Form 60

Box 12

2-162

First
~~Second~~ LIGHTHOUSE DISTRICT

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

DESCRIPTION

OF

Edgartown

LIGHT STATION

State: Massachusetts.

July 16, 1931

1914

EDGARTOWN
(E)

DESCRIPTION OF LIGHT STATION.

1. By whom described H. L. Bartlett, Jun Engr, date July 16, 1931

STATION.

2. Name of station, Edgartown

3. Characteristic of light, Fixed white

4. Geographical position of light: Latitude, 41° 23' 27"; longitude, 70° 30' 13".

5. Location, On west side of inner end of harbor

PREMISES.

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

7. Date of reservation, deed, lease, or permission to occupy, 1828

8. Area of the entire site, necessary area for bridge and pier; (*b*) area inclosed, 1; (*c*) type of fence, pier; wood

9. Distance of tower from nearest high-water mark, water all around pier

10. Wharf or landing on premises, small landing on side of bridge - foot bridge from light to shore about 1100 ft. long.

11. Means by which the light station may be reached and distance to nearest post office or town, with name, By bridge - Edgartown about 3/4 miles.

12. Tower or other means used for supporting the lantern and apparatus, Tower surmounting roof of dwelling.

13. Number of separate lights, one

14. When first built or established, 1828

DESCRIPTION OF LIGHT STATION.

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PREMISES—Continued.

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

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, 48 feet

17. Background of the lighthouse, upon which it is projected, as seen from seaward, trees, sky and houses

18. Color of tower, and how produced, White-paint

19. Tower—Connected with keeper's dwelling, and how; or detached, surmounts roof of dwelling.

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

21. Materials of which the tower is built, Wood

22. Kind of stairway and steps, Winding

23. Size of glass for glazing tower windows, None

24. Number of windows in tower, and size of sash, None

25. Number and size of doors, None

26. General remarks upon tower and site, Dwelling and outbuildings set on stone pier 40'x45' in plan in about 2'-0" of water at mean low tide.

LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, 4th

28. If polygonal, state number of sides; if cylindrical, state diameter, Polygonal-nine

29. Vertical or helical bars, Vertical; thickness of bars, 1/8"; height glazed, 36"

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

31. Thickness and size of plates, 1/4" x 28" x 36"

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, Cast iron on wood parapet

34. Roof, Cast iron

LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Cast iron

36. Lightning-conductor spindle, yes, copper conductor leading to water

37. Balustrade and outside gallery, yes

38. Lantern doors, and how fitted, yes - hinged

39. Floor of lantern—Of what materials, Wood

40. Watch-room door leading into lantern, and how fitted, Wooden trap door hinged

VENTILATORS.

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

42. Lantern ladders for cleaning plate glass, outside, No

43. Curtain hooks inside of lantern—How fitted, Roll curtains.

WATCH ROOM.

44. How fitted, None

45. Bell wires, speaking tubes, or telephones for calling relief keepers—Kind, —

46. Where led, —

ILLUMINATING APPARATUS, ETC.

47. Kind of apparatus, fixed white; intensity in English candles, 680

48. Name of maker, L. Sautter & Co. France; year made, not known

49. Marks and number on apparatus, None

50. Order of apparatus, 4th; 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, mirror in door

52. **If revolving,** time of revolution, —

(*a*) duration of flash, — sec.; (*b*) duration of eclipse, — sec.

53. **If fixed,** or fixed varied by flashes, state arc of each fixed part in degrees, 90°;

(*a*) duration of fixed light, — sec.; (*b*) eclipse, — sec.; (*c*) flash, — sec.

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ILLUMINATING APPARATUS, ETC.—Continued.

