

18<sup>TH</sup> LIGHTHOUSE DISTRICT

Department of Commerce and Labor

LIGHTHOUSE SERVICE

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DESCRIPTION

OF

CRESCENT CITY

LIGHT STATION

State: California

June 30, 1907

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# DESCRIPTION OF LIGHT STATION.

1. By whom described John H. Jeffrey, Keeper, date June 30, 1907.

## STATION.

2. Name of station, Crescent City Light Station.

3. Characteristic of light, White flash every 15 seconds.

4. Geographical position of light: Latitude, 41° 44' 36"; longitude, 124° 12' 10".

5. Location, Northern California - Del Norte County.

## PREMISES.

6. Origin of title to site of station (public land, purchase, lease, military or naval reservation),

Public Land

7. Date of reservation, deed, lease, or permission to occupy, Dec. 8, 1855

8. Area of the entire site, 11.53 ac.; (b) area inclosed, none; (c) type of fence, no fence?

9. Distance of tower from nearest high-water mark, About 50 ft.

10. Wharf or landing on premises, Landing can be made on S end of island if sea is smooth.

11. Means by which the light station may be reached and distance to nearest post office or town, with

name, By teams when road is clear, 3/4 mile to Crescent City.

12. Tower or other means used for supporting the lantern and apparatus, Tower.

13. Number of separate lights, One

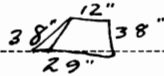
14. When first built or established, 1856

## DESCRIPTION OF LIGHT STATION.

## PREMISES—Continued.

15. When last thoroughly rebuilt, repaired, or renovated, 1878
16. Height of focal plane of lantern above mean high water (on sea and gulf coasts) or mean lake level on northern lakes and rivers, 77 ft.
17. Background of the lighthouse, upon which it is projected, as seen from seaward, Mountains, dark green vegetation.
18. Color of tower, and how produced, White, paint
19. Tower—Connected with keeper's dwelling, and how; or detached, In center of dwelling.
20. Purpose of aid—Seacoast, lake coast, bay, harbor, channel, or range; for general or local navigation, Seacoast Harbor — general navigation
21. Materials of which the tower is built, Foundation, stone. Tower, brick.
22. Kind of stairway and steps, Wood. Iron ladder to lantern.
23. Size of glass for glazing tower windows, 10"x14"
24. Number of windows in tower, and size of sash, 2 - 32"x24"
25. Number and size of doors, 2 doors 2-6x6-8", 2-6x6-4"
26. General remarks upon tower and site, \_\_\_\_\_

## LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, 4<sup>th</sup>
28. Polygonal with number of sides, or cylindrical with diameter, Polygonal. 8 sides.
29. Vertical or helical bars, Vertical; height glazed, 36"
30. Number of plates in height, One; in each side, One
31. Thickness and size of plates,  12"x29"x38"
32. Unglazed side of lantern in plates and degrees of arc, None; between what bearings (true and from seaward), \_\_\_\_\_
33. Materials of which the lantern is constructed, Iron & brick.
34. Roof, Iron.

## LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Iron.
36. Lightning-conductor spindle, Yes, not connected to ground.
37. Balustrade and outside gallery, Iron Balustrade, brick gallery.
38. Lantern doors, and how fitted, Iron doors and casing, hinged.
39. Floor of lantern—Of what materials, Iron.
40. Watch-room door leading into lantern, and how fitted, Iron door in floor, hinged.

## VENTILATORS.

41. In parapet, wall, or lower part of lantern, In wall, one in iron door.
42. Lantern ladders for cleaning plate glass, outside, None.
43. Curtain hooks inside of lantern—How fitted, Curtain tied to rod with tape.

## WATCH ROOM.

44. How fitted, No.
45. Bell wires, speaking tubes, or telephones for calling relief keepers—Kind, None.
46. Where led, None.

