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ELECTRONICS SECTION
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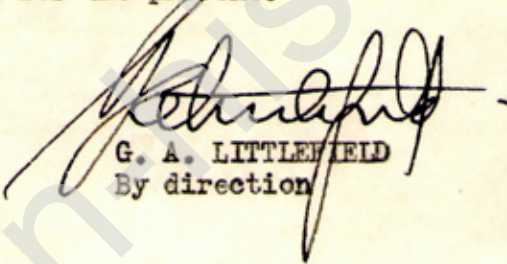
16 December, 1948

File: oan 601

From: Commander, 12th Coast Guard District (oan)
To: Commandant (OSU-OAN)

Subj: Loran Station Operational Data Reports

1. Forwarded.
2. This office feels that the form does present a very adequate and useful description of the operational characteristics and problems of the Loran Station.
3. This station, due to its location, does not present a great problem as far as supplies and maintenance are concerned. The greatest problem at this station is the obtaining of sufficient qualified operating personnel. The present physical plant, while of temporary construction, is considered adequate for the present.


G. A. LITTLEFIELD
By direction

J.S. COAST GUARD
OPERATIONAL DATA REPORT
PART I

24 November, 1948
(date)

1. Reporting Unit: 461, Loran Radio Station, ; 12th Coast Guard District

2. Operations:

(a) Mission, primary (refer OPEAC, Part III, Section A):

- (1) Rate (s): 2H2, 2H3
- (2) Type of station (slave, monitor, etc.): Double Master
- (3) Other stations in chain (list):
 - 2H2 at Point Arguello, Arlight, Calif.
 - 2H3 at Cape Blanco, Sixes, Oregon.

(b) Additional tasks (list any operational or administrative duties performed, or for which the unit is responsible, other than those incident to primary mission, above; indicate amount of work performed under each type of duty listed):

Maintenance of Radio Beacon Equipment at Point Arena Lighthouse Station, and maintenance of Radio equipment at the Point Arena Lifeboat Station.

Approximately 2 man hours/week performed on the above maintenance.

J. S. COAST GUARD
OPERATIONAL DATA REPORT
PART II

24 November. 1948
(date)

1. Reporting Unit: 461, Loran Radio Station ; 12th Coast Guard District
2. Location: Point Arena, California.
 - (a) Place Name: Unit 461, Loran Radio Station.
 - (b) Latitude: 38 Degrees, 55 Min., ; Longitude: 123 degrees, 43 Minutes and
44.1 seconds. 37.4 seconds.
3. Site:
 - (a) Location chart: On inclosure 1, appended, draw in the unit's site and note any other items of special significance to Coast Guard interests in the locality, except those of a higher than "unclassified" security classification.
 - (b) Photos: Obtain; mark "inclosure 2", and append a file of photos of the unit, including, if practicable, an aerial view (oblique) from 1500 feet. (Note: To be augmented as necessary from district files by District Commander reviewing the report. An up-to-date definitive file of photos preferably 8"x10 $\frac{1}{2}$ ", is desired.)
 - (c) Sketch: Prepare; mark "inclosure 3", and append a sketch, 8"x10 $\frac{1}{2}$ ", to some convenient scale, showing boundaries of the site and location of all buildings and other important features. (Note: Name or number buildings in sketch to agree with name or number used in paragraph 4, below.)
 - (d) Status of occupancy of site: (Note: To be filled in by District Commander reviewing the report)
 - (1) Coast Guard-owned (fee simple title)? X
 - (2) " " " (use and occupation title)? _____
 - (3) Leased? _____
 - (4) Occupied on permit? _____
 - (5) Otherwise occupied, as follows: _____
 - (e) Physiography: Prepare, mark "inclosure 4", and append a brief summarized description of the physiography of (1) the local region and (2) the unit's site. Include information as to type of soil, evidence of erosion, amount of vegetation, hills, slopes, elevations, cliffs, beaches, waterways, climate and other important physical characteristics. Clearly indicate any features which have special significance to Coast Guard interests in the locality.
4. Structures (except wharves):
 - (a) Prepare, mark "inclosure 5A", "inclosure 5B", etc., and append a "Structure Form" for each structure (except wharves) on the station. (Note: A sample "Structure Form" is attached.)

