UNITED STATES GOVERNMENT

Memorandum

11310
Ser 3471
DATE: 24 MAR 1971

TO : Chief, Civil Engineering Branch

FROM : LeRoy WEST, Chief, E-M Section

SUBJECT: Ocean Cape LORSTA; power supply for

REF : (a) CCGD17 ltr 11310 Ser 8725 dtd 21 August 1967
(b) HQ ltr 11120 Ser 2213 dtd 18 September 1967
(c) CCGD17 ltr 11300 Ser 8939 dtd 30 October 1967 to Mr. Fred O. Miller
(d) Yakutat Power Co. ltr dtd 1 March 1971

1. The cost comparison of commercial power vs CG produced power at Ocean Cape has been reviewed.

2. The price of fuel has increased slightly and the diesel electric sets are also burning more gallons per hour, from actual usage records. A new larger heating boiler was recently installed. The following is a cost comparison of commercial power vs CG produced power:

a. CG Operating Costs:

Average load 58 KW	
Fuel cost F.O.B.	$ 0.207/gal
Labor per annum (4 EN-EN3)	12,000
Lube oil & repair parts per annum	9,000
Major overhaul (every 3 yrs.) per annum	2,000
Fuel consumption 7.4 gals/hr @ 58 KW load (7.4 x 24 x 365 x $0.207= $13,418.56	13,418
Annual Total Operating Costs	$36,418

b. Yakutat Power Co. Costs:

Power rate now filed with Alaska Public Service Commission: (Lower rate may be possible per Mr. Fred O. Miller's letter 1 March 1971)

First 10,000 KWH/mo	$ 0.10/KWH
Next 40,000 KWH/mo	0.05/KWH
All over 50,000 KWH/mo	0.045/KWH

Subj: Ocean Cape LORSTA; power supply for

LORSTA averages 42,000 KWH/mo presently.

10,000 KWH @ $0.10	$ 1,000
32,000 KWH @ 0.05	1,600
	2,600
	x 12
	5200
	2600
Commercial Power Annual Costs	$31,200

c. Grant-in-aid-to-Construction (Power line to station)

New estimate 1 March 1971 $32,000

Refund to CG for loan of 10% of the monthly billing, until the entire loan is refunded. $ 2,600/mo

- 260

Average Monthly Expenditure $ 2,340/mo

At the 10% rate our loan would be refunded in 10 years 4 months.

d. Savings:

CG operating annual costs	$36,418
Commercial power annual costs	31,200
Annual Savings	$ 5,218

(NOTE: Does not consider Interest ($1,600/yr) on the $32,000 nor does it consider reduced logistic cost.)

3. A personnel reduction of two EN or FN type could be made, because watchstanders for engine room would not be required. Station personnel at Ocean Cape is now 13 and could be reduced to 11, similar to that assigned to Spruce Cape LORSTA which is on commercial power.

4. I therefore recommend that Ocean Cape LORSTA be connected into the Yakutat Power Co. commercial power lines. All three installed generators will have a major overhaul as scheduled and will remain as standby generators.

5. Negotiations by Contracting Officer and Yakutat Power Co. could begin at any time. A firm utility contract should be effected. This utility contract, because of the $32,000 "Grant-in-aid-to Construction" would have to be approved by Commandant (F).

Subj: Ocean Cape LORSTA; power supply for

6. A StructAlt could be prepared and forwarded to HQ if desired. This would allow HQ to comment regarding the forseeable phasing out of "A" LORSTA.

LEROY WEST
Chief, E-M Section

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Operations Division DATE: 29 March 1971

FROM : Chief, Engineering Division

SUBJECT: Conversion of Ocean Cape LORSTA to commercial power; comments concerning

REF : (a) Chief (ecv) E-M Section technical review dtd 24 Mar 71

1. For the past several years the Coast Guard has negotiated with the owner of the Yakutat Power Co. concerning possible conversion of that station to commercial power. Results of recent contracts with that company are summarized in the attached memo, reference (a).

2. The cost estimate for conversion shown does not include the installation of the necessary switchgear which would add about $1,000 - $1,500 to the initial cost. Also, it may not prove possible to reduce the complement by two men as assumed because of other watch standing requirements although certainly the current EN3 billet could be eliminated if not both the EN3 and FN billets.

3. Conversion of the station to commercial power in early FY72 is recommeded for the following reasons:

a. Some direct dollar savings in annual operating costs should be realized. The estimated amount will depend upon the number of billets disestablished.

b. Conversion would eliminate one and possibly two isolated duty billets.

c. Conversion would increase the useful life of the existing generators and reasonably assure that their replacement would not be required before phase out of the LORAN A system.

d. Conversion will provide adequate power if the station is later converted to a family station with modular home type quarters.

4. Your comments regarding this proposed change are requested, particularly regarding the number of billets that could be vacated. FY72 O.E. funds can be programmed for the initial cost and increased annual support subhead (SH-43) costs. A reply by 15 April 71 is desired to permit reflection of this action in our FY72 - 73 budget request.

H. W. PAGEL

Encl: (1) Copy of Ref. (a)
Copy to:
f,p w/encl

DEPT. OF TRANSP., U.S.C.G., CG-3584 (Rev. 2-68) GPO 960-323 CLEARANCE SHEET

Chief, Engineering Division

5/7/71

Chief, Operations Division

Conversion of Ocean Cape LORSTA to commercial power; comments concerning

Ref : (a) Chief (e) memo 29 MAR 71

1. I concur with your proposal to convert OCEAN CAPE to commercial power and to reduce the manning level by one EN3 billet.

2. The Board convened to consider conversion of isolated loran stations to family stations is recommending commercial power conversion for OCEAN CAPE during CY-71.

R. E. EMERSON

LWGARRETT:vj 7 MAY 71 701 367

PREVIOUS EDITIONS MAY BE USED

OFFICE OR DIVISION	oan	o	oan									
INITIALS OF RESPONSIBLE OFFICERS	1 P	2 P/S	3 M/F									
INTRA-OFFICE OR DIVISION INITIALS												
DATE OUT												

MEMO ROUTING SLIP	NEVER USE FOR APPROVALS, DISAPPROVALS, CONCURRENCES, OR SIMILAR ACTIONS		ACTION
1 TO Oan		INITIALS	CIRCULATE
		DATE	COORDINATION
2			FILE
			INFORMATION
3			NOTE AND RETURN
			PER CONVERSATION
4			SEE ME
			SIGNATURE

REMARKS

Strikes me as a good project. Get Ocean Engr's views (whoever more available) and prepare reply to Engineering. If we can't drop two billets the savings would be quite small. Must retain adequate talent on board to provide for operation in event commercial power outage. Not time frame —

RES

RECEIVED
APR - 1 1971
AIDS TO NAVIGATION
17th CG DISTRICT

FROM CAPT R. E. EMERSON, USCG
Chief, Operations Division

DATE 3/31

PHONE

DD FORM 1 OCT 60 95 — REPLACES DD FORM 94, 1 FEB 50 AND DD FORM 95, 1 FEB 50 WHICH WILL BE USED UNTIL EXHAUSTED.

0102 000 6500

☆ U.S. GOVERNMENT PRINTING OFFICE: 1969-393-706/S-82