Form 60

2701

Files

9d LIGHTHOUSE DISTRICT

Department of Commerce and Labor

LIGHTHOUSE SERVICE

DESCRIPTION

1/1

OF

Watch Hill

LIGHT STATION

State: Rhode Island ~~Connecticut~~

December 17, 1911

DESCRIPTION OF LIGHT STATION.

1. By whom described Oscar C. Rantin, date December 17-1911

STATION.

2. Name of station, Watch Hill

3. Characteristic of light, Fixed White (420 V) Alt. Gp. Fl. R, 15 sec. 2 flashes

4. Geographical position of light: Latitude, ____° ____' ____"; longitude, ____° ____' ____".

5. Location, On point, south side of east entrance to Fishers Island Sound.

PREMISES.

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

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

8. Area of the entire site, ____; (*b*) area inclosed, ____; (*c*) type of fence, ____

9. Distance of tower from nearest high-water mark, 75. feet

10. Wharf or landing on premises, none

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

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, 1867

PREMISES—Continued.

15. When last thoroughly rebuilt, repaired, or renovated, 1856

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, 61 feet

17. Background of the lighthouse, upon which it is projected, as seen from seaward, Sky buildings and trees beyond

18. Color of tower, and how produced, Gray natural stone

19. Tower—Connected with keeper's dwelling, and how; or detached, built against the corner of the house

20. Purpose of aid—Seacoast, lake coast, bay, harbor, channel, or range; for general or local navigation, Bay & general navigation

21. Materials of which the tower is built, Granite

22. Kind of stairway and steps, Iron

23. Size of glass for glazing tower windows, 10" x 15"

24. Number of windows in tower, and size of sash, 2 - 12 lights 10"x15"

25. Number and size of doors, 2 - 1-2-0 x 6-9 - one 2-10 x 6'-0"

26. General remarks upon tower and site,

LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, 4

28. Polygonal with number of sides, or cylindrical with diameter, Cylindrical 7'-0"

29. Vertical or helical bars, Triangular; height glazed, 8'-0"

30. Number of plates in height, One; in each side, One

31. Thickness and size of plates, 1/2" 36"

32. Unglazed side of lantern in plates and degrees of arc, Cast iron;

between what bearings (true and from seaward),

33. Materials of which the lantern is constructed,

34. Roof, Cast

LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Iron

36. Lightning-conductor spindle, Copper

37. Balustrade and outside gallery, Iron

38. Lantern doors, and how fitted, Iron framed and hinged

39. Floor of lantern—Of what materials, Iron

40. Watch-room door leading into lantern, and how fitted, no watch room

VENTILATORS.

41. In parapet, wall, or lower part of lantern, In parapet

42. Lantern ladders for cleaning plate glass, outside, none

43. Curtain hooks inside of lantern—How fitted, hooks in sash

WATCH ROOM.

44. How fitted, none

45. Bell wires, speaking tubes, or telephones for calling relief keepers—Kind, none

46. Where led,

ILLUMINATING APPARATUS, ETC.

R. Fl. 7200
W 2900

47 Kind of apparatus, lens; intensity in English candles, ~~[illegible]~~ C.P.

? 48. Name of maker, L. Sautter; year made,

49. Marks and number on apparatus, none

50. Order of apparatus, 4 th; inside diameter (inscribed circle, tangent to glass) of central drum, 19½"

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, 15 sec

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, 4

? 55. Number of flash panels, none; arc of each, in degrees, ...

? 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, 5

? 58. Number of prisms in each panel *below* central drum of lens, 3

59. How are the flashes produced—By the whole apparatus revolving .....; 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? .....

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, 4th order mercury float (5765 Dr.); (*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, ____

(*b*) state number of balls, ____; (*c*) diameter of balls, ____

66. Clock cord or chain, kind, ____; size, ____; length, ____; how led, ____; diam. and length of clock drum, ____

67. Length and inside dimensions of drop tube or weight box, ____; clock weight, ____ pounds.

68. Length of time clock will run after one winding, ____

69. Does clock drive apparatus while being rewound? ____

70. How is the machinery protected? ____

71. How regulated? ____

72. Describe the pedestal, Iron casting, flanged bottom flaring to

73. Lens protector—Is there one? yes; kind, Iron cone

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), ____

CLOSETS IN TOWER.

81. How fitted and used, ---

OIL HOUSE OR ROOM.

82. Describe (*a*) where placed and how fitted, near engine house and tower

(*b*) inside dimensions, 10' 15 x 5; (*c*) materials of which built, steel iron;

(*d*) capacity in 5-gallon cans, ---;

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, Store closets shelved and lined.

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

FOG SIGNAL.

85. Kind and character of apparatus, ~~2d class Daboll trumpet~~ 2-d-cl. reed horn

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:				If bell:			
Blast 5 sec.	Silent 25 sec.	Blast 5 sec.	Silent 25 sec.	---strokes	Silent sec.	---strokes	Silent sec.