54. Number of panels in the lens apparatus, three (exclusive of mirror)

55. Number of flash panels, —; arc of each, in degrees, —

56. Number of elements in each panel of central drum of lens, five

57. Number of prisms in each panel *above* central drum of lens, 5; are they fixed or flash? Fixed

58. Number of prisms in each panel *below* central drum of lens, 3; are they fixed or flash? Fixed

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, None; and (*b*) the number of elements of fixed lens covered by the panel, —

61. **If light is occulting,** state (*a*) the characteristic, None

(*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 chariot wheels, mercury float, or balls? None

63. **If a chariot,** describe it and state the number and size of each pattern of wheels in it, None

ILLUMINATING APPARATUS, ETC.—Continued.

64. **If on mercury float,** give (*a*) inside diameter of trough, None; (*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, None; (*b*) is a cage used to separate balls? —; (*c*) state number of balls, —; (*d*) 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, Cast iron 37" tall 16" dia. at top

73. Lens protector—Is there one? None; kind, —

74. Draft tube leading into ventilator ball—Of what material, diameter, and how fitted and connected with damper tube when in place, None — cone only

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), —

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LAMPS, BURNERS, ETC.

78. Description of lamp: (*a*) give order, Aladdin lamp (*b*) kind of illuminant, I.O.V.

(*c*) intensity in English candles, 88

If oil, or oil vapor:

(*a*) number of wicks, or mantels, to burner, One wick & one mantel;

(*b*) diameter of outside wick, 1¼"; (*c*) diameter of mantel, 1 5/8";

(*d*) if more than one mantel, also diameter of circumscribing circle, —

If gaslight:

(*e*) state kind, None; (*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*) size of burner in cubic feet of gas per hour, —;

(*k*) consumption of gas per hour, — cubic feet; (*l*) how is gas obtained?

—

If gas is generated at station:

(*m*) describe generator, None;

(*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, None; 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, None

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CLOSETS IN TOWER.

81. How fitted and used, None

OIL HOUSE OR ROOM.

82. Describe (*a*) where placed and how fitted, At side of bridge 125 ft. 275°
(*b*) inside dimensions, 8'-8" x 10'-8"; (*c*) materials of which built, bricks;
(*d*) capacity in 5-gallon cans, about 450 - 1 Bulk kerosene tank 450 gals capacity.

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, Fuel house at south and tank house on East side of dwelling.

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

FOG SIGNAL.

85. Kind and character of apparatus, Bell struck by machinery

86. How much time is required to sound the signal? 5 secs.; how long may the signal sound its characteristic ~~with the quantity of air stored under pressure~~ with one winding? about 8 hrs.

87. Characteristic:

If whistle, trumpet, or siren:

Blast — sec.	Silent — sec.	Blast — sec.	Silent — sec.

If bell:

1 strokes	Silent 15 sec.	1 strokes	Silent 15 sec.

88. What parts of the fog-signal machinery are in duplicate? None

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

90. Distance and direction, true, from lighthouse, Attached to S.E. corner of dwelling.

91. Water supply for it, None

92. How is it reached from the lighthouse Covered way attached to dwelling

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FOG SIGNAL—Continued.

93. Description of fog-signal building or buildings, Square tower on corner of dwelling.

94. **If a bell,** state (*a*) weight, 1086 lbs.; (*b*) metal Bell metal; (*c*) diameter, 36; (*d*) height, 28; (*e*) if struck by clockwork, state time it will run with one winding, 8 hrs; (*f*) maker and date, Mannly & Co. - date not known; (*g*) weights for operating, — lbs.

95. **If a steam signal,** describe boiler: (*a*) type, None; (*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, None; (*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, None;
(*b*) maker, —;
(*c*) date, —; (*d*) nominal size, —; (*e*) horsepower, —;
(*f*) fuel used, —; (*g*) how started, —;
(*h*) kind of compressor, —; (*i*) maker and date, —

State if compressor is on same bed and geared with engine, or separate and belt-driven, or both pistons on same rod, —; if geared or belt-driven, state ratio, —

Describe compressor machinery, (*a*) diameter of cylinder, —; (*b*) stroke of piston, —; (*c*) number of revolutions per minute, —; (*d*) character and size of air-inlet valves, —; (*e*) kind of unloader, —; (*f*) diameter of delivery pipe, —

FOG SIGNAL—Continued.

