DESCRIPTION FOR THE RELOCATION OF SPINOR CAPE, CODESS LOBAR-A STREET TO

shandward and the services provided by it will be farmished from an alternate city. Compatible LORDS-A coverage in the Calf of Alaska vill.

Description of Vait or Project

OAN

L. The LORAN-A Transmitting Station Sprace Gaps, Restan 3 1: JAN 1963, to

Commandant
Commander, Seventeenth Coast Guard District To:

Relocation of Spruce Cape LORAN-A Station to Sitkinak LORAN-C Station Subja

Ref: (a) Coast Guard Loran Planning Study, 1960

1. The Coast Guard Planning Study 1960 showed how it was possible to so control the Loran program that the maximum number of Loran stations could be kept to a minimum and still provide the necessary navigational coverage. It recommended that wherever possible LORAN-A and C stations be integrated into one unit in order to effect savings in personnel and operating expenses. Such collocations were to be accomplished as replacement of existing stations became necessary due to new requirements, modernization programs, or destruction of stations by natural forces.

- 2. All existing LORAN-A stations were examined to see if they could meet these criteria, wholly or in part. Due to your Operational Planning Proposal, Ser: 17-52-14 dated 31 January 1962, the collocation of Spruce Cape LORAN-A Station at the Sitkinak LORAN-C Station was approved and is included in the FY 1964 AC&I Budget.
- 3. Enclosed for your information is a copy of the justification for the proposed relocation which contains sufficient guidelines to assist in your planning. It is requested that a complete ACLI project report for the relocation of Spruce Cape LORAN-A Station to Sitkinak LORAN-C Station be prepared and forwarded to Beadquarters.

2. The publication of this station can best be accomplished by relocating

it to the olds of the Sithinsk Limit-C Station, The anvinge in 1821 funds resting and to approximately Suc. con. Cont. J. A. ALGER, JR. to 110001. agriculant testallation are 1750,000 (EELS North, Chief of Stoff NY, In addition

Shel: (1) Justification for the Relocation of Spruce Cape, Kodiak LORAN-A Station to the site of the Sitkinak LORAN-C Station I off and modificant maintenance as Stikingle) (Sudget and Conel malyote

A. A debuilted much break-lows for this ACAI program is attenbad.

Renn 15 December 1901).

JUSTIFICATION FOR THE RELOCATION OF SPEUCE CAPE, KODIAK LORAN-A STATION TO THE SITE OF THE SITKINAK LORAN-C STATION

Description of Unit or Froject

1. The LORAN-A Transmitting Station Spruce Cape, Kediak, Alaska will be abandoned and the services provided by it will be farnished from an alternate site. Compatible LORAN-A coverage in the Gulf of Alaska will be provided by the addition of a LORAN-A rate from the site of the Sitkinak LORAN-C Station to Ocean Cape, Alaska.

2. This project will be accomplished in one phase.

a. Construct additional spaces of approximately 1800 square feet at the LORAN-C Transmitting Station, Sitkinak to house the slectronic equipment. Design to be similar to the LORAN-C power and signal building at Sitkinak

a. Construct additional spaces of approximately 1800 square feet at the LORAN-C Transmitting Station. Sitkinak to house the electronic equipment. Design to be similar to the LORAN-C power and signal building at Sitkinak Island. Procure and install the electronic equipment emprising a single pulsed high powered LORAN-A Station. Construct a standard LORAN-A antenna system. Detailed engineering specifications and costs to be developed.

- b. System accuracy check the new LOBAN-A rate in accordance with CG-281.
- c. Disestablish LORAN-A Transmitting Station, Spruce Cape, Kediak, Alaska.

Justification of the Project

- 1. The Spruce Cape, Kodiak LORAN-A Transmitting Station was declared operational in Narch 1952. When constructed economy measure were used and the personnel and equipment were housed in Quonset huts. Within the next few years maintenance will become more difficult and expensive. Present generators are in need of replacement. The present electronic equipment has been operating for ten years and is nearing the end of its useful life. Cost estimates for the rehabilitation of this station have been submitted by Commander, Seventeenth District and are \$350,000 (CCGM7 Operational Flauning Proposal Ser: 17-62-14, dated 31 January 1962.)
- 2. The rehabilitation of this station can best be accomplished by relocating it to the site of the Sitkinak LORAN-C Station. The savings in AC&I funds realized will be approximately \$300,000. Cost estimates for the LORAN-A equipment installation are \$230,000 (SEE-2 Memo, 6 April 1962). In addition the Coast Guard will be implementing one further phase of the U.S.C.G. Loran Planning Study, 1960.
- 3. The relocation of Spruce Cape, Kodiak LORAN-A Station will effect an estimated annual OE savings of approximately \$80,000 (\$96,734 less 2 ET's, 1 GS3 and additional maintenance at Sitkinsk) (Budget and Coast Analysis Hemo 15 December 1961).
- 4. A detailed cost breakdown for this AC&I program is attached.

AGAI PROGRAM PY 1964

Cost Estimate

SHORE STATIONS AND NAVIGATIONAL AIDS

SITKINAK LORAN STATION , ALASKA

Relocation Spruce Cape LORAN-A Station to site of LORAN-C Station-	of Sitkinak	8 569,000
Assumption: Four additional personnel to be how with no added support facilities. capacity. Cost Factor 2.50	No added go	ting quarters serating
Timer Room 350 SF)	CONUS	ALASKA
Equip. Room 750 SF) 1700 SF 8 \$20		\$ 85,000
Added power distribution	15,000 20,000 2,000 5,000 6,000 8,000 4,000 4,000	12,500 37,500 20,000 5,000 12,500 15,000 20,000 7,500 10,000 4,000 197,000 2,000 4,000 15,000 15,000 15,000 60,000
Total Construction Cost		\$531,500
Administrative Expenses:		
Supervisory and Engineering Personnel		- \$ 25,000 - 10,000 - 2,500
Total Administrative Expenses		\$ 37,500
TOTAL PROJECT COST	Bar Regin	2 000 000