461, Loran Radio Station.
(unit)

24 November, 1948
(date)

- (b) Berthing and messing capacity of unit as now equipped: 2 officers;
40 enlisted.
- (c) Maximum berthing and messing capacity of unit, conditional upon provision of additional equipment as listed in "inclosure 6": _____ officers;
_____ enlisted. (prepare, mark "inclosure 6", and append a list of items required by the unit to permit full utilization of available berthing and messing space.)

5. Communications:

(a) Mail:

Unit 461

- (1) Mailing address: Loran Radio Station
Point Arena, California. Box 114
- (2) Normal routing of mail and method of delivery (fill in only if beyond Continental U. S.): _____
- (3) Normal frequency of delivery: Daily.
- (4) Normal time-delay in transit and delivery at the unit of mail from Continental U. S. (fill in only if beyond Continental U. S.): _____

(b) Radio:

- (1) Is voice radio communication equipment installed? No
- (2) Is CW radio communication equipment installed? No

(c) Telephone:

- (1) Number (if connection to commercial exchange): 10F13, Pt. Arena, Calif.
- (2) Other connections to outside points: Light Station and Lifeboat Station at Point Arena, Calif.

(d) Teletype:

- (1) Coast Guard net? None
- (2) Commercial (TWX)? None
- (3) Others (list): None

6. Transportation:

(a) General:

- (1) Indicate normal method of routing freight and passengers to unit:
Freight: Commercial Truck Lines from San Francisco to this Unit.

Passengers: Greyhound Bus line from San Francisco, Calif to Point Arena, Calif.

- (2) Are indicated methods reliable? Yes. Adequate? Yes.
If unreliable or inadequate, indicate why and, if possible, recommend more satisfactory routing:

(b) Air:

(1) Airfields accessible to unit by vehicle or boat:

<u>Name</u>	<u>Location</u>	<u>Distance from Unit</u>	<u>Via Vehicle or Boat (show which)</u>	<u>Type of Service</u>	<u>Airlines Serving</u>
San Francisco Municipal Airport.	South San Francisco, Calif.	150 miles.	Vehicle	All Types.	All Lines.

(2) Seaplane landings accessible to unit by vehicle or boat:

<u>Name</u>	<u>Location of Anchorage or Ramp</u>	<u>Distance from Unit</u>	<u>Via Vehicle or Boat (show which)</u>	<u>Type of Service</u>	<u>Airlines Serving</u>
None.					

(c) Land:

- (1) Highways (cite main roads linking unit with, and distances from unit to, populated centers): California State Highway #1. Approximately 5 miles from Point Arena, Calif.
- (2) Bus lines (cite bus lines linking unit with, and distances from unit to, populated centers): Greyhound Bus Line. Approximately 5 miles from Point Arena, Calif.

(3) Railroads:

(a) Terminals accessible to unit by vehicle or boat:

<u>Name</u>	<u>Location</u>	<u>Distance from Unit</u>	<u>Via Vehicle or Boat (show which)</u>	<u>Type of Service</u>	<u>RR Lines Serving</u>
Union Station	Fort Bragg, Calif.	60 Miles.	Vehicle	Freight	Not Known.
Southern Pacific Terminal.	San Francisco, Calif.	150 miles.	Vehicle.	Freight and Passenger	All Lines.

(b) Unit's RR freight address:

U.S. Coast Guard
Loran Radio Station
Point Arena, Calif.
c/o Pier 5
San Francisco, Calif.

461, Loran Radio Station
(unit)

24 November, 1948¹⁹
(date)

(d) Sea:

(1) Terminals (for ocean-going-vessels) accessible to unit by vehicle or boat

<u>Name</u>	<u>Location</u>	<u>Distance from Unit</u>	<u>Via Vehicle or Boat (show which)</u>	<u>Type of Service</u>	<u>SS Lines Serving</u>
Arena Cove	Point Arena, California.	4 miles.	Vehicle	Wharf for small boats only.	None

(2) Anchorage (for ocean-going vessels) in vicinity of unit:

- (a) Location: **Arena Cove, Point Arena, Calif.**
- (b) Controlling depth: **7 Fathoms.**
- (c) Holding ground: **Rocky Bottom.**
- (d) Protection from wind and sea: **No protection. Exposed to Westerly swells.**
- (e) Average sea conditions:
Moderate westerly swells.

