Pigeon Pt. Cal

Form 60

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H119

18TH LIGHTHOUSE DISTRICT

Department of Commerce and Labor

LIGHTHOUSE SERVICE

DESCRIPTION

OF

PIGEON POINT

LIGHT STATION

State: California

March 1, 1911

DESCRIPTION OF LIGHT STATION.

1. By whom described Howard Cox, Master Mechanic, date March 1, 1911.

STATION.

2. Name of station, Pigeon Point Light Station.

3. Characteristic of light, Flashing White every 10 seconds.

4. Geographical position of light: Latitude, 37° 10' 56"; longitude, 122° 23' 36".

5. Location, Sea coast of California, 37 miles southerly from San Francisco, in San Mateo County, Cal.

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, May 18th 1870

8. Area of the entire site, 10½ Acres; (*b*) area inclosed, 10½ Acres; (*c*) type of fence, Picket.

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

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, By surf boat from Tender, by tri-weekly stage between Santa Cruz and Pescadero Private rig from Swanton 15 miles south.

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

13. Number of separate lights, One.

14. When first built or established, 1871.

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, 148 ft

17. Background of the lighthouse, upon which it is projected, as seen from seaward, Rolling hills, farming land and meadow.

18. Color of tower, and how produced, White; white wash

19. Tower—Connected with keeper's dwelling, and how; or detached, Detached, but with watch and oil rooms attached at base.

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

21. Materials of which the tower is built, Brick, iron & cement

22. Kind of stairway and steps, Cast iron checkered steps.

23. Size of glass for glazing tower windows, Parapet 8¾" x 15" Tower 10" x 12"

24. Number of windows in tower, and size of sash, Seven.

25. Number and size of doors, Five.

26. General remarks upon tower and site, _____

LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, First order.

28. Polygonal with number of sides, or cylindrical with diameter, Polygonal, sixteen sides

29. Vertical or helical bars, Vertical; height glazed, 9'-10"

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

31. Thickness and size of plates, ¼" 28⅛" x 45" Top, 28⅛" x 39¼" center, 28⅛" x 30¾" bottom

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, Brass and iron

34. Roof, Copper

LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Cast iron, 28" diam.

36. Lightning-conductor spindle, None

37. Balustrade and outside gallery, Cast iron plates; rail of 2½" x 1½" iron, 1" tapered rods for uprights.

38. Lantern doors, and how fitted, None

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, one iron ladder, movable

43. Curtain hooks inside of lantern—How fitted, Spring shade rollers. Hartshorn.

WATCH ROOM.

44. How fitted, One chair, one small leaf table

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

46. Where led, To quarters of each keeper and to signal.

ILLUMINATING APPARATUS, ETC.

47 Kind of apparatus, Flashing (1,1,1); intensity in English candles, 160,000

48. Name of maker, Henry Lapute; year made, No date.

49. Marks and number on apparatus, None

50. Order of apparatus, First order; inside diameter (inscribed circle, tangent to glass) of central drum, 5'-11½"

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, Four minutes.

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, Twenty-four.

55. Number of flash panels, 24; arc of each, in degrees, 15

56. Number of elements in each panel of central drum of lens, 17

57. Number of prisms in each panel *above* central drum of lens, 17

58. Number of prisms in each panel *below* central drum of lens, 8

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? Chariot.

63. **If a chariot,** describe it and state the number and size of each pattern of wheels in it, 10 brass wheels, spherical tread 5⅞" dia; with steel spindles with ball thrust bearing on outer end.

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*) state number of balls, ...; (*c*) diameter of balls, ...

66. Clock cord or chain, kind, Wire cord; size, 3/8" dia.; length, ...; how led, ...; diam. and length of clock drum, ...

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

68. Length of time clock will run after one winding, Four and one half hours

69. Does clock drive apparatus while being rewound? .....

70. How is the machinery protected? Glass case, with doors.

71. How regulated? Adjustable centrifugal fan governor, and by changing weights.

72. Describe the pedestal, Cast iron, 3'-5"; dia. at base & top 30 inches.

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, 5" brass tube fitted with set screws.

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.

78. Description of lamp: (*a*) give order, 1st order, Type A; (*b*) kind of illuminant, Fail.

(*c*) intensity in English candles, 1,000

If oil, or oil vapor:

(*a*) number of wicks, or mantels, to burner, one;

(*b*) diameter of outside wick, ~; (*c*) diameter of mantel, 55 mm.;

(*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, One

80. Number of spare lamp burners at station, ~

CLOSETS IN TOWER.

81. How fitted and used, None.

OIL HOUSE OR ROOM.