## ILLUMINATING APPARATUS, ETC.

47. Kind of apparatus, Flashing lens.; intensity in English candles, Flux = 100,000 c.p.
48. Name of maker, Barbier Bernard & Tirenne; year made, 32,000
49. Marks and number on apparatus, None.
50. Order of apparatus, Fourth.; inside diameter (inscribed circle, tangent to glass) of central drum, 19 3/4 inches.
51. If the apparatus is a parabolic mirror, state (a) diameter of opening, \_\_\_\_\_; (b) depth of mirror, \_\_\_\_\_; (c) its focal length, \_\_\_\_\_; (d) material of which it is made, \_\_\_\_\_
52. If revolving, time of revolution, 1 minute
53. If fixed, or fixed varied by flashes, state arc of each fixed part in degrees, \_\_\_\_\_

## ILLUMINATING APPARATUS, ETC.—Continued.

54. Number of panels in the lens apparatus, Four.....
55. Number of flash panels, Four.....; arc of each, in degrees, 90°.....
56. Number of elements in each panel of central drum of lens, 3.....
57. Number of prisms in each panel *above* central drum of lens, 6.....
58. Number of prisms in each panel *below* central drum of lens, 4.....
59. How are the flashes produced—By the whole apparatus revolving Yes.....; by revolving belt only       .....; if by panels or vertical elements revolving outside of fixed lens, state the number of such panels,       .....
- ~~60. If by vertical elements, state (a) the number in each panel,       .....; and (b) the number of elements of fixed lens covered by the panel,       .....~~
61. If light is occulting, state (a) the characteristic,       .....
- (b) Between what time limits may characteristic be varied without structural changes in mechanism?       .....
- (c) Are eclipses produced by sleeve, revolving screens, or valve (if gaslight)?       .....
- (d) Size of sleeve and amplitude of movement,       .....
- (e) Axis of rotation of screens, horizontal or vertical,       .....; (f) relation of axis to vertical axis of illuminating apparatus,       .....
- (g) Do the screens revolve as parts, or independently, of illuminating apparatus?       .....
- (h) If about vertical axis, how many in circumference,       .....; (i) time required for complete revolution,       .....; (j) form,       .....;
- (k) how mounted (see Questions 62–65),       .....;
- (l) if actuated by clockwork, state order and maker,       .....;
- (m) date made,       .....
- If occultation is effected by valve, state (n) name of maker,       .....;
- (o) pattern,       .....;
- ~~(p) does it operate reliably?       .....~~
62. If revolving, does the apparatus revolve on a chariot, mercury float, or balls? Balls.....
- ~~63. If a chariot, describe it and state the number and size of each pattern of wheels in it,       .....~~

## ILLUMINATING APPARATUS, ETC.—Continued.

64. ~~If on mercury float, give (a) inside diameter of trough, .....; (b) inside depth of trough, .....; (c) outside diameter of float, .....; (d) depth of float, .....; (e) weight of mercury required, in pounds, .....; (f) how often mercury is renewed? .....~~
65. If on balls, (a) describe the construction of the ball-raceways, whether they are flat surface or semicircular or V grooves, V grooves .....  
 (b) state number of balls, 22 .....; (c) diameter of balls, 7/16" .....
66. Clock cord or chain, kind, Cord, wire .....; size, 1/8" .....; length, 100' .....; ?  
 how led, by sheave in drop tube .....; diam. and length of clock drum, 4 x 4" ..... ?
67. Length and inside dimensions of drop tube or weight box, 26'-0" .....; ?  
 clock weight, 200 ..... pounds.
68. Length of time clock will run after one winding, Eight hours .....
69. Does clock drive apparatus while being rewound? No .....
70. How is the machinery protected? Glass case .....
71. How regulated? By changing weights, or fans .....
72. Describe the pedestal, 4-1" posts supporting iron plate. posts iron with cover of brass tubing. .....
73. Lens protector—Is there one? Yes .....; kind, — .....
74. Draft tube leading into ventilator ball—Of what material, diameter, and how fitted and connected with damper tube when in place, None .....
75. If colored light, (a) how is the color produced? .....
- (b) state where colored glass is attached, if to illuminating apparatus or to lantern, .....
76. If colored glass is inside of illuminating apparatus, describe its form, .....
77. Red sectors—Between what bearings, true (from seaward), .....

DESCRIPTION OF LIGHT STATION.

LAMPS, BURNERS, ETC.

~~Fund's Heap~~

1/29/76  
New Electric Lt.

