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LIGHT HOUSE INSPECTOR
MAY 22 1917
SAN LUIS O

Form 60

LIGHTHOUSE DISTRICT

DEPARTMENT OF COMMERCE
LIGHTHOUSE SERVICE

DESCRIPTION

OF

SAN LUIS OBISPO

LIGHT STATION

State:

, 1917

1914

DESCRIPTION OF LIGHT STATION.

1. By whom described _____, date _____

STATION.

2. Name of station, _____

3. Characteristic of light, _____

4. Geographical position of light: Latitude, _____° _____′ _____″; longitude, _____° _____′ _____″.

5. Location, _____

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, 30 Acres; (*b*) area inclosed, 30 Acres; (*c*) type of fence, Post and wire

9. Distance of tower from nearest high-water mark, 228 feet

10. Wharf or landing on premises, 1 Wharf on east side of reservation 1500 feet from fog signal

11. Means by which the light station may be reached and distance to nearest post office or town, with name, About one mile to Port San Luis By boat or foot path Also by wagon but road is steep and rough

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

13. Number of separate lights, One

14. When first built or established, 1890

PREMISES—Continued.

15. When last thoroughly rebuilt, repaired, or renovated, Not 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, 130 feet

17. Background of the lighthouse, upon which it is projected, as seen from seaward, High hill 701 feet

18. Color of tower, and how produced, White Lead colored trimmings Black lantern

19. Tower—Connected with keeper's dwelling, and how; or detached, Connected to S. W. corner of keepers dwelling

20. Purpose of aid—Seacoast, lake coast, bay, harbor, channel, or range; for general or local navigation, California sea coast in general Entrance to San Luis Bay in particular

21. Materials of which the tower is built, Wood

22. Kind of stairway and steps, Winding wooden stairs to watch room from watch room to tower steps and ladder

23. Size of glass for glazing tower windows, 10" x 14" and 10" x 16"

24. Number of windows in tower, and size of sash, 6 windows

25. Number and size of doors, One wooden door 7' x 34" 1 double iron door 24" x 28"

26. General remarks upon tower and site,

LANTERN AND LANTERN FIXTURES.

27. Order or class of lantern, Fourth

28. If polygonal, state number of sides; if cylindrical, state diameter, 8 sides

29. Vertical or helical bars, Vertical; thickness of bars, 1 1/2"; height glazed, 36"

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

31. Thickness and size of plates, 3/8" thick 35 3/4" by 33 5/8"

32. Unglazed side of lantern in plates and degrees of arc, Glazed all around; between what bearings (true and from seaward),

33. Materials of which the lantern is constructed, Iron and Brass

34. Roof, Iron

LANTERN AND LANTERN FIXTURES—Continued.

35. Ventilator ball, Iron

36. Lightning-conductor spindle, None

37. Balustrade and outside gallery, 2' gallery around tower Wooden balustrade

38. Lantern doors, and how fitted, Double iron doors hinged to outside of wall

39. Floor of lantern—Of what materials, Wood

40. Watch-room door leading into lantern, and how fitted, Trap door

VENTILATORS.

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

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

43. Curtain hooks inside of lantern—How fitted, Screwed into wall

WATCH ROOM.

44. How fitted, Fitted with table and locker

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

46. Where led, Dwellings, Signal and Tower, All connected

ILLUMINATING APPARATUS, ETC.

47. Kind of apparatus, Oil vapor lamp, and lens; intensity in English candles, _____

48. Name of maker, Sautter Lemmonier & Cie; year made, 1878

49. Marks and number on apparatus, No. 325, 1878

50. Order of apparatus, Fourth; inside diameter (inscribed circle, tangent to glass) of central drum, 20"

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, 3 minutes and 20 seconds

(*a*) duration of flash, 4 sec.; (*b*) duration of eclipse, 16 sec.

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

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

ILLUMINATING APPARATUS, ETC.—Continued.