82. Describe (*a*) where placed and how fitted, Attached to base of Tower. Wood shelves.
(*b*) inside dimensions, 15'-6" x 9'-6" x 10'-9" (*c*) materials of which built, Brick;
(*d*) capacity in 5-gallon cans, 608;

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, Base of Tower, opposite oil room, fitted with shelves & lockers, used for lamp supplies & spare parts.

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, Gas engine, belt driven Air Compressor. 14" "A" Crosby automatic — 6" cylindrical siren.

86. How much time is required to sound the signal? Four minutes; 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	Silent	Blast	Silent	strokes	Silent	strokes	Silent
~~4~~ 2 sec.	~~7~~ 6 sec.	~~4~~ 2 sec.	~~45~~ 20 sec.		sec.		sec.

88. What parts of the fog-signal machinery are in duplicate? All parts except fuel tank.

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

90. Distance and direction, true, from lighthouse, 100 ft. westerly.

91. Water supply for it, 2-30,000 gal. wood tanks filled from rain shed.

92. How is it reached from the lighthouse? Cement walks.

FOG SIGNAL—Continued.

93. Description of fog-signal building or buildings, Frame building 32'x30' ~~33'x31'~~ inside, Truss roof, outside sheathing 8" V rustic, carried horizontal, inside, 1"x4" t&g ceiling. White paint, lead trimmings; 2 large & 3 small windows, sea end. Double door, 2 windows, transom & small window land end.

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, Horizontal gasolene.; (*b*) maker, Doak Gas Engine Company.; (*c*) date, 1910.; (*d*) nominal size, 7½"x14".; (*e*) horse power, 20.; (*f*) fuel used, Gasolene.; (*g*) how started, by hand.; (*h*) kind of compressor, Horiz., poppet valve (*i*) maker and date, Dow Pumping Engine Co. 1910.

State if compressor is on same bed and geared with engine, or separate and belt-driven, Separate and belt driven — 10 ft. centers.

Describe compressor machinery, See attached sheet.

FOG SIGNAL—Continued.

98. **If whistle, trumpet, or siren,** pressure at which blown, Siren, 36 lbs.

99. Diameter of whistle, ____; height, ____; distance between orifice and edge of whistle, ____; single tone, ____; chime, ____

100. **If disk or cylindrical siren,** Cylindrical; diameter of revolving part, 6"; when made, 1910; by whom made, General Depot; number, width, and length of ports, 20 - 3/32" x 2 3/4"; revolutions per minute, ____; type of governor, friction blocks; condition of revolving part, good.

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, About 200 ft. Northerly.

107. Coloring, White walls, red roof, lead trimmings.

108. Materials of which built, Wood.

109. Number of rooms in each dwelling, 2 - 5 rooms & bath 2 - 4 rooms & bath.

110. Number of keepers and assistants to each dwelling, 1 to each.

111. Outhouses, 1 double wash house, 1 barn & chicken house, store room & carpenter shop, blacksmith shop, tank house

112. Coloring, Tank house red, others white with red roofs.

113. Paths or walks on the premises, 3 ft. cement walks between all buildings.

114. Area susceptible of profitable cultivation, About 5 acres.

115. Area cultivated or prepared for cultivation, None.

DWELLINGS FOR KEEPERS—Continued.

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

118. How procured, From rainshed about 1800 ft. N. of Station.

119. Quality, Poor, due to broken rain shed.

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

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? Tanks covered. [1-15,000 gal. tank; 1-60,000 gal cistern above rain shed

123. Capacity of tanks or cisterns, and where placed, 2-30,000 gal tanks at Signal.

124. Tanks or cisterns—Of what material made, Tanks, redwood. Cistern, cement.

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, Well for watering live stock at lower end of rain-shed.

127. Diameter, about 6 ft.; lined or not, lined with brick

128. Water obtained by pump or bucket, Windmill pump.

129. Distance from keeper's dwelling, 1700 ft.

HEALTHFULNESS OF STATION.

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

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? None.

134. Would draining or other artificial means employed on the lighthouse premises be likely to improve the sanitary condition of the light station? New rainshed further up hill would give better quality of water — but would require additional land —

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, Beach about 300 ft. "E" from station on Coburn estate, where surf boat can land in fair weather. Material hoisted from boat to top of bank by boom derrick. Charge of $.75 to $1.00 per ton for landing material. Govt. supplies labor.

139. Distance and direction of landing from lighthouse, 300 ft easterly

_____

140. Hoisting engine, what kind? None. Use capstan or team.;

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

stroke, _____; kind of boiler, _____;

maker and date, _____

141. General Remarks: _____

3/14/23 Wind Mill Point 2½" L. The Govt. "Seneca Co." N.Y. Fig 1377-1877A.
1/25/23 Pub. 1791. Fig. 11-1915. 10' Bch. L. Horse Windmill, owned by Mr Cavilton.

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