

11010
NOV 18 1965
Serial: 22577

From: Commander, Fourteenth Coast Guard District
To: Commandant (GAS)

Subj: French Frigate Shoals Loran Station

Ref: (a) COMDT(GAS) ltr of 17 April 1963

1. Reference (a) reported that the JCS requirement for French Frigate Shoals Loran Station would run through 1968. Accordingly, rehabilitation work on that station has been limited to that absolutely necessary for current and near future requirements.
2. The disestablishment of Holokai Loran Station makes it imperative that French Frigate Shoals remain active as long as the requirement for Loran-A continues to exist in the Hawaiian Islands. Under the circumstances, and unless otherwise directed, the planning for French Frigate Shoals shall be revised to put this station on a par with the others within the District and in accord with Commandant's standards for barracks and living spaces. It is anticipated that complete rebuilding of the station, less the Loran signal power building will be required. The project will be included in the District engineering backlog for accomplishment in Fiscal 1967.
3. Commandant's concurrence is requested.

T. F. EPLEY
Chief of Staff

3262

DEC 29 1965

From: Commandant
To: Commander, Fourteenth Coast Guard District
Subj: French Frigate Shoals Loran Station Rehabilitation
Ref: (a) CCGD14 ltr 11010 serial 32597 dtd 16 Nov 1965

1. Reference (a) requests Commandant's concurrence for rehabilitation work on French Frigate.
2. The JCS LORAN requirements are currently being updated and are due for release in the near future. It is believed that the DOD LORAN-A requirements will be outlined in considerable detail.
3. While military requirements for LORAN-A coverage of the Hawaiian Islands area may not be the sole reason why such coverage should continue to be provided in the future, it is considered necessary to withhold concurrence in rehabilitation of French Frigate temporarily until the JCS review has been completed.

S
B. R. RYAN
By direction

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| CAN | EEE | ECV |
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EGWalters:way 17 Dec 1965

NOV 25 1965 OAN

78

(OAN)

5450

20 FEB 1966

From: Commandant
 To: Commander, Fourteenth Coast Guard District
 Subj: Logistic Support of French Frigate Shoals
 Ref: (a) Commandant Notice 5010 dtd 26 October 1965

1. Reference (a) envisions an allowance of 3 LRS and 3 MRR aircraft at Coast Guard Air Station Barber's Point. This may create a problem in logistics support of French Frigate Shoals by aircraft because of runway facilities there.
2. Some possible ways to meet these logistics requirements are:
 - a. Use planned allowance of C-130 aircraft and existing runway.
 - b. Use planned allowance of C-130 aircraft into improved airstrip.
 - c. Add one HU-16E or C-123B to the planned aircraft allowance for use on existing runway.
 - d. Contract for air logistics.
 - e. Use surface vessels for logistics support and C-130's for emergencies only
3. Your recommendations are requested after analysing the problem on a cost vs requirement basis. The following cost figures may be of value:

| | |
|---|------------|
| a. Annual OE per HU-16E | \$ 235,028 |
| b. Annual OE per C-123B | 197,480 |
| c. Estimated direct cost per flight hour for logistics support by an assigned HC-130E ; | 154 |

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B. F. ENGEL
 Acting Chief, Office of Operations



TREASURY DEPARTMENT
UNITED STATES COAST GUARD

Address reply to:
COMMANDER (o)
14TH COAST GUARD DISTRICT
1347 KAPIOLANI BLVD.
HONOLULU, HAWAII 96814

11010
AUG 3 1966
Serial: 32304

U. S. COAST GUARD

SEP 7 1966

OPERATIONS-SHORE UNITS

From: Commander, Fourteenth Coast Guard District
To: Commandant (O) **MAIL**

Subj: French Frigate Shoals rehabilitation

Ref: (a) COMDT(OAN) ltr 3262 of 29 Dec 1965
(b) COMDT(OAU) ltr 5450 of 24 Feb 1966

1. Reference (a) withheld Commandant's concurrence in the proposed major rehabilitation of French Frigate Shoals Loran Station pending updating of JCS loran requirements. Reference (b) pointed out that aircraft to be provided in the future might not be suitable for support of that station. The 3,300 foot runway at the station is not suitable for operation of the programmed aircraft (HC-130B). Extension of the runway to 4,000 feet will cost an estimated two million dollars.

2. Living conditions at French Frigate Shoals are among the worst of any station in this District. The CO and CPO's have relocated into trailers abandoned by the AEC several years ago and they have the only decent quarters on Tern Island. Maintenance of the station is rapidly increasing in cost and difficulty. The lead time required to fund a project of this scope requires that we start now.