(f) Distance to landing beach or wharf: **4 miles.**

(3) Wharf at or near unit for landing supplies by boats:

- (a) Location: **Arena Cove, Point Arena, Calif.**
- (b) Type of construction: **Wood piling.**
- (c) Controlling depth of channel: **7 fathoms.**
- (d) Range of tide: **6 feet.**
- (e) Length of berth across face: 25 ft.; depth of water at MLW 14 ft.
- (f) Length of berths alongside: 200 ft.; depth of water at MLW 0 to 14 ft
- (g) Cargo handling facilities: **None. (For small vessels only)**

(h) Normal routes and methods of moving supplies to storage (indicate distance and type of terrain and roads traversed):
By vehicle over paved roads, 4 miles to the station.

(4) Landing beach at or near unit for landing supplies by boats:

- (a) Location: **None**
- (b) Nature of beach:
- (c) Bottom:
- (d) Slope above and below waterline:
- (e) Usable length:
- (f) Reefs, etc., limiting access:

(unit)

_____, 19____
(date)

(g) Surf and wind conditions affecting use:

(h) Precautions:

(i) Types of boats suitable for landings:

(j) Normal routes and methods of moving supplies to storage (indicate distance and type of terrain and roads traversed):

461, Loran Radio Station
(Unit)

24 November, 1948
(date)

7. Logistics:

(a) Indicate sources of supply, etc., of following:

	Normal Source	Frequency Of Delivery	Via (Method of Delivery)	Alternate Source	Local Source	Remarks
<u>Meat</u>	Naval Commissary, Treasure Island San Francisco, Calif.	Twice Monthly	Vehicle		Open Market	Satisfactory
<u>Dry Provisions</u>	Same as above.					
<u>Fresh Frts & Veggies</u>	Same as above.					
<u>Personal Stores</u> (candy, tobacco, etc.)	Open Market at local stores.					
<u>Clothing</u>	CG Small stores Alameda, Calif.		Vehicle	Navy Small Stores at Treasure Island San Francisco, Calif.	Open Market.	Satisfactory
<u>Fuel</u>	Local Oil Companies.	Monthly	Tank Truck	None		Satisfactory.
<u>Machinery Parts</u>	San Francisco, Calif.	When Needed.	Vehicle			Satisfactory.
<u>Electronic Parts</u>	12th CG District Sources.	When needed.	Vehicle.			Satisfactory.

461, Loran Radio Station
(unit)

24 November, 1948
(date)

(b) Indicate source, method, and adequacy of water supply: Deep well on station with a Myers deep well pump. Also a 4500 gallon storage tank. Water supply is adequate.

(c) Indicate source, method, and adequacy of electric power supply, including emergency supply: Commercial Power from Pacific Gas and Electric Co. This power not very satisfactory due to poor voltage regulation.
Emergency supply used is from Diesel Generators, International Model EE-205-B.

(d) Storage space:

	<u>Cu. Ft.</u>	<u>Adequate?</u>	<u>Additional Required</u>
Frozen Storage:	135	Yes	None
Chilled Storage:	32	Yes	None
Fresh Frts & Vogs:			
(except chilled)	512	Yes	None
Dry Provisions:	512	Yes	None

	<u>Gallons</u>	<u>How Stored</u>	<u>Adequate?</u>	<u>Additional Required</u>
Drinking Water	4,500	Steel tank	Yes	None
Diesel Oil	810	Underground tanks	Yes	None
Gasoline	270	Underground tank	Yes	None
Kerosene				
Coal (Tons)				

(e) Fuel requirements, annual: List: Diesel Fuel Oil 12,000 Gallons. Gasoline 3,000 gallons and Stove Oil 10,800 gallons. As soon as Commercial power can be utilized for Loran equipment operation the Diesel Fuel Oil consumption will be approximately 80 % less.

(f) Comment on adequacy of existing method of procuring, handling and storing supplies: All satisfactory.

