDU-256-D	2	T-325/FPN	2
CNC-HQ-180-AXR	1	TS-2174/U	1
CHL-SX-130	1	TS-382F/U	1
CRM-AAT-1000A	1	TV-10B/U	1
		ZM-11/U	1

NOTE:

1. ONLY those equipments for which an APL/SNIT has been prepared will appear on the ERPAL/COSAL. See CG-322, Part VI.

THE FOLLOWING EQUIPMENTS ARE NOT SUPPORTED ON THE ERPAL

AN/PDR-272	CU-464/UR
AT-1018/FPA-13	CWJ-125FT. TOWER
CAWY-43	F-632/U
CCLX-VRA-6	ME-190/U
CCZC-RE-1210	MX-1258/U
CGG-NPN-6012A	TS-830/U
CRV-MI-19197	

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LIST OF EQUIPMENTS AND ELECTRONIC PARTS AND TUBE ALLOWANCE

U.S. COAST GUARD LORAN STATION TARUMPITAO

BASED ON USCG LORSTA TARUMPITAO'S REVISED LTR. DTD. 10 NOV. 1970

UNIT CODE: 14-40173

<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>	<u>EQUIPMENT MODEL OR TYPE</u>	<u>NO. EQUIP. INSTALLED</u>
60086	2	CN-230/FPN	2
AN/FPA-2	1	CRM-AAT-1000A	1
AN/FPA-3B	1	CRM-SBA-1000	1
AN/FPN-30	2	CRM-SSB-1-MKII-A	1
AN/PRC-59	3	CRV-MW-98C	1
AN/PSM-2A	1	CU-815/U	1
AN/SRT-21	1	GCE-RWL-1403A	1
AN/URN-25D	1	IM-105/U	1
AN/USM-116	1	LM-18	1
AN/USM-117C	1	Q-202/FPN-30 (p/o AN/FPN-30)	1
AN/USM-162	4	R-459/UR	1
CDU-256-D	2	R-649A/UR (R-649/U) ✓	1
CHC-HQ-180-AXR ✓	1	T-325A/FPN	2
CHL-3X-130 ✓	2	TS-382F/U ✓	1
CN-235/FPN-30 (p/o AN/FPN-30)	1	TV-10B/U ✓	1
		ZM-11/U ✓	1

NOTE:

1. ONLY those equipments for which an APL/SNIT has been prepared will appear on the ERPAL/COSAL. See CG-322, Part VI.

THE FOLLOWING EQUIPMENTS ARE NOT SUPPORTED ON THE ERPAL

35044	CGG-NPN-6012A ✓
66047	CU-464A/UR ✓
35044-B-1	CUJ-129-FT-TOWER
AN/PDR-27F ✓	F-632/U
AT-1018/FPA-13	MX-1258/U ✓
CANY-43	TS-830/U ✓
CBGS-CLS-1019 ✓	
COLX-VRA-6 ✓	

All with check are not supported by the Agreement