1-113

Form 60

Superseded No. 29

First LIGHTHOUSE DISTRICT

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

1935 AUG 22 PM 3.30

DESCRIPTION

OF

MARSHALL POINT

LIGHT STATION

State: Maine

Corrected to May 1, 1935

1914

INSTRUCTIONS

This form is to be filled out for new stations as established, and for present stations which have not heretofore been described. When changes are made at existing stations affecting the description previously given, pages containing the revised data should be promptly forwarded. The use of this form should be limited to stations having resident keepers.

DESCRIPTION OF LIGHT STATION.

1. By whom described Thomas Sampson, Asst. Superintendent, date May 1, 1935

STATION.

2. Name of station, Marshall Point

3. Characteristic of light, Fixed white

4. Geographical position of light: Latitude, 43 ° 55′ 03″; longitude, 69 ° 15′ 42″.

5. Location, On the southwesterly end of Marshall Point, Maine, easterly side of the southerly entrance to Port Clyde 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, June 25, 1831

8. Area of the entire site, 5.634 acres to mean high water; (*b*) area inclosed, Whole area; (*c*) type of fence, Wire fence

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

10. Wharf or landing on premises, Boat slip

11. Means by which the light station may be reached and distance to nearest post office or town, with name, Steamboat to Port Clyde, Maine, auto to station, or railroad to Thomaston, Maine, auto to station--one mile to Port Clyde

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

13. Number of separate lights, 1

14. When first built or established, 1832

PREMISES—Continued.

15. When last thoroughly rebuilt, repaired, or renovated, 1858

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, 29½ ft.

17. Background of the lighthouse, upon which it is projected, as seen from seaward, Low land covered with spruce trees

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

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

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, Granite and brick

22. Kind of stairway and steps, Open work, cast iron

23. Size of glass for glazing tower windows, No windows

24. Number of windows in tower, and size of sash, No windows

25. Number and size of doors, One

26. General remarks upon tower and site, Tower is solid granite and concrete up 12 feet from base and is connected with shore by wooden bridge, with stone piers, bridge is 100 ft. long and painted white.

LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, 5th Order

28. If polygonal, state number of sides; if cylindrical, state diameter, Polygonal--7 feet

29. Vertical or helical bars, Vertical; thickness of bars, ; height glazed, 35½"

30. Number of plates in height, 1; in each side, 1

31. Thickness and size of plates, ¼"--35⅜" x 26½"

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, glass, and wood

34. Roof, Cast iron made in ten sections, flanged and bolted on inside, and lined with zinc.

LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Cast iron

36. Lightning-conductor spindle, Bronze with three pronged copper tip

37. Balustrade and outside gallery, One rail 1½" x ½" with 8 steel posts 1" diameter, outside gallery; cast iron 24" wide

38. Lantern doors, and how fitted, Cast iron 32½" x 22½", ½" thick

39. Floor of lantern—Of what materials, Cast iron

40. Watch-room door leading into lantern, and how fitted, None

VENTILATORS.

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

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

43. Curtain hooks inside of lantern—How fitted, Knobs screwed into sash bars. Curtains hung by rings.

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.

47. Kind of apparatus, _____; intensity in English candles, _____

48. Name of maker, None given on lens; year made, Not known

49. Marks and number on apparatus, None

50. Order of apparatus, 5th Order; inside diameter (inscribed circle, tangent to glass) of central drum, 14½"

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, _____

(*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, 351°;

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

ILLUMINATING APPARATUS, ETC.—Continued.

54. Number of panels in the lens apparatus, Four

55. Number of flash panels, ____; arc of each, in degrees, 90°

56. Number of elements in each panel of central drum of lens, 5

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

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

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 chariot wheels, 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, _____; (*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*) 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,** Hollow cast iron flaring at top and bottom stands 3' 9½" high

73. **Lens protector—Is there one?** _____; **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), _____

LAMPS, BURNERS, ETC.

Haines 5th Order

78. Description of lamp: (*a*) give order, 200 c.p. Elec. Lamp (*b*) kind of illuminant, _____

(*c*) intensity in English candles, 200 c.p.