8. Security: Fences completely around station. Stores locked. 24 Hour Security Watches.

(a) Describe provisions made and measures being taken to limit access to the unit (fences, gates, security watches, etc.):

(b) Are these provisions and measures adequate? Yes. If not, explain:

(c) Is trespass or attempted trespass by unauthorized persons considered likely: Explain: Not likely, due to more or less isolation.

461, Loran Radio Station
(unit)

24 November, 1948
(date)

- (d) What means has the unit at hand to defend itself against armed attack, sabotage, etc.? (Small arms, ammunition, etc. List):

<u>Allowed</u>	<u>On Board</u>	<u>Adequate?</u>	<u>Remarks</u>
2- 45 calibre Auto. Pistols.	2		
50- Rounds of ammunition.	50 rounds.	Yes	

- (e) What local sources of armed assistance may be depended upon? (U.S. Army or Navy units, etc. List): **Coast Guard Lifeboat Station and Light Station.
Point Arena Sheriff.**

- (f) Firefighting equipment at unit:

<u>On Board</u>	<u>Operative?</u>	<u>Adequate?</u>	<u>Remarks</u>
Gasoline fire pump. (see inclosure 3)	Yes.	Yes.	14,000 gallon reserve tank.

- (g) Are fire mains well-located and operative? Yes. If not, explain:

(Note: Indicate fire hydrants in red on inclosure 3)

- (h) What type of fire watch is maintained? **Station check every hour.**

- (i) What firefighting assistance from other sources may be depended upon?
**Assistance from the Lifeboat and Light stations.
Local Point Arena Fire Dept. (Volunteer)**

9. Sanitation and Health:

- (a) Drinking water:

- (1) What precautions are taken to insure that the supply is fit to drink?
Tested every six months.

461. Loran Radio Station
(unit)

24 November, 1949
(date)

(2) Are these precautions considered effective? Yes. If not, explain:

(b) Garbage:

(1) How is garbage disposed of? Dumped into the Ocean.

(2) Is this method satisfactory? Yes. If not, explain:

(c) Sanitary System:

(1) Are adequate lavatories, bathtubs, showers, waterclosets, sinks, laundry tubs, etc., available and operative? Yes. If not, explain:

(2) How is sewage disposed of? Through sewage pipe to the sea.
Is this method satisfactory? Yes. If not, explain:

(d) Refuse matter:

(1) What precautions are taken to prevent propagation and spread of disease germs from refuse matter? Screens on windows and doors during certain seasons. Use of insecticide with spray guns. Refuse matter is not allowed to collect in sufficient quantities to cause flies and mosquitoes to gather. All refuse is dumped into the sea.

(2) Are these precautions considered effective? Yes. If not, explain:

(e) Insect pests:

(1) What precautions are taken to safeguard personnel against insect pests? Screens on windows and doors during certain seasons. Use of insecticide with spray guns.

(2) Are these precautions considered effective? Yes. If not, explain:

- (f) Diseases: Prepare, mark "inclosure 7", and append: (1) list of diseases common to the area against which, according to your best knowledge or belief special inoculations or other precautions are necessary. Indicate whether or not such inoculations or other precautions are being carried out; give details of precautions. (2) List of diseases or ailments which occur most frequently among unit's personnel. (Note: If in doubt as to precise medical nomenclature, give best information available.)

(g) Medical aid:

- (1) Nearest hospital available for unit's use:

Distant 150 miles via vehicle.

- (2) Nearest regularly authorized source of professional medical treatment

Distant 4 miles via vehicle

Describe employment status of physician (U.S.P.H.S. officer; civilian contract physician, full time or part time, etc.)

Contract physician.

- (3) Nearest regularly authorized source of professional dental treatment

Distant 150 miles via vehicle, also Dental truck once a year.

Describe employment status of dentist:

U.S. Public Health Service Officer at San Francisco, Calif.

- (4) Are services furnished as indicated in (1), (2) and (3) above satisfactory? Yes. If not explain:

- (5) Location of more convenient facilities for emergency medical or dental treatment (not regularly authorized):

Fort Bragg, Calif.