78. Description of lamp: (a) give order, 4<sup>th</sup> order; (b) kind of illuminant, oil

(c) intensity in English candles, 50 *Elec. Lt. sent out by Co. in Feb 1-1924*

If oil, or oil vapor:

(a) number of wicks, or mantels, to burner, One wick

(b) diameter of outside wick, 1 1/2 inches; (c) diameter of mantel, \_\_\_\_\_

(d) if more than one mantel, also diameter of circumscribing circle, \_\_\_\_\_

If gaslight:

(e) state kind, \_\_\_\_\_; (f) number of burners, if more than one burner in group, \_\_\_\_\_; (g) kind of burner, \_\_\_\_\_

(h) candlepower per burner, \_\_\_\_\_; (i) total candlepower of group, \_\_\_\_\_

(j) consumption of gas per burner per hour, \_\_\_\_\_ cubic feet;

(k) total consumption per hour, \_\_\_\_\_ cubic feet; (l) how is gas obtained?  
\_\_\_\_\_

If gas is generated at station:

(m) describe generator, \_\_\_\_\_

(n) state name of maker, \_\_\_\_\_

(o) date of pattern, \_\_\_\_\_; (p) maximum capacity per hour, \_\_\_\_\_  
\_\_\_\_\_ cubic feet.

If compressed gas is used:

(q) describe container and give number in service, \_\_\_\_\_; spare \_\_\_\_\_

(r) capacity, \_\_\_\_\_ cubic feet of free gas; (s) to what pressure charged, \_\_\_\_\_  
\_\_\_\_\_ lbs.; (t) how is supply renewed? \_\_\_\_\_

(u) if by substitution of full for empty container, at what intervals? \_\_\_\_\_  
\_\_\_\_\_

79. Number of spare lamps at station, Three

80. Number of spare lamp burners at station, Three

CLOSETS IN TOWER.

81. How fitted and used, None.

OIL HOUSE OR ROOM.

82. Describe (a) where placed and how fitted, 45 ft. N of dwelling. Shelves, steel door, Ventilators.  
(b) inside dimensions, 9' 4" x 11' 4"; (c) materials of which built, Brick;  
(d) capacity in 5-gallon cans, about 500 gal. ?

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, one in oil house for paints & oils

84. Damp or dry, suited or unsuited to the purpose for which they were designed, Dry, suitable

FOG SIGNAL.

85. Kind and character of apparatus, No Fog Signal

86. ~~How much time is required to sound the signal? ; how long may the signal sound its characteristic with the quantity of air stored under pressure?~~

87. Characteristic :

If whistle, trumpet, or siren :

$\frac{\text{Blast}}{\text{sec.}}$      $\frac{\text{Silent}}{\text{sec.}}$      $\frac{\text{Blast}}{\text{sec.}}$      $\frac{\text{Silent}}{\text{sec.}}$

If bell :

.....strokes     $\frac{\text{Silent}}{\text{sec.}}$     .....strokes     $\frac{\text{Silent}}{\text{sec.}}$

88. ~~What parts of the fog-signal machinery are in duplicate?~~

89. ~~Location, with reference to lighthouse, to a particular danger or channel, or to the special object for which established,~~

90. ~~Distance and direction, true, from lighthouse,~~

91. ~~Water supply for it,~~

92. ~~How is it reached from the lighthouse?~~



## FOG SIGNAL—Continued.

98. ~~If whistle, trumpet, or siren, pressure at which blown, .....~~
99. Diameter of whistle, .....; height, .....; distance between orifice and edge of whistle, .....; single tone, .....; chime, .....
100. ~~If disk or cylindrical siren, .....; diameter of revolving part, .....; when made, .....; by whom made, .....; number, width, and length of ports, .....; revolutions per minute, .....; type of governor, .....; condition of revolving part, .....~~
101. ~~If Daboll trumpet: Class, .....; reed: length, .....; breadth, .....; thickness at base, .....; thickness at tip, .....~~
102. ~~If trumpet: Length, .....; diameters, .....; material, .....~~
103. ~~Timing device, .....~~
104. ~~Height of whistle or trumpet above mean high water, .....~~
105. ~~Direction, true, in which trumpet points, .....~~

## DWELLINGS FOR KEEPERS.

106. Location with reference to lighthouse tower, *Tower through center of dwelling.*
107. Coloring, *White; lead trimmings; green shutters.*
108. Materials of which built, *Stone — shingle roof.*
109. Number of rooms in each dwelling, *Five.*
110. Number of keepers and assistants to each dwelling, *One.*
111. Outhouses, *One work shop — one chicken-house.*
112. Coloring, *White washed — red roofs.*
113. Paths or walks on the premises, *Roadway around dwelling, to beach.*
114. Area susceptible of profitable cultivation, *About 1000 sq. ft.*
115. Area cultivated or prepared for cultivation, *About 1000 sq. ft.*

DESCRIPTION OF LIGHT STATION.

DWELLINGS FOR KEEPERS—Continued.

116. Character of adjacent surrounding country—Soil, sandy, clay, marsh, swamp, wood, fast ground, or shifting sands, Soil - fast ground.

