LIGHTHOUSES OF MASSACHUSETTS
THEMATIC GROUP NOMINATION

USCGHO MA

LIGHTHOUSE INFORMATION FORM

NUMBER 13

MASSACHUSETTS HISTORICAL COMMISSION
80 Boylston Street, Boston, MA 02116

PHOTOGRAPH KEY

United States Coast Guard, Boston,

1, date unknown.

HISTORIC NAME: Cleveland Ledge Light Station

TOWN: Bourne

LOCATION: 21' of water on a ledge 2 mi. offshore in

COUNTY: Barnstable CODE: 001

CONGRESSIONAL DISTRICT: 10th

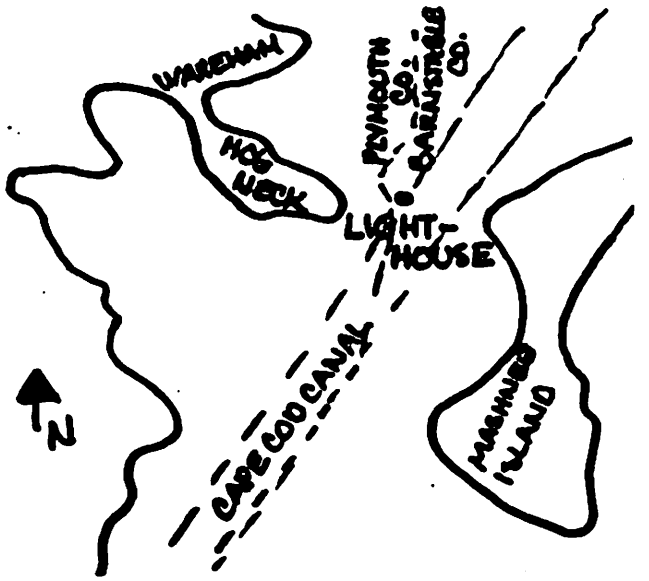
LOCATION OF LEGAL DESCRIPTION:

Barnstable County Courthouse

VERBAL BOUNDARY DESCRIPTION:

The nomination is confined to the light and its man-made foundation.

SKETCH MAP



LAT./LONG.: 41 31'57"N/70 41'40"W

UTM COORDINATE: 19/358/500/4609/900

USGS QUADRANGLE: Prov.RI., Mass., Conn.

SCALE: 1:250,000

ACREAGE: Marine Site - less than one acre

OWNER(S): United States Coast Guard
First Coast Guard District
408 Atlantic Ave.
Boston, Massachusetts 02110

STATUS:
Active/Unmanned

RECORDED BY: N. Salzman

ORGANIZATION: MHC

DATE: July, 1981

MAJOR ELEMENTS: The structure is a 1940 caisson from which rises a two story dwelling surmounted by a tall tower and a traditional lantern. It is Art Moderne in style and is 74' tall and painted white.

Covering 1200 square feet of floor area, the Light Station was built at a cost of $250,000.

Foundation - concrete 52' high, filled with rock.
Main Deck - of steel surrounded by simple railing of post and 3 horizontal rails, reminescent of the bridge of a luxury liner of the 1930s.
Level one - L1 is round with 8 faces; wide windows alternate with narrow windows in the lower section of the 2 story square rooms.
Level two - L2 consists of a square cross superimposed on the round first level. Windows at each of the four faces are directly above those at level one. Roof decks are of quadrant shape and top the level one sections between the second level rooms.
Tower - The lighthouse tower rises 50' from the center of the square cross.
Lamp room - The lamp room level has 4 portholes.
Lantern - The lantern, which is surrounded by an iron railing with a shallow balcony walkway, is a typical 19th century cast iron lantern with cast iron panels and a scuttle door in the lower level.
Diagonal astragals (as are also found at Bird Island, #4) connect to posts in the lens room. A ladder leads to the roof which supports an antenna.
There is no ventilator ball or lightning rod (as the building is recent in technology).
LIGHT CHARTERISTICS - Flw/10 sec., 6PL lampchanger/Lamp 3.05A/250mm plastic lens/CC8TH lamp rot optic 3 rpm 120v/11vDC/omni-directional L2EFL 2 foghorns. 1b1/15 secs (2s blast).

CHRONOLOGICAL HISTORY:

1940 - Construction begins; last lighthouse built in Massachusetts.
9/18/1941 - Transferred to government in partially completed condition because of war threat with temporary light installed; survived a violent storm.
1958 - Fixed light, white kerosene installed.
1961 - 3 AC generator converted from DC, $4000.
1978 - Automated; at that time, Coast Guard personnel were removed.
1982 - Coast Guard plans to install glass block windows for security and maintenance purposes.

LEVEL OF SIGNIFICANCE

The Cleveