Watch Hill. St. Sta.

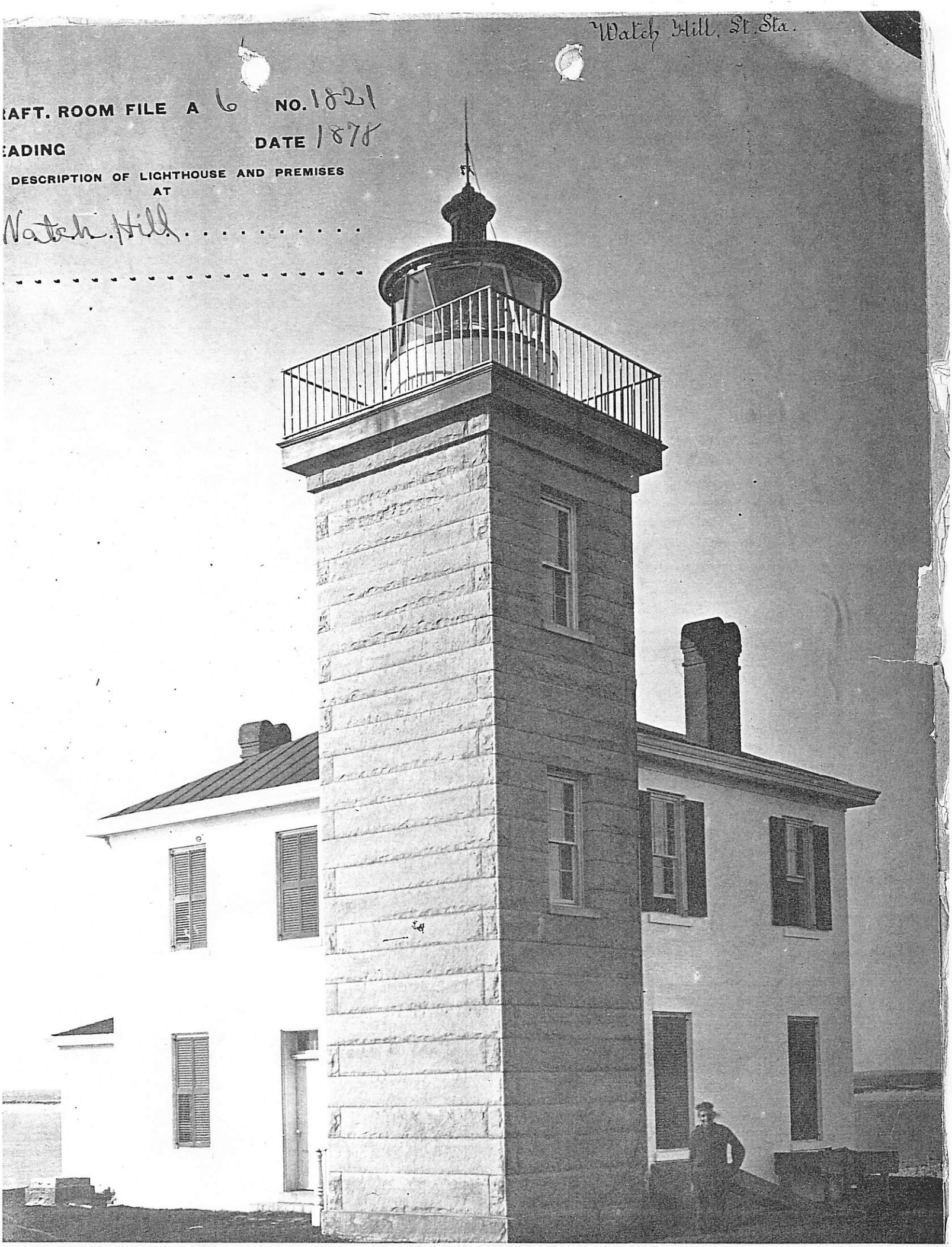
RAFT. ROOM FILE A 6 NO. 1821

EADING DATE 1878

DESCRIPTION OF LIGHTHOUSE AND PREMISES
AT

Watch Hill.....

.....



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F. N.

Form No. 60.

III^rd DISTRICT.

CRIPTION OF LIGHT-HOUSE TOWER,

BUILDINGS, AND PREMISES

AT

Watch Hill, R. I.