98. (*a*) Number air receivers, —; (*b*) diameter, —; (*c*) height, —; (*d*) capacity cubic feet, each, —; (*e*) pressure in each, —; (*f*) make of reducing valve, if used, —; (*g*) remarks, —

99. **If whistle, trumpet, or siren,** pressure at which blown, —

100. Diameter of whistle, —; height, —; distance between orifice and edge of whistle, —; single tone, —; chime, —

101. **If disk or cylindrical siren,** None; 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, —

102. **If Daboll trumpet:** Class, None; reed: length, —; breadth, —; thickness at base, —; thickness at tip, —

103. **If trumpet:** Length, None; diameters, —; material, —

104. Timing device, —

105. Height of whistle or trumpet above mean high water, —

106. Direction, *true*, in which trumpet points, —

107. Pressure and recording gauge, —

DWELLINGS FOR KEEPERS.

108. Location with reference to lighthouse tower, Dwelling surmounted by tower

109. Coloring, White, lead color trimmings

110. Materials of which built, Wood

111. Number of dwellings, One; number of rooms in ~~each~~ dwelling, eight

112. Describe heating plant, Direct hot water

113. Number of keepers ~~and assistants in each~~ dwelling, One

114. Which keepers are furnished quarters? Keeper

115. Which keepers are not furnished quarters? None

116. Outhouses, Fuel and tank houses; coloring, white

117. Paths or walks on the premises, Foot bridge to shore - about 3/4 mile

118. Area susceptible of profitable cultivation, —; area cultivated or prepared for cultivation, —

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DWELLINGS FOR KEEPERS—Continued.

119. Character of adjacent surrounding country—Soil, sandy, clay, marsh, swamp, wood, fast ground, or shifting sands, Sandy loam

120. 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,	Howes-Monarch Premier			
Stove, size,	No. 7-18			
Sink, maker,	not known			
Sink, size,	23"x48"			
Pump, maker,	City Water			
Pump, size,				
Lamps. (Give name, number, and make of all lamps in such set of quarters.)	2 hand lamps and 1 brass table from General Depot.			

WATER FOR FOG SIGNAL, DRINKING, ETC.

121. How procured, Town supply in warm weather tanks supply during cold weather.

122. Quality, good.

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

124. Liable or not to be injured by the inroads of storm tides and seas, no

125. If rain water in tanks or cisterns, what precautions have been taken to insure its purity? Turn off before each rain until roof has been thoroughly washed.

126. Capacity of tanks or cisterns, and where placed, About 2000 gals.

127. Tanks or cisterns—Of what material made, Wood

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

128. Is there a distilling apparatus at the station? None

Name of maker and date, —;

capacity, —; when installed, —; condition, —;

efficiency, —

129. If from a well, describe and give depth, None

130. Diameter, —; lined or not, —

131. Water obtained by pump or bucket, —; what power is used? —

132. Distance from keeper's dwelling, —

HEALTHFULNESS OF STATION.

133. General opinion in regard to the healthfulness of the light station and vicinity Healthful

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

135. Do they prevail at particular seasons of the year, or not? —

136. 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

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

BOATS.

138. Furnish following data for each boat at station: None

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

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BOATS—Continued.

139. If power boat, kind of engine, None; 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, ...

140. Where are boats kept at station? .....

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

141. Description, Small landing on south side of footbridge footbridge leading to beach, no boathouse town highway from end of footbridge to postoffice.

142. Distance and direction of landing from lighthouse, Southwest corner of pier about 20 feet.

143. Hoisting engine, what kind? None;

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

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

maker and date, ...

144. General Remarks: Buildings, apparatus and footbridge in good condition.

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Geo. E. Eaton.

Superintendent