If oil, or oil vapor:

(*a*) number of wicks, or mantels, to burner, 1 wick--wick lamp for standby;

(*b*) diameter of outside wick, _____; (*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*) 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, _____;

(*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, Two in use, one spare

80. Number of spare lamp burners at station, Two in use, one spare

CLOSETS IN TOWER.

81. How fitted and used, None

OIL HOUSE OR ROOM.

82. Describe (*a*) where placed and how fitted, Stone oil house, 155 feet from dwelling on easterly side, has one door, ventilator in each end, slate roof.
(*b*) inside dimensions, ; (*c*) materials of which built, ;
(*d*) capacity in 5-gallon cans, Fitted with two 139 gal. tanks for kerosene in bulk

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, Closet in covered way, fitted with three shelves and used for lamps and supplies

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

FOG SIGNAL.

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

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

87. Characteristic: Single blow every 20 seconds

If whistle, trumpet, or siren:				If bell:			
Blast ___ sec.	*Silent* ___ sec.	*Blast* ___ sec.	*Silent* ___ sec.	___ *strokes*	*Silent* ___ sec.	___ *strokes*	*Silent* ___ sec.

88. What parts of the fog-signal machinery are in duplicate? Equalizing spring. Duplicates of all parts in Machine Shop, Portland, which can be promptly forwarded.

89. Location, with reference to lighthouse, to a particular danger or channel, or to the special object for which established, Established as guide to St. George Harbor, Maine, and through Davis Straight

90. Distance and direction, true, from lighthouse, 115 feet NE from tower

91. Water supply for it, None

92. How is it reached from the lighthouse? Bridge and plank walk

FOG SIGNAL—Continued.

93. Description of fog-signal building or buildings, White pyramidal tower, shingled all over

94. If a bell, state (*a*) weight, 1,018 lbs.; (*b*) metal, Bell metal; (*c*) diameter, 36"; (*d*) height, 30"; (*e*) if struck by clockwork, state time it will run with one winding, 4½ hours; (*f*) maker and date, George H. Stevens, Boston, Mass.; (*g*) weights for operating, ____ lbs.

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, ____;
(*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, _____; 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, _____; reed: length, _____; breadth, _____; thickness at base, _____; thickness at tip, _____

103. If trumpet: Length, _____; 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, 165 feet NE

109. Coloring, White with lead trimmings

110. Materials of which built, Wood

111. Number of dwellings, _____; number of rooms in each, Six

112. Describe heating plant, Gurney Hot Water Heater #21 (Lennox)

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

114. Which keepers are furnished quarters? _____

115. Which keepers are not furnished quarters? _____

116. Outhouses, Barn close to dwelling on northeasterly side; coloring, White—lead trimmings

117. Paths or walks on the premises, Board walks connect dwelling with tower, bell tower, and barn

118. Area susceptible of profitable cultivation, 1 acre; area cultivated or prepared for cultivation, 1 acre

DWELLINGS FOR KEEPERS—Continued.

119. Character of adjacent surrounding country—Soil, sandy, clay, marsh, swamp, wood, fast ground, or shifting sands, Fast ground covered with spruce trees

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,	Royal Atlantic Kitchen Range			
Stove, size,				
Sink, maker,				
Sink, size,				
Pump, maker,				
Pump, size,				
LAMPS. (Give name, number, and make of all lamps in such set of quarters.)				

WATER FOR FOG SIGNAL, DRINKING, ETC.

121. How procured, Rain water, caught on roof

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? Cistern cleaned twice a year

126. Capacity of tanks or cisterns, and where placed, 1,500 gals.--in cellar

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

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, _____

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, _____

Very 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? No

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:

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

BOATS—Continued.

139. 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, ____

140. Where are boats kept at station? ____

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

141. Description, Boat house is white wooden building 35 feet from dwelling on southwesterly side

142. Distance and direction of landing from lighthouse, North from tower 120 feet

143. Hoisting engine, what kind? Handwinch;
diameter of cylinder, ____; number of revolutions per minute, ____;
stroke, ____; kind of boiler, ____;
maker and date, ____

144. General Remarks: There is a signal service flagstaff 85 feet NE from dwelling. Weather Bureau storm warning tower adjacent to station. 2--139 gal. tanks for kerosene in bulk.