3. It is again stated that there exists a firm requirement for the continued use of French Frigate Shoals Loran Station, not only within the Department of Defense, but also in the non-defense community. The disestablishment of Molokai Loran Station has resulted in a configuration completely dependent on French Frigate Shoals for any Loran-A fix coverage in the Hawaiian Islands. Commercial aircraft and maritime commerce in the area is of sufficient magnitude to guarantee a firm requirement for Loran-A coverage for many years to come.

4. Commandant's concurrence is requested in the complete rehabilitation of the loran station including replacement of all buildings except the concrete signal/power building and extension of the runway to 4,000 feet minimum.

E. P. CHESTER, JR.
Chief of Staff



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1540

1946/5

UNITED STATES GOVERNMENT

Memorandum

RCVD AUG 11 1966 OAN

1208

TO : Chief, Aids to Navigation Division

OAU
DATE: 9 August

FROM : Chief, Aviation Units Division

SUBJECT: French Frigate Shoals Rehabilitation

Ref: (a) CCGD 14 ltr Ser 32304 of 3 August 1966

1. The following comments on reference (a) are forwarded for consideration:
 - a. This division concurs in the need to improve the French Frigate Shoals runway.
 - b. This division will examine runway extension requirements more fully and advise you so that firm planning can be undertaken.

C. A. Richmond, Jr.
C. A. RICHMOND, JR.

| ACT | INFO | OAN | DIVISION |
|-----|------|----------|--------------------|
| | 4 | CHIEF | <i>[Signature]</i> |
| | 3 | ASST | <i>[Signature]</i> |
| | | PLAN | |
| | | A & V | |
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| | 5-1 | SEEC 1 | <i>[Signature]</i> |
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| | | SEEC 3 | |
| | | DIR | |
| | | ADM | |
| | | TRAINING | |
| | | ALL | |



UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Shore Units Division

OAN -3
DATE: AUG 17 1966

FROM : Chief, Aids to Navigation Division

U. S. COAST GUARD

SUBJECT: French Frigate Shoals Rehabilitation

AUG 18 1966

REF : (a) CCGD14 1tr 11010 dated 3 Aug 1966 serial 32304
(b) Comdt (OAU) 1tr 5450 dated 24 Feb 1966
(c) Comdt (OAN) 1tr 3262 dated 29 Dec 1966
(d) CCGD14 1tr 11010 dated 16 Nov 1965 serial 32597

OPERATIONS-SHORE UNITS

1. The following comments on reference (a) are forwarded for your consideration:

a. Current DOD requirements, plus the commercial requirements, indicates a need for a Loran-A station at French Frigate for many years to come.

b. This division concurs in the need to rehabilitate French Frigate.

W.R. Fearn
W. R. FEARN
Acting

15 year new logs.



1884/5



TREASURY DEPARTMENT
UNITED STATES COAST GUARD

1407 RCVD SEP 26 1966 OAN 7-3 7-8

Address reply to:
COMMANDER (O)
14TH COAST GUARD DISTRICT
1347 KAPIOLANI BLVD.
HONOLULU, HAWAII 96814

11010
SEP 19 1966
Serial: 32391

From: Commander, Fourteenth Coast Guard District
To: Commandant (O) ← MAIL

Subj: French Frigate Shoals rehabilitation

Ref: (a) CCGD14 ltr 11010 ser 32304 of 3 Aug 1966

1. The Commandant's concurrence concerning the future of French Frigate Shoals as stated in reference (a) is again requested.

E. P. CHESTER, JR.
Chief of Staff

U. S. COAST GUARD

SEP 26 1966

OPERATIONS-SHORE UNITS

| ACT | INFO | OAN | DIVISION |
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| | 5 | CHIEF | |
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2013/5

UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Office of Operations

ECV-2
11010

DATE: 23 SEP 1966

FROM : Chief, Office of Engineering

Ser 2612

SUBJECT: French Frigate Shoals Loran Station; rehabilitation

1. It is believed that the approval contained in the enclosure may be premature in that it would commit the Commandant to finance any and all costs for a complete rehabilitation of French Frigate Island without knowing what total cost is involved. Complete rehabilitation of all facilities on the Island except the Signal-Power Building, but including the extension of the runway into the open ocean for a distance of 700 feet into up to a 20 ft. depth of water is estimated to cost in the neighborhood of 10 million dollars.

2. It is recommended that the operational requirement be judged in comparison with a factual breakdown of total costs involved for the proposed rehabilitation before full acceptance. In line with such recommendation, reply should admit the operational requirement for the station but solicit a complete plan with costs of each item proposed to be budgeted over several years as may be practical and necessary. While some attempt has been made to investigate alternate means of keeping an operating station at French Frigate at a reasonable cost, it is believed that further study is in order along this line.

