Encl. 63 6th Eng.

No. 36.

Sixth Lt. H. DISTRICT.

11

RECEIVED
DEC 2 1885
LIGHT HOUSE BOARD

DESCRIPTION

OF

LIGHT-HOUSE TOWER, BUILDINGS, AND PREMISES

AT

Fort Jackson Range, Ga.

Front Beacon.

November 21st, 1885.

Noted 3 Dec. '85

NAME AND POSITION OF THE LIGHT-HOUSE AND LIGHT-STATION.

Port Jackson Range.
Front Beacon,
Savannah River, Ga.

By whom described. B. B. Smith, Asst. Engineer

Date of description, November 21st, 1885

Distinguishing character of light or lights. Fixed Red.

Latitude of tower. N. 32°. 05' (12")
Longitude of tower. W. 81°. 01' (22")
Authority. U.S. Coast Survey Chart.

PREMISES—A DETAILED DESCRIPTION OF, EMBRACING—

Area of the entire site. One half (½) acre.

Character of surface soil. Clay.

Distance of tower from nearest high-water mark. Beacon is in rice field sometimes flooded at high water.

Enclosures to premises. None.

Wharf or landing on premises. Boat landing

Road to landing or wharf, character of, and distance from tower. Plank walk crossing a rice field bank and connects beacon with landing 100 feet distant.

Means by which the light-station may be reached. By railroad and steamboat to Savannah thence by hired boat.

Distance to the nearest public road, railroad station, or steamboat landing, and to which Three (3) miles to Savannah River.

Tower or other means used for supporting the lantern and apparatus. Triangular iron skeleton structure

Number of separate lights. One light

When first built or established. 1884.

When last thoroughly rebuilt, repaired, or renovated. Never.

Condition at this date. Good

Shape of tower in plan. Triangular.

Height of tower from base to cowl of lantern. 31 feet

Height of focal plane of lantern above the mean sea or lake level. 33 feet

Back ground of the light-house, upon which it is projected, as seen from the sea or lake. Lower half woods - Upper half sky.

Color of tower. Brown.

Color of tower, how produced. Paint.

Tower—connected with keepers' dwelling, and how, or detached. No dwelling

Object: sea-coast, lake-coast, bay, harbor, channel, or range; for general or local navigating purposes. One of a range to guide past the "obstructions" near West end of Elba Id.

Materials of which the tower is built.

General description, embracing—

Thickness of walls at base.

Thickness of walls at parapet.

Diameter of tower at base. 13' 6" from center to center of disks.

Diameter of tower at parapet.

Kind of stairway and steps. Iron Ladder.

Number of landings of stairway. None.

Size of glass for glazing tower windows.

Number of windows in tower, and size of sash.

Number of doors.

Kind of foundation and depth below the surface. Foundation consists of 3 piles 20' long upon which are fastened cap timbers so that their top surfaces are 6" below standing water. Three brick piers rise from the top of the caps. The anchor plates are below the caps and the anchor bolts pass through the piers to the disks.

Character of soil at and surrounding the light-house.

Clay and Mud.

Soil susceptible of being protected by grass, shrubbery, or trees. Rice will grow if properly cultivated.

Miscellaneous remarks upon tower and site.

The tower stands in a rice field which is cultivated up to the site bounderies. If a proper embankment was placed around it trees grass and vegetables would grow but the outlay would not be warranted by the object.

LANTERN AND LANTERN FIXTURES.

Order or class of lantern. Eight inch Fresnel lens signal light

Diameter. 8"

Number of sides in plan. Circular

Height glazed.

Number of plates in height.

Number of plates in each side.

Thickness of plates.

Size of the different plates.

Number of storm panes of glass.

Unglazed side of lantern in plates or degrees of arc.

Materials of which the lantern is constructed. Glass and Tin

Dome. None

Cowl. None

Lightning-conductor spindle. "

Lightning conductor, of what material; how attached to spindle; how led, and how far below the surface of dry earth, or otherwise, as the case may be. None

Balustrade and outside gallery.

Lantern doors and how fitted.

Floor of lantern—of what materials.

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

VENTILATORS.

In parapet, wall, or lower part of lantern. Blues on two sides of lantern.

Lantern ladders for cleaning plate glass outside.

Curtain hooks inside of lantern—how fitted.

WATCH ROOM.

How fitted.

Bell wires, or speaking tubes, for calling relief keepers—kind.

ILLUMINATING APPARATUS, &c.

Order and characteristic distinction of apparatus. 8" Fresnel lens Signal Light. Red

If movable; time of revolution, and intervals between and duration of flashes.