88. What parts of the fog-signal machinery are in duplicate? Engine, governor and timing device

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, 30'-5" S W

91. Water supply for it, Rain water

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

FOG SIGNAL—Continued.

93. Description of fog-signal building or buildings, ...

94. **If a bell,** state (*a*) weight, ... lbs.; (*b*) metal, ...; (*c*) diameter, ...; (*d*) height, ...; (*e*) if struck by clockwork, state time it will run with one winding, ...; (*f*) maker and date, ...

95. **If a steam signal,** describe boiler: (*a*) type, ...; (*b*) length, ...; (*c*) diameter, ...; (*d*) horsepower, ...; (*e*) maker and date, ...

(*f*) Is there a heater? .....; what kind? .....; what size? .....; how much does its use reduce the time of starting the fog signal? .....

96. **If a steam engine is used:** (*a*) kind, ...; (*b*) number of revolutions per minute, ...; (*c*) diameter of cylinder, ...; (*d*) stroke of piston, ...; (*e*) horsepower, ...; (*f*) maker and date, ...

97. **If internal combustion engines are used:** (*a*) kind of engine, vertical;
(*b*) maker, Duluth Gasoline Machine Co;
(*c*) date, ...; (*d*) nominal size, ...; (*e*) horse power, 4;
(*f*) fuel used, Mineral Oil; (*g*) how started, heating vaporizer;
(*h*) kind of compressor, horizontal; (*i*) maker and date, Berryhill Co

State if compressor is on same bed and geared with engine, or separate and belt-driven, Separate bed Geared

Describe compressor machinery, ...

FOG SIGNAL—Continued.

98. **If whistle, trumpet, or siren,** pressure at which blown, 12 to 15 lbs

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, ~~2d class~~ 1st class; reed: length, ____; breadth, ____; thickness at base, ____; thickness at tip, ____

102. **If trumpet:** Length, 12'; diameters, 4" and 26"; material, Copper

103. Timing device, Automatic clocks

104. Height of whistle or trumpet above mean high water, 50 feet

105. Direction, *true*, in which trumpet points, South

DWELLINGS FOR KEEPERS.

106. Location with reference to lighthouse tower, Built against the tower

107. Coloring, White

108. Materials of which built, Bricks

109. Number of rooms in each dwelling, 11

110. Number of keepers and assistants to each dwelling, One of each

111. Outhouses, Barn, Privy & Coal house, Coal bin, Signal house

112. Coloring, White White White Red Red Red

113. Paths or walks on the premises, Brick

114. Area susceptible of profitable cultivation, ½ acre

115. Area cultivated or prepared for cultivation, ____

Boilers - Amer. Ideal Peerless. Sq. Boiler #1-W-8

DWELLINGS FOR KEEPERS—Continued.

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

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,	Southard Robertson			
Stove, size,	8"			
Sink, maker,	—			
Sink, size,	18"x36"x6"			
Pump, maker,	Douglas			
Pump, size,	1/2			
LAMPS. (Give name, number, and make of all lamps in such set of quarters.)	2 Tables 4 hand Electric Light			

WATER FOR FOG SIGNAL, DRINKING, ETC.

118. How procured, Rain from roof & stored in cisterns & underneath

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, No

122. If rain water in tanks or cisterns, what precautions have been taken to insure its purity? Screens & tank cleaning

123. Capacity of tanks or cisterns, and where placed, [illegible]

124. Tanks or cisterns—Of what material made, Brick

WATER FOR FOG SIGNAL, DRINKING, ETC.—Continued.

125. Is there a distilling apparatus at the station? No

Name of maker and date, ;

capacity, ; when installed, ; condition, ;

efficiency,

126. If from a well, describe and give depth, 22 ft

127. Diameter, 2-6"; lined or not, Stone

128. Water obtained by pump or bucket, hand pump

129. Distance from keeper's dwelling, 60 feet

HEALTHFULNESS OF STATION.

130. General opinion in regard to the healthfulness of the light station and vicinity, Healthy

131. Diseases—What are most prevalent at the station and in the vicinity? None

132. Do they prevail at particular seasons of the year, or not? No

133. Are there any local causes, such as swamps, marshes, etc., in the immediate vicinity of the lighthouse which are likely to be the cause of these diseases? No

134. Would draining or other artificial means employed on the lighthouse premises be likely to improve the sanitary condition of the light station? No

BOATS.

135. Furnish following data for each boat at station:

Number.	Type.	Length.	Width.	When Built.	Date Received at Station.	Is Boat Fitted with Sails?	Suited to Work Performed.

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, ...

.....

.....

139. Distance and direction of landing from lighthouse, ...

.....

140. Hoisting engine, what kind?.....;

diameter of cylinder, ...; number of revolutions per minute, ...;

stroke, ...; kind of boiler, ...;

maker and date, ...

141. General Remarks: .....

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