- (6) What facilities and personnel are available at the unit for providing first aid treatment? **First Aid Kits and first aid given by Officer in Charge.**

Are these adequate? Yes. If not, explain:

- (7) Are there any sanitary or medical service problems which make it desirable for a sanitary engineer or medical representative to visit the unit? (Indicate nature of problem.) **None.**

10. Welfare:

(a) Family quarters:

- (1) Are government quarters provided at the unit? No. If yes, for how many families? _____
- (2) Are these adequate? If not, explain:
- (3) Are privately owned rental quarters available in the area in quantities sufficient to meet the unit's reasonable needs? **Yes.**

(b) Recreation:

- (1) What types of recreation and what recreational facilities are available at the unit? (Underscore most popular types).
- Recreation building available.
- Pool table loaned to unit by private party.
- Ping Pong table.
- Basketball and softball.
- Small library with several hundred books.
- Boxing gloves.
- Radio and phonograph.

461. Loran Radio Station
(unit)

24 November, 1948
(date)

- (2) What additional types of recreational facilities, within reason, might be provided to good advantage at this unit?

Punching bag equipment.

Fishing equipment such as rods and reels.

- (3) What types of recreation and what recreational facilities are available in the nearby vicinity?

Moving Pictures twice weekly.

Basketball on the local high school floor.

Fishing.