54. Number of panels in the lens apparatus, 10

55. Number of flash panels, 10; arc of each, in degrees, 36

56. Number of elements in each panel of central drum of lens, 4

57. Number of prisms in each panel *above* central drum of lens, 6; are they fixed or flash? flash

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

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 chariot wheels, mercury float, or balls? wheels

63. **If a chariot,** describe it and state the number and size of each pattern of wheels in it, 21" track 6 4" wheels with 6 1 1/8" guide wheels

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, Clock Cord; size, 3/8"; length, 31'; how led, Down center of tower to watch room floor; diam. and length of clock drum, 4" x 6"

67. Length and inside dimensions of drop tube or weight box, 6½" × 7½" × 4'; clock weight, About 100 pounds.

68. Length of time clock will run after one winding, 2 hours 40 minutes

69. Does clock drive apparatus while being rewound? No

70. How is the machinery protected? By metal frame work with glass panes

71. How regulated? By weights and by governor

72. Describe the pedestal, 43" from floor to lamp stand

73. Lens protector—Is there one? Yes; kind, Brass funnel

74. Draft tube leading into ventilator ball—Of what material, diameter, and how fitted and connected with damper tube when in place, 8" galvanized pipe screwed to lantern ceiling material

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, Fourth; (*b*) kind of illuminant, Oilvapor

(*c*) intensity in English candles, _____

If oil, or oil vapor:

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

(*b*) diameter of outside wick, _____; (*c*) diameter of mantel, 1¼";

(*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, One Mick lamp. 2 oil vapor lamps

80. Number of spare lamp burners at station, 3 " "

CLOSETS IN TOWER.

81. How fitted and used, One on main floor used for stores
One in match room used for service supplies

OIL HOUSE OR ROOM.

82. Describe (*a*) where placed and how fitted, 70 feet south of tower fitted with shelves
(*b*) inside dimensions, 8'x 10'-6"; (*c*) materials of which built, Brick, Iron doors
(*d*) capacity in 5-gallon cans, 960 gallons

CLOSETS AND STOREROOMS.

83. Where placed, how fitted and used, In fog signal building
used for tools and other supplies

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

FOG SIGNAL.

85. Kind and character of apparatus, Gasoline engines and
compressed air sirens

86. How much time is required to sound the signal? 5 minutes how long may the signal sound its characteristic with the quantity of air stored under pressure? Will not carry pressure

87. Characteristic:

If whistle, trumpet, or siren:				If bell:			
Blast	Silent	Blast	Silent	strokes	Silent	strokes	Silent
4 sec.	36 sec.	4 sec.	36 sec.		sec.		sec.

88. What parts of the fog-signal machinery are in duplicate? Engines Sirens
and crosby clocks

89. Location, with reference to lighthouse, to a particular danger or channel, or to the special object for which established, Coast navigation in general
and for entrance to San Luis Bay particularly

90. Distance and direction, true, from lighthouse, Fog signal 100 feet S E of tower

91. Water supply for it, Rain water and creek water

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

FOG SIGNAL—Continued.

93. Description of fog-signal building or buildings, Frame building 26'X 30' with 14" walls Roof supported by 3 trusses small rooms at each side of main building 13'X 13' Shed on west side near Signal 19'X 32'

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, ...; (*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, Gasoline; (*b*) maker, Hoak Gas Engine Co; (*c*) date, ...; (*d*) nominal size, ...; (*e*) horsepower, 15; (*f*) fuel used Distillate; (*g*) how started, with magneto; (*h*) kind of compressor, None; (*i*) maker and date, Gas. E. None

State if compressor is on same bed and geared with engine, or separate and belt-driven, or both pistons on same rod, Separate with belt; if geared or belt-driven, state ratio, 28" X 39½"

Describe compressor machinery, (*a*) diameter of cylinder, 6 inch; (*b*) stroke of piston, 7 inch; (*c*) number of revolutions per minute, 160; (*d*) character and size of air-inlet valves, 2½"; (*e*) kind of unloader, Mights; (*f*) diameter of delivery pipe, 2½"

Engines { #414-E 415-14

FOG SIGNAL—Continued.

98. (*a*) Number air receivers, One; (*b*) diameter, 4'; (*c*) height, 12'; (*d*) capacity cubic feet, each, ____; (*e*) pressure in each, 35; (*f*) make of reducing valve, if used, ____; (*g*) remarks, ____

99. **If whistle, trumpet, or siren,** pressure at which blown, Siren 35 lbs

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

101. **If disk or cylindrical siren,** Cylindrical; diameter of revolving part, 6"; when made, ____; by whom made, W. T. Garratt; number, width, and length of ports, 2d - 3" × 1/4"; 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, Double dwelling 150' eastward One adjoining tower

109. Coloring, White with lead colored trimmings Roofs red

110. Materials of which built, Wood

111. Number of dwellings, 3; number of rooms in each, 6 with closets and bath

112. Describe heating plant, Stove in kitchen Fireplace in 2 lower rooms

113. Number of keepers and assistants in each dwelling, Keepers in one 2 Asst in double dwelling

114. Which keepers are furnished quarters? Keeper and two assistants

115. Which keepers are not furnished quarters? ____

116. Outhouses, Barn Outside toilets 3 wash rooms; coloring, White lead color trimmings

117. Paths or walks on the premises, Between dwellings Between signal and tower

118. Area susceptible of profitable cultivation, 6 acres; area cultivated or prepared for cultivation, 3 acres

DWELLINGS FOR KEEPERS—Continued.