, 1878.

-1,000.)

Folio
Drawer
No. 1821

CUPBOARD A.
SHELF B.
NO. 1821

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

Watch Hill Light-Station

On the West Point - Rhode Island.

3 miles South-East of Stonington, Connecticut

By whom described, Engineer 3rd L. H. Dist

Date of description, Oct- 1st- , 1878

Distinguishing character of light or lights, Fixed White. 4th Order

Latitude of tower, 41° 18' 14"

Longitude of tower, 71° 51' 32"

Authority, Light-House List- 1890

PREMISES—A DETAILED DESCRIPTION OF, EMBRACING—

Site of station: Public land, purchase, Military or Naval reservation, lease,

Date of reservation,

Date of deed,

Date of permission to occupy,

Date of lease,

Area of the entire site, 4½ Acres.

Area inclosed,

Character of surface soil, Loam - & Sandy Clay.

Distance of tower from nearest high-water mark, About 75 feet

Inclosures to premises, Post and rail fence

Wharf or landing on premises, None - Landing is easily made on East side of Island

Road to landing or wharf, character of, and distance from tower, Good path

Means by which the light-station may be reached, By boat from Stonington in summer by wagon from Westerly, R. I.

PREMISES—A DETAILED DESCRIPTION OF—CONTINUED.

Distance to the nearest public road, railroad station, or steamboat landing, and to which, Public road 1/8 mile. Steamboat landing at Newport until 1/4 mile. Railroad [illegible] 1 mile

Distance to the nearest post-office, 6 miles

Distance to the nearest village or town, 6 miles } Newport, R. I.

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, From Newport by boat, or by road from Newport, R. I.

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

Number of separate lights, One

When first built or established, 1807

When last thoroughly rebuilt, ~~repaired~~, or ~~renovated~~, 1857. Repaired 1871-1873.

Condition at this date, Good

Shape of tower in plan, Square

Height of tower from base to ~~cowl~~ of lantern, 40 feet.

Height of focal plane of lantern above the mean sea or lake level, 62 feet

Back-ground of the light-house, upon which it is projected, as seen from the sea or lake, Land

Color of tower, White

Color of tower, how produced, Painted

Tower—connected with keepers' dwelling, and how, or detached, Connected with dwelling

on U. S. Reservation

Object: sea-coast, lake-coast, bay, harbor, channel, or range; for general or local navigating purposes, To guide vessels from the East into Narragansett Bay

Materials of which the tower is built Stone

General description, embracing—

Thickness of walls at base, 2 feet

Thickness of walls at parapet, 2 feet

Diameter of tower at base, 18 feet 6 inches

PREMISES—A DETAILED DESCRIPTION OF—CONTINUED.

Diameter of tower at parapet,

Kind of stairway and steps,

Number of landings of stairway,

Size of glass for glazing tower-windows, 10 X 15

Number of windows in tower, and size of sash,

Number of doors, 2

Kind of foundation, and depth below the surface,

Character of soil at and surrounding the light-house,

Soil susceptible of being protected by grass, shrubbery, or trees

Miscellaneous remarks upon tower and site, In good condition

LANTERN AND LANTERN FIXTURES.

Order or class of lantern, 4th Order

Diameter,

Number of sides in plan, 12

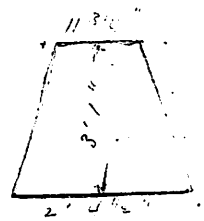
Height glazed, 3 feet

Number of plates in height, 1

Number of plates in each side, 1

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,

Dome,

LANTERN AND LANTERN FIXTURES—CONTINUED.

Cowl, Iron

Lightning-conductor spindle, Iron and Copper

Lightning-conductor, of what material; how attached to spindle; how led, and how far below the surface of earth, or otherwise, as the case may be. Copper rope from Spindle led down east side of Tower.

Balustrade and outside gallery, Iron

Lantern-doors, and how fitted, 2 outside iron. inside wood. outside fastened with spring bolt; inside two bolts, no hinges

Floor of lantern—of what materials, Iron

Watch-room door leading into the lantern, and how fitted, Iron frame door opening into

VENTILATORS.