3. There is no question that considerable improvements are needed at French Frigate but a more cautious approach is recommended wherein a realistic appraisal of estimated costs is examined before fully committing the Commandant to an extremely expensive over-all project.


JOHN B. OREN

Encl: (1) Proposed reply drafted 9-9-66 to CCGDFOURTEEN ltr 11010
of 3 August 1966, Ser. 32304 (with background correspondence)





TREASURY DEPARTMENT
UNITED STATES COAST GUARD

Address reply to:
COMMANDANT (OSU)
U.S. COAST GUARD
WASHINGTON, D.C. 20226

5443/14

Serial

From: Commandant
To : Commander, Fourteenth Coast Guard District(o)
Subj: French Frigate Shoals LORSTA rehabilitation; information concerning
Ref : (a) CCGD14 (o) ltr 11010 Serial 32304 of 3 Aug 1966
(b) CCGD14 (o) ltr 11010 Serial 32391 of 19 Sept 1966

1. In reply to references (a) and (b), it is concurred that an operational requirement for the subject station will continue for a minimum of fifteen years.
2. There is no question that considerable improvements are needed; notwithstanding this fact, however, the complete rehabilitation of all facilities on the Island except the Signal-Power Building, but including the extension of the runway into the open ocean for a distance of 700 feet into and up to 20 feet depth of water is estimated to cost in the neighborhood of 10 million dollars.
3. This extremely expensive cost estimate for the over-all project dictates that all alternate means for maintaining an operating station on French Frigate Shoals at a reasonable cost be exhausted. In this reality, a Unit Development Plan should be furnished the Commandant recommending a phased funding schedule over a period of several years and including cost estimates of each item proposed.

F. V. HELMER
Chief, Office of Operations



UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Office of Operations

OAU
DATE: 12 October 1966
5450/14th

FROM : Chief, Aviation Units Division

SUBJECT: French Frigate Shoals Rehabilitation, comments concerning

1. Subject correspondence is forwarded without initialling.
2. This division felt that the ten million (\$10 M) price tag needed clarification and asked ECV for an informal breakdown on the cost. Enclosure (1) is their reply. Enclosure (2) enclosed with CCGD14 letter of 5 May 1966, gives that district's estimate of the cost for runway improvements. Although the two estimates for runway construction may not be directly comparable the fact is that they differ by more than 100% (Headquarters being the higher).
3. The proposed reply to CCGD14 would, based on price estimates alone, seem to kill this project for the foreseeable future. This is clearly not the intent of Operations.
4. Enclosure (3) is submitted with the suggestion that it (or the thought contained therein) be sent to CCGD14 in lieu of the proposed reply.


C. A. RICHMOND, JR.

Encl: (1) ECV cost breakdown
(2) CCGD14 cost estimate for runway cost
(3) Suggested reply to CCGD14



Encl(1)

Items reqd. to completely rehabilitate
French Frigate Shoals Loran Station.

1. Extend runway by 700 ft. to east: $\$4,488,000$

a. 1750 lin. ft. of coated steel
sheet piling installed with tie-back
system @ $\$250$. = $437,500$

b. 100,000 cubic yards of dredged
coral fill deposited inside
piling @ $\$10$ = $1,000,000$

c. 19,500 sq. yds. of $2\frac{1}{2}$ "
bituminous paving @ $\$3$ = $58,500$

Cost in average stateside location $\$96,000$

Constn. Index factor for location 3.0

Cost at F.F.S. = $\$4,488,000$

2. Completely enclose existing island with
replacement steel sheet piling bulkhead: $\$5,250,000$

a. 7,000 lin. ft. of steel sheet
piling bulkhead driven just outside
existing deteriorated bulkhead & tiebacks
@ $\$250$ = $1,750,000$

Constn. Cost factor at site = 3.0

Cost at F.F.S. = $\$5,250,000$

3. Pave existing 3000 ft. x 250 ft. runway: \$ 624,000
 a. 83,000 sq. yds. 2½" bituminous paving (with seal coat) @ \$2.50 = \$208,000
 Constn. Index Factor 3.0
 \$ 624,000

4. Replace Signal - Power Bldg.: \$ 300,000
 a. New 40' x 100' bldg. @ \$25 = \$100,000
 Constn. Index Factor 3.0
 \$ 300,000

5. Replace Recreation Bldg.: \$ 192,000
 a. New 40' x 80' bldg. @ \$20 = \$64,000
 Constn. Index Factor 3.0
 \$ 192,000

6. Rehabilitate Galley - Mess - Barracks Bldg. to comply with current standards prescribed by Comdt. DISTRN. 11101.2B: \$ 300,000
 (Replacement may be more satisfactory & desirable)

7. Rehab. Utility Systems including Fresh Water Storage, Fuel Oil Storage, Underground Electrical Distribution Systems, etc.: \$ 200,000

8. Provide more adequate aircraft fuel storage systems \$ 30,000

9. Provide Runway Maintenance Equipment \$ 30,000

10. Demolition of Misc. Structures 20,000

Construction TOTAL \$ 1,434,000

Administrative Expenses ± 5% 500,000

PROJECT TOTAL \$ 1,934,000

Note: Considerable savings may be possible by combining as many items as possible into several large projects thereby reducing contractor mobilization expenses. Furnishing of CG transportation of workmen and materials would also be a further means of reducing the overall costs.