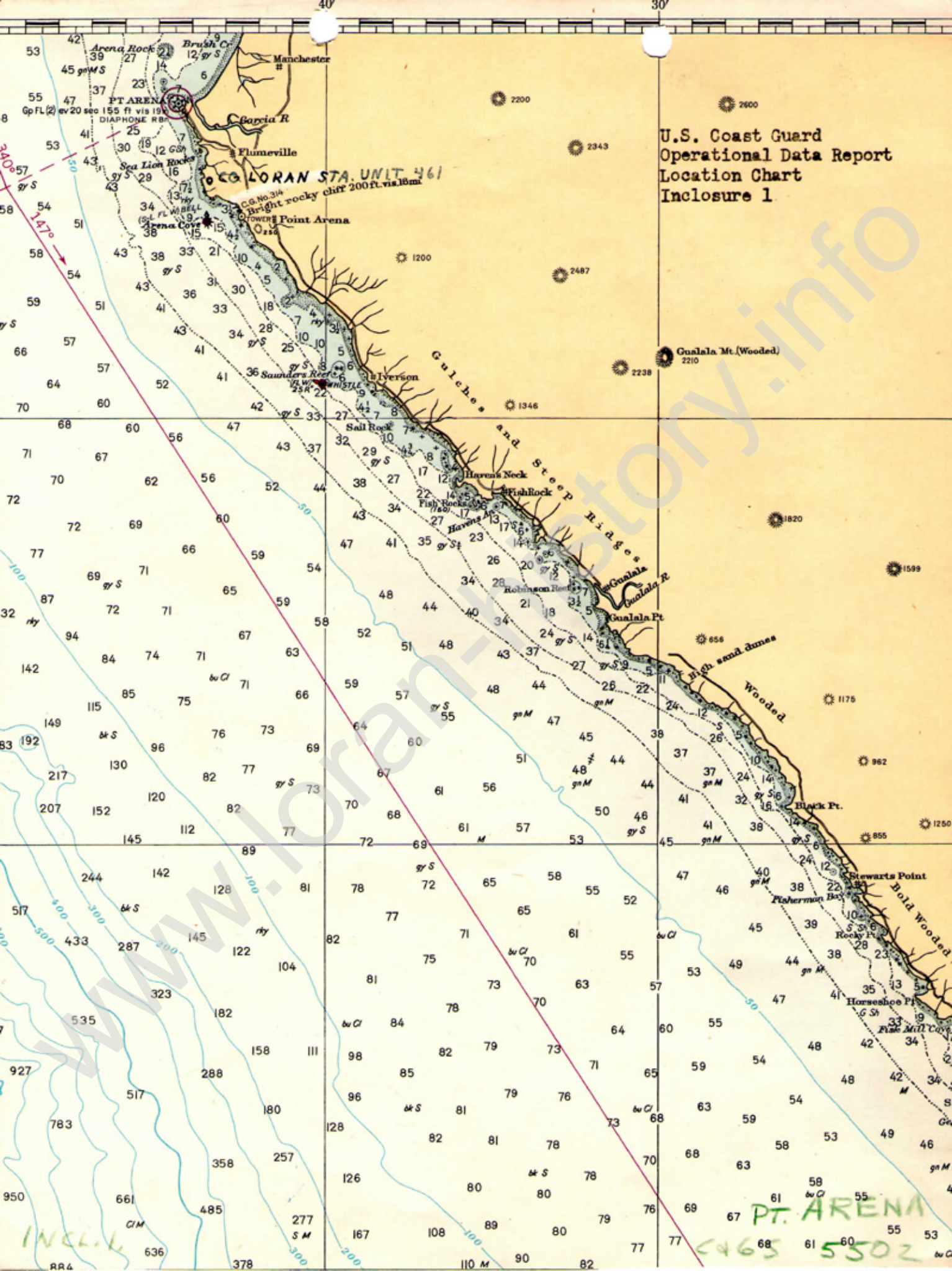
U.S. COAST GUARD
OPERATIONAL DATA REPORT
PART III

(date) 19____

1. Reporting unit: _____; _____ Coast Guard District

2. Work Load Estimates:

- (a) As applied to work-loads in inclosure 8 of this report, the term "optimum condition" shall mean "work-load imposed by performance of the unit's assigned tasks, including normal maintenance of unit and equipment"; "minimum condition" shall mean "work-load imposed by performance of the unit's assigned tasks, including emergency minor repair of equipment". The latter term shall represent the minimum work-load below which the unit may expect to cease effective operations.
- (b) Prepare, mark "inclosure 8A", "inclosure 8B", etc., and append a Work-Load Estimate sheet for the unit and one for each additional facility attached. In "man-hours/week" column, indicate estimated average work-load in the specific type of activity indicated on left-hand side of sheet. In the "recommended rating structure" column, do not break the rating down into chief, 1c, 2c, 3c; show only the general classification, thus "ET", "EN", etc. (Note: A sample "Work Load Estimate" sheet is attached.)