117. Furnish following data for stoves, kitchen sink, sink pump, and lamps in quarters:

| ARTICLES.   | KEEPER.                                      | 1ST ASSISTANT KEEPER. | 2D ASSISTANT KEEPER. | 3D ASSISTANT KEEPER. |
|---|--|-----------------------|----------------------|----------------------|
| Stove, maker, -----   | <i>Curt. Co.</i>                             |                       |                      |                      |
| Stove, size, -----  | <i># 7-18 29</i>                             | <i>Im' 9/16 8/18</i>  | <i>2 1/2 16 1885</i> |                      |
| Sink, maker, -----  | <i>Em. S. m</i>                              |                       |                      |                      |
| Sink, size, -----   | <i>18 x 30</i>                               |                       |                      |                      |
| Pump, maker, -----  | <i>Douglass &amp; Co</i>                     |                       |                      |                      |
| Pump, size, -----   | <i>1 1/2 Sudek</i>                           |                       |                      |                      |
| LAMPS.<br>(Give name, number, and make of all lamps in such set of quarters.) | <i>1 Gas lamp<br/>5 k. oil<br/>3 Hand P.</i> |                       |                      |                      |

WATER FOR FOG SIGNAL, DRINKING, ETC.

118. How procured, Rain from roof of dwelling.

119. Quality, Good.

120. Quantity ample or not for the station at all seasons of the year, Ample.

121. Liable or not to be injured by the inroads of storm tides and seas, Only under extraordinary circumstances.

122. If rain water in tanks or cisterns, what precautions have been taken to insure its purity? Tanks covered -

123. Capacity of tanks or cisterns, and where placed, 1-12,000 gal. 1-5,000 gal tank. 1-2,000 gal cistern. Cistern under kitchen.

124. Tanks or cisterns—Of what material made, Tanks - sugar pine & redwood. Cistern cement-1 drge small.



## DESCRIPTION OF LIGHT STATION.

## BOATS—Continued.

136. If power boat, kind of engine, \_\_\_\_\_; horsepower, \_\_\_\_\_;  
 maker of engine, shop number, and date, \_\_\_\_\_  
 (a) type, size, number, and maker's name of spare coil, \_\_\_\_\_  
 \_\_\_\_\_  
 (b) type, size, number, and maker's name of magneto, \_\_\_\_\_  
 \_\_\_\_\_  
 (c) type and number of batteries, \_\_\_\_\_  
 (d) propeller wheel, diameter, \_\_\_\_\_; pitch, \_\_\_\_\_
137. Where are boats kept at station? \_\_\_\_\_

## LANDING, WHARF, BOATHOUSE, AND ROAD TO THE LIGHTHOUSE.

138. Description, *No wharf. Can land on rock at southern end of island at high tide when sea is smooth. Wharf, owned by Hobbs Wall & Co about 1/2 mile from station.*
139. Distance and direction of landing from lighthouse, *From 1000 to 1500 ft.*
140. Hoisting engine, what kind? *None.* \_\_\_\_\_;  
 diameter of cylinder, \_\_\_\_\_; number of revolutions per minute, \_\_\_\_\_;  
 stroke, \_\_\_\_\_; kind of boiler, \_\_\_\_\_;  
 maker and date, \_\_\_\_\_
141. General Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prescent Elec. Electric Lt & Pow. furnished by Holt, Wall & Co  
Mr Holt's Sec. S.F. serv. 1st & 7th St. Sept 1973. re 2000 & 1000  
Voltage 2200 Primary - 110/220 secondary  
60 cycle. Sim. P. - 2% drop to Station  
Cu & a - 1.5 hrs from 4:30 to 10:00 daily.

7-226

Tanks on Station K's up to May 24-26.  
2-175 gal tanks 1 filled with Kerosene  
1-60 " " originally for H.H. 1 ed. some 7/17 410 gal  
(1-175 gal. tank evidently full of Kerosene)  
1/2 full a ret. lbs for gal. then 235 gal.

Sasoline 240 11.7 Decca 9.11 in 19.7 Rad. Phone  
Stron 1 2-sets 3 each 4 Volt cells. Edison Type BB-2  
1 set 200-21 and 1 set being recharged.  
recharging at 1-1/2 of 24 hrs per month = 9.12, 11 = 114 gal per month  
Pump 5.000 re. station Pump & Station needs approx 20 gal per year  
7/17 approx 150 gal per year.