FRS

10/15/66

UNITED STATES GOVERNMENT

Memorandum

Encl 2

ENCL: (1)

TO : Chief, Operations Division

ecv
5450
DATE: 17 March 1966
Serial 93

FROM : Chief, Engineering Division

SUBJECT: French Frigate Shoals Logistic Support

REF : (a) COMDT (OAU) ltr 5450 dtd 24 Feb 66

*ENGAGEMENT
NOT
NECESSARY
FOR CLEARANCE*

1. As requested verbally, the following rough cost estimates are furnished for lengthening and surfacing the airstrip at FFS for logistic support. All figures are based on total width of 300 feet and do not include any costs necessary for enlarging the island to relocate present facilities (buildings, antennas, etc.) which would be required to meet FAA obstruction clearance requirements.

| | | |
|---|--|---------------|
| a. Extend airstrip to 4000 feet (Est \$2,000,000) | | |
| (1) | Fill 15' X 300' X 900' X $\frac{1}{27}$ = 135,000 cy @ \$10 | = \$1,350,000 |
| (2) | Sheet steel piling 2100 L.F. @ \$75 | = 157,500 |
| (3) | 3" A.C. Paving 4000' X 150' @ \$.50 | = 300,000 |
| | Subtotal | \$1,807,500 |
| | Contingency | 180,000 |
| | Total | \$1,987,500 |
| b. Extend airstrip to 6000 feet (Est \$6,500,000) | | |
| (1) | Fill 15' X 300' X 2900' X $\frac{1}{27}$ = 483,000 cy @ \$10 | = \$4,830,000 |
| (2) | Sheet steel piling 6100 L.F. @ \$75 | = 457,000 |
| (3) | 3" A.C. Paving 6000' X 200' @ \$.50 | = 600,000 |
| | Subtotal | \$5,887,000 |
| | Contingency | 589,000 |
| | Total | \$6,476,000 |

2. The above figures on fill are very rough estimates based on the average depth of water shown on our copies of charts. They are conservative, however, and if the unit costs noted remain stable, the job should be able to be done within our cost estimates.

C. F. Scharfenstein
C. F. SCHARFENSTEIN, JR.

Copy to:
CCGD14(fs)

(OSU)

5443/14

Serial

From: Commandant
To : Commander, Fourteenth Coast Guard District(o)
Subj: French Frigate Shoals Loran Station rehabilitation
Ref : (a) CCGD14(o) ltr 32304 of 3 Aug 1966

1. The operational requirement for subject station will continue for a minimum of fifteen years. Planning for necessary rehabilitation of this station should be undertaken in accordance with accepted procedures.
2. Concerning the extension of the existing runway to accommodate support aircraft, dimensions should be 4000 feet by 150 feet.

F. V. HELMER
Chief, Office of Operations

JHMACDONALD:bdh

OSU

7-12

typed 9-9-66

OSU

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OSU
5443/14

10 NOV 1966

See 1184

From: Commandant
To: Commander, 14th Coast Guard District (o)
Subj: French Frigate Shoals LORSTA rehabilitation; information concerning
Ref: (a) CCGD14 (o) ltr 11010 serial 32304 of 3 Aug 1966
 (b) CCGD14 (o) ltr 11010 serial 32391 of 19 Sept 1966

1. In reply to references (a) and (b) it is concurred that an operational requirement for subject station will continue for a minimum of fifteen years. To provide for this requirement a Unit Development Plan should be provided.

2. Since this will be an expensive project you are requested to include the following items in your plans.

a. Cost estimates for several runway lengths between the existing length and 4000 ft. In this connection enlarging of the island solely to meet FAA obstruction clearance requirements is not considered essential. Sufficient lateral clearance should, however, be provided so that C-130's could be operated from the field with the same or better clearances than are now available to the HU-16E's.

b. The practicability and potential savings which would result if Coast Guard transportation of workmen and materials to the site was provided.

c. A phased funding schedule.

15/
 F. V. HELMER
 Chief, Office of Operations

mailed
11/14

| DATE | OSU | OAN | OAU | 0-2 | E | O | | | | | | |
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CONDITIONS MAY BE USED