U.S. Coast Guard
Operational Data Report
Location Chart
Inclosure 1

COLORADO STRAIT UNIT 461

PT. ARENA
465 5502

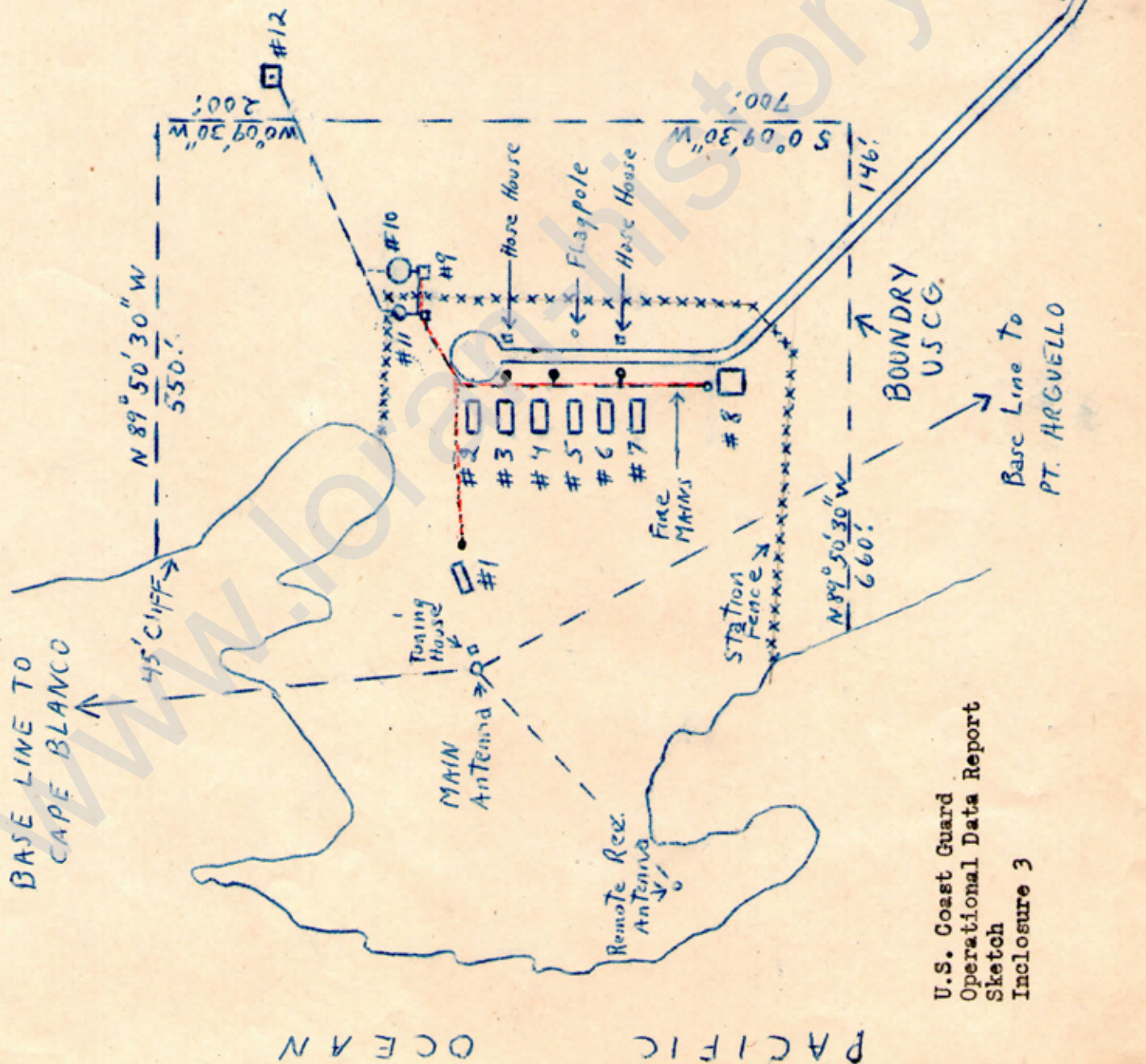
VICINITY MAP

POINT ARENA LORAN STATION

Scale: Approx. 1" = 200'

Building Numbers.

- #1 - Transmitter Bldg.
- #2 - Diesel Power Bldg.
- #3 - Galley.
- #4 - Recreation Bldg.
- #5 - Crews Quarters.
- #6 - Officers Quarters.
- #7 - Storage Bldg.
- #8 - Garage.
- #9 - Fire Pump House.
- #10 - Water Tank (fire).
- #11 - Water Tank (general use).
- #12 - Well and pump house.



U.S. Coast Guard
Operational Data Report
Sketch
Inclosure 3

U.S. COAST GUARD
OPERATIONAL DATA REPORT
PHYSIOGRAPHY
INCLOSURE 4

UNIT 461
LORAN RADIO STATION
POINT ARENA, CALIF.
24 NOVEMBER, 1948

1. Type of soil at station, black top soil first 6 feet then brown sandstone for next 15 feet. Dark grey sandstone for next 110 feet, black sand (water strata) for next 9 feet.
2. No evidence of erosion
3. For local region, fur trees and redwood trees grow in abundance. For immediate site nothing but grass and lowstunted trees of unknown species.
4. For local region, mountainous country. For units immediate site gentle slope with bottom land one quarter of mile from the station rising to gentle hills one half mile from station.
5. Cliffs approximately 100 yds from station on two sides. Cliffs 45 feet high from water.
6. No beaches or waterways near.
7. Rainy season begins about the last of November and ends around the middle of April. Temperature range is approximately from 42 degrees in winter to approximately 60 degrees in the summer.
8. Nothing of special interest to the Coast Guard in this locality.