In parapet, wall, or lower part of lantern, 3 ~~Iron~~ ventilators in parapet wall

Lantern-ladders for cleaning plate-glass outside, None required

Curtain-hooks inside of lantern—how fitted, Screwed into wood casing

WATCH-ROOM

How fitted, No fittings

WATCH-ROOM—CONTINUED.

Bell-wires, or speaking-tubes, for calling relief keepers—kind, None

ILLUMINATING APPARATUS, ETC.

Order and characteristic distinction of apparatus, 4th Order. Fixed white 270
(No makers name on lens)

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

fixed

If fixed, or fixed varied by flashes; arc of fixed part in degrees, and between what points of the compass seen (from seaward), E. 3/4. N. by Southard to W. 3/4 N.

Number of panels in the lens apparatus, 3

Number of prisms of each panel *above* the dioptric drum or central belt of the lens, 7.

Number of prisms of each panel *below* the dioptric drum or central belt of the lens, 5

Pedestal, Iron

Service table, None

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, None

ILLUMINATING APPARATUS, ETC.—CONTINUED.

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 panels of vertical elements revolving outside of fixed lens, and, if so, the number of such panels, or how?

IF COLORED LIGHT.

How is the color produced? Describe,

ter supply for it,

How it is reached from the light-house,

Description of fog-signal building or buildings,

DWELLINGS FOR KEEPERS.

Location, with reference to the light-house tower, Dwelling at N.W. Corner of Tower. One entrance at foot of Tower, one from oil room

Materials of which built, Brick

Number of rooms in each dwelling, 9. including extension

Number of keepers and assistants to each dwelling, One Keeper

Out-houses, One barn

Paths or walks on the premises, Sufficient to reach the roads &c

Area of premises inclosed, and how, About 3½ Acres, fenced & rail fences

Area of garden, About one Acre

Materials of wh...

General description, embracing—

Thickness of walls at base, 2 feet

Thickness of walls at parapet, 2 feet

Diameter of tower at base, 10 feet 6 inches

LAMPS AND BURNERS.

Description of lamp in use and number of wicks to burner, Dreap Sink lamp - 1 wick grade more air from burner Sutton 1½ dia, Sinny base 2½ top 2¾ 11½

Number of spare lamps at the station, 1

Number of spare lamp-burners at the station, 2

CLOSETS IN TOWER.

How fitted and used, None

OIL-HOUSE OR ROOM.

Describe where placed and how fitted, In second story - in connection with tower, & level with the second landing of tower, good closet in oil room Outside shut iron oil house outside on E. side built 1895.

CLOSETS AND STOREROOMS.

Where placed, how fitted and used, In oil room

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

Dry

FOG-SIGNAL.

Described in detail, embracing—

Kind and character of instrument,

Characteristic distinction of,

WATER FOR DRINKING AND DOMESTIC USES GENERALLY—CONTINUED.

If from a well, describe and give depth, Well 20 Feet deep

Diameter, 2 Feet

Lined or not, lined with Stone

Water obtained by pump or bucket, Bucket

Distance from keeper's dwelling, 50 Feet

HEALTH OF THE LIGHT-STATION AND VICINITY.

neral opinion in regard to the healthiness or unhealthiness of the light-station and vicinity,

Healthy

ases—what are most prevalent at the station and in the vicinity? None

ley prevail at particular seasons of the year or not? No

here any local causes, such as swamps, marshes, etc., in the immediate vicinity of the light-house which are

kely to be the cause of these diseases? No.

DWELLINGS FOR KEEPERS—CONTINUED.

Area in timber or shrubbery, None

Area susceptible of profitable cultivation, 3 acres

Area cultivated or prepared for cultivation, 3 Acres

Character of adjacent surrounding country: Soil sandy, clay, marsh, swamp, wood, fast ground, or shifting sands,

Sandy and fast ground

WATER FOR DRINKING AND DOMESTIC USES GENERALLY.

How procured, Wells - and rain water

Quality, good

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

Liable or not to be injured by the inroads of storm-tides and seas, No

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

None required

Capacity of tanks or cisterns, and where placed, 7 feet diameter 8 feet deep - under east of dwelling

Tanks or cisterns—of what material made,

Brick - and cement lined

HEALTH OF THE LIGHT-STATION AND VICINITY—CONTINUED.

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,

Landing on beach