If fixed, or fixed varied by flashes; arc of fixed part in degrees, and between what points of the compass seen.

Number of panels in the lens apparatus.

Number of prisms of each panel *above* the dioptric drum or central belt of the lens.

Number of prisms of each panel *below* the dioptric drum or central belt of the lens.

Pedestal.

Service table.

Tube leading through the center of the upper metal ring of the lens into the cowl, to carry off the gases of combustion and to assist in producing a proper draught in the lantern—of what material, diameter, and how fitted and connected with damper tube when in place.

If revolving, revolving machinery.

Revolving cord or chain—how led.

Length of drop tube.

Length of time revolving machinery will run after being wound up.

How machinery is protected.

How regulated; describe.

How the flashes are produced: By the whole apparatus revolving; by the central belts only revolving; by vertical elements-panels off vertical revolving outside of fixed lens, and, if so, the number of such panels, or how?

IF COLORED LIGHT.

How is the color produced? Describe. By color of lens.

LAMPS AND BURNERS.

Description of lamp in use and number of wicks to burner. One wick

Number of spare lamps at the station. One spare lantern with lamp

Number of spare-lamp burners at the station. None except the one in the above mentioned lantern.

TOOLS, IMPLEMENTS, AND ACCESSORIES.

Lantern curtains.

Lens covers.

Damper tube and key.

Spare damper and key.

Carillon, or alarm bell, for overflow lamp.

Time marker for revolving light.

Gauge (250-gram measure) for regulating the overflow of oil through burner.

Spare lamp ready for use.

Rod lamp ready for use.

Curtain-hanger for putting up and taking down lantern curtains.

Heater, (if required.)

Spare-lamp cover.

Lamp stand.

Mechanical lamp cords or chains.

Revolving machinery cords or chains.

Revolving machinery weights.

Clutch for resting weight on.

Spare fly or governor.

Gauge for oil cistern of lamp.

Feather brushes.

Linen towels.

Sponges.

Chamois skins.

Scissors.

Chimney-lifters.

Coupling-plyers.

Service basket and implements.

Cleaning materials.

Keeper's aprons, &c., (see list.)

CLOSETS IN TOWER.

How fitted and used.

OIL ROOM OR CELLAR.

Describe where placed and how fitted. Wooden house 8' × 12' placed near the base of the beacon on brick piers, and fitted with shelves for receiving mineral oil in boxed cans.

Regulation 100-gallon oil butts—number.

Regulation 50-gallon oil butts—number.

gallon oil cans—number.

Oil butts—how placed.

CLOSETS AND STOREROOMS.

Where placed, how fitted and used.

Damp or dry, suited or unsuited to the purposes for which they were designed.

FOG SIGNAL.

Describe in detail, embracing— None.

Kind and character of instrument.

Characteristic distinction of.

Location, with reference to the light-house, to a particular danger or channel, or to the special object for establishing it.

Distance from the light-house.

Water supply for it.

How it is reached from the light-house.

Kind and size of fog-signal building or buildings.

DWELLINGS FOR KEEPERS.

Location, with reference to the light-house tower. None

Materials of which built.

Number of rooms in each dwelling.

Number of keepers and assistants to each dwelling.

Out-houses.

Paths or walks on the premises.

Area of premises enclosed, and how.

Area of garden.

Area in timber or shrubbery.

Area susceptible of profitable cultivation.

Area cultivated or prepared for cultivation.

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

Distance to the nearest post office.

Distance to the nearest village or town.

Facilities for reaching the light-station by public conveyance.

Facilities for reaching the light-station by private conveyance from the nearest village, town, railroad station, or steamboat landing, and the distance.

WATER FOR DRINKING AND DOMESTIC USES GENERALLY.

How procured.

Quality.

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

Liable or not to be injured by the inroads of storm tides and seas.

If rain water in tanks or cisterns, what precautions have been taken to insure its purity.

Capacity of tanks or cisterns, and where placed.

Tanks or cisterns—of what materials made.

If from a well, describe and give depth.

Diameter.

Lined or not.

Water obtained by pump or bucket.

Distance from keeper's dwelling.

HEALTH OF THE LIGHT-STATION AND VICINITY.

General opinion in regard to the healthiness or unhealthiness of the light-station and vicinity.

Danger from Malarial fevers.

Diseases—what are most prevalent at the station and in the vicinity. Malarial fevers.

Do they prevail at particular seasons of the year or not? In the Summer and Autumn

Are there any local causes, such as swamps, marshes, &c., in the immediate vicinity of the light-house which are likely to be the cause of these diseases? A fresh water river and rice fields surrounds the Station

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

LANDING, WHARF, BOAT-HOUSE, AND ROAD TO THE LIGHT-HOUSE.