119. Character of adjacent surrounding country—Soil, sandy, clay, marsh, swamp, wood, fast ground, or shifting sands, Loose rock and clay very hilly

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,	Eureka	Eureka	Eureka	
Stove, size,	no 7.	no 7.	no 7	
Sink, maker,	Dalzell & Moller	Dalzell & Moller	Dalzell & Moller	
Sink, size,	16" x 28"	16" x 28"	16" x 28"	
Pump, maker,				
Pump, size,				
Lamps. (Give name, number, and make of all lamps in such set of quarters.)	One Hand lamp One Table lamp 6th order	One Hand lamp One Table lamp 6th order	One Hand lamp One Table lamp 6th order	

WATER FOR FOG SIGNAL, DRINKING, ETC.

121. How procured, Rain water and from creek by 4 mile pipe line

122. Quality, Creek water is hard

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, Not especially

125. If rain water in tanks or cisterns, what precautions have been taken to insure its purity? Rain water is kept in 2 - 500 gallon cisterns between dwellings

126. Capacity of tanks or cisterns, and where placed, 2 cisterns between dwellings

127. Tanks or cisterns—Of what material made, 500 gallon tanks of brick (or cisterns)

One good 10,000 gal: tank, One old, Tanks of wood

One 10,000 gal: circulating tank for signal

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, 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:

Number.	Type.	Length.	Width.	When Built.	Date Received at Station.	Is Boat Fitted with Sails?	Suited to Work Performed.
1	Skiff	14'	4'-6"	no record	Oct. 1902	no	Yes
2	Double ender	16	6'-10"	no record	no record	Yes	No

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? At the wharf

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

141. Description, Wharf is 1600 feet from buildings with a good road between Small boat house on one corner of wharf There is a hoisting engine on wharf

142. Distance and direction of landing from lighthouse, East, 1600 feet

143. Hoisting engine, what kind? Hanshan Bulkley and Co.;

diameter of cylinder, 5" ; number of revolutions per minute, 160;

stroke, 8" ; kind of boiler, Zegerwood ;

maker and date, Zegerwood No date No. 23314

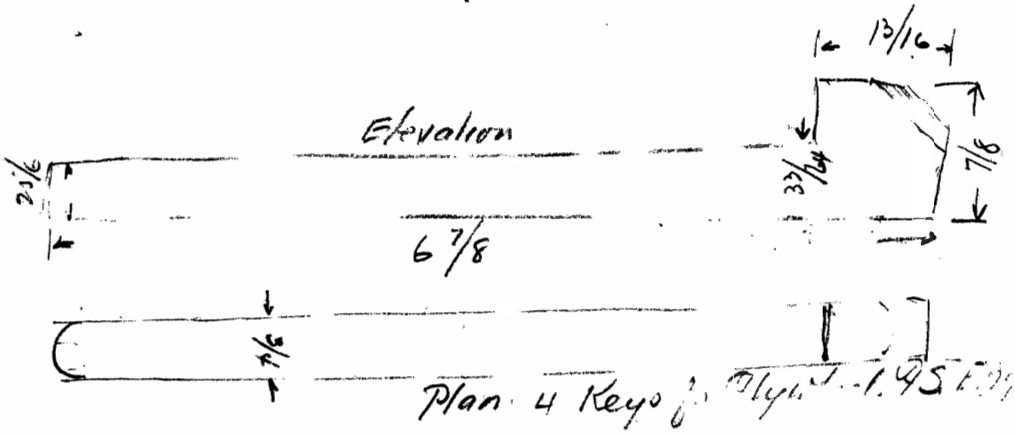
144. General Remarks:

William J. Smith

Keeper

-28-19.
Dm[illegible] at Lanc[illegible]
Ledgewood" #23314. Ledgewood [illegible] Co. 96 [illegible]
Kpro Reg. [illegible] 17-1017. Sta[illegible]. 40 tubes 2" × 44 3/4" long.

1-24-22
D[illegible] #86. Champion [illegible] Co. Lancaster, Pa.,
1 7/16" [illegible] Strip.



Plan 4 Keys [illegible] P.O 805 Feb 17-20