U.S. COAST GUARD
OPERATIONAL DATA REPORT
STRUCTURERS FORM;
INCLOSURES 5A TO 5L

UNIT 461
LORAN RADIO STATION
POINT ARENA, CALIF
24 NOVEMBER, 1948

NUMBER	STRUCTURE TYPE	CU. FT.	PURPOSE USED	CAPACITY	INCLOSURE
1.	Metal Quonset Hut	6720 cu.ft.	Loran Equipment	---	5A
2.	Metal Quonset Hut	6720 cu.ft.	Power Equipment	---	5B
3.	Metal Quonset Hut	6720 cu.ft.	Galley, Mess Hall	40 Men	5C
4.	Metal Quonset Hut	6720 cu.ft.	Recreation	20 Men	5D
5.	Metal Quonset Hut	6720 cu.ft.	Crews Quarters	20 Men	5E
6.	Metal Quonset Hut	6720 cu.ft.	Officers Quarters	2 Men	5F
7.	Metal Quonset Hut	6720 cu.ft.	Storage Hut	---	5G
8.	Redwood Frame Conventional Garage Type	11232 cu.ft.	Garage	3 Vehicles	5H
9.	Plyboard Frame	448 cu.ft.	Fire Pump House	---	5I
10.	Redwood Tank	---	Water storage in case of fire	14000 gal.	5J
11.	Redwood Frame Tower with steel water tank	---	Station water supply	4500 gal.	5K
12.	Plyboard Frame	336 cu.ft.	Deep Well pump house	---	5L

All structures as now equipped fills its purpose adequately.

U.S. Coast Guard
Operational Data Report
Berthing, Messing Space
Inclosure 6

Unit 461
Loran Radio Station
Point Arena, Calif.
24 November, 1948

No Items required by this Unit to permit full utilization of
a available berthing and messing space.

U.S. Coast Guard
Operational Data Report
Diseases
Inclosure 7

Unit 461
Loran Radio Station
Point Arena, Calif.
24 November, 1948

All diseases common to the United States. All personnel records are checked once yearly and inoculations given as needed. No uncommon diseases have been noted at this unit.

Intestinal attacks at one time were occurring frequently but since the new well and water supply was installed we have had no recurrence of these attacks. As stated elsewhere, the water is tested every six months as a check against possible disease.

U.S. COAST GUARD
 OPERATIONAL DATA REPORT
WORK LOAD ESTIMATES; Inclosure 8 (~~XXXXXX~~)

24 November, 1948 ~~30~~

(date)

Loran Radio Station

Point Arena, Calif.

(unit)

For (unit. 461, Loran Radio Station.

(~~XXXXXXXXXXXX~~)

) Strike out one which
) does NOT apply

	Optimum Con- dition (average Man-hrs/week	Minimum Con- dition (average Man-hrs/week)
1. Operational		
Watchstanding:		
(a) Scope - - - - -	336	168
(b) Communications- - - - -		
(c) Duty technician - - - - -	168	168
(d) Duty mechanic - - - - -	168	168
(e) Security- - - - -	336	168
(f) - - - - -		
(g) - - - - -		
(h) - - - - -		
2. Maintenance & Repairs:		
(excess work load over such work performed by watch- standers, item 1, above).		
(a) <u>Electronics</u> - - - - -	42	28
(b) <u>Mechanical Maintenance</u> - - - - -	56	42
(c) <u>General Maintenance</u> - - - - -	210	140
(d) - - - - -		
(e) - - - - -		
3. Station services:		
(a) Mess; operation of- - - - -	168	84
(b) Stores; procurement/handling of - - - - -	7	7
(c) Correspondence/records; preparation/handling of - - - - -	40	40
(d) Training and drills - - - - -	54	27
(e) Medical - - - - -		
(f) Boat duty - - - - -		
(g) - - - - -		
(h) - - - - -		
4. Ineffective time:		
(a) Sick (including travel time)- - - - -	10	10
(b) Absent, temp. duty (incl. travel time)- - - - -	5	5
(c) Leave (including travel time) - - - - -	150	150
(d) Liberty - - - - -	414	414
(e) Vacancy (detachment prior arrival of relief)- - - - -		
(f) - - - - -		
5. Total man-hrs/week: - - - - -	2164	1619

461, Loran Radio Station
(Unit)

24 November, 1948
(date)

6. Recommended
rating structure:

Optimum
Condition

Minimum
Condition

Rating

Number

Number

ET	- - - - -	7	- - - - -	7
SC	- - - - -	1	- - - - -	1
EN	- - - - -	1	- - - - -	1
SN	- - - - -	6	- - - - -	4
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7. Total enlisted personnel recommended - - - - - 15 - - - - - 13