Describe. No boat house. A plank walk connects the landing and Beacon - 100 feet long and 2 feet above the ground.

MISCELLANEOUS REMARKS UPON THE GENERAL CHARACTER AND CONDITION OF THE PREMISES, TOWERS, BUILDINGS, AND ILLUMINATING APPARATUS AT THIS DATE.

are in good order.

Encl 63 6th Eng.

No. 36.

Sixth L. H. DISTRICT.

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RECEIVED
DEC 2 1885
LIGHT HOUSE BOARD

DESCRIPTION

OF

LIGHT-HOUSE TOWER, BUILDINGS, AND PREMISES

AT

Port Jackson Range Beacon, Ga.

Rear Beacon.

November 21st, 1885.

Noted 3 Dec. '85

NAME AND POSITION OF THE LIGHT-HOUSE AND LIGHT-STATION.

Fort Jackson Range
Rear Beacon.
Savannah River, Ga.

By whom described. B. B. Smith - Asst. Engineer.

Date of description. November 21st, 1885

Distinguishing character of light or lights. Fixed Red.

Latitude of tower. N. 32° 05' (06") } Authority.
Longitude of tower. W. 81° 01' (27") } U.S. Coast Survey Chart.

PREMISES—A DETAILED DESCRIPTION OF, EMBRACING—

Area of the entire site. One half (½) acre

Character of surface soil. Clay.

Distance of tower from nearest high-water mark. Surrounded at high water.

Enclosures to premises. None.

Wharf or landing on premises. None.

Road to landing or wharf, character of, and distance from tower. Plank walk 20 feet long connects beacon with a rice-field dam, which leads to boat landing at front beacon - 700 ft. distant.

Means by which the light-station may be reached. By railroad and steamboat to Savannah - thence by hired boat.

Distance to the nearest public road, railroad-station, or steamboat-landing, and to which
Three (3) miles to Savannah, Ga.

Tower or other means used for supporting the lantern and apparatus. Triangular skeleton iron structure

Number of separate lights. One light.

When first built or established. 1884

When last thoroughly rebuilt, repaired, or renovated. Never.

Condition at this date. Good

Shape of tower in plan. Triangular.

Height of tower from base to ~~cowl~~ top of lantern. 41 feet

Height of focal plane of lantern above the mean sea or lake level. 43 feet.

Back-ground of the light-house, upon which it is projected, as seen from the sea or lake.
Lower half woods - Upper half Sky.

Color of tower. Brown.

Color of tower, how produced. Paint

Tower—connected with keepers' dwelling, and how, or detached. No dwelling

Object: sea-coast, lake-coast, bay, harbor, channel, or range; for general or local navigating purposes. One of a range to guide past the "Obstructions" near Western end of Elba Island.

Materials of which the tower is built. Iron.

General description, embracing—
Thickness of walls at base.
Thickness of walls at parapet. } See next page.

Diameter of tower at base. 13 ft. 6 inches from center to center of disks.

Diameter of tower at parapet.

Kind of stairway and steps. Iron Ladder.

Number of landings of stairway. None.

Size of glass for glazing tower-windows.
Number of windows in tower, and size of sash.
Number of doors. } None.

Kind of foundation and depth below the surface. Foundation consists of 3 piles 20' long upon which are fastened cap timbers so that their top surfaces are 6" below standing water. Three brick piers rise from the top of the caps. The anchor plates are below the caps and the anchor bolts pass through the piers to the disks

Character of soil at and surrounding the light-house. Clay Mud.

Soil susceptible of being protected by grass, shrubbery, or trees. Not at present = Would be if water was kept from site.

Miscellaneous remarks upon tower and site.

The tower stands just outside of a rice field but the site was not considered of sufficient value by its former owners to warrant being diked in.

LANTERN AND LANTERN FIXTURES.

Order or class of lantern. Eight inch Fresnel lens Signal light

Diameter. 8"

Number of sides in plan. Circular.

Height glazed.

Number of plates in height.

Number of plates in each side.

Thickness of plates.

Size of different plates.

Number of storm-panes of glass.

Unglazed side of lantern in plates or degrees of arc.

Materials of which the lantern is constructed. Glass and Tin

Dome. None

Cowl. None

Lightning-conductor spindle.

Lightning-conductor, of what material; how attached to spindle; how led, and how far below the surface of dry earth, or otherwise, as the case may be.

Balustrade and outside gallery.

Lantern-doors, and how fitted.

Floor of lantern—of what materials.

Watch-roo

In parapet

Lantern-la

Curtain-h

How fitte

Bell-wires

Order and

If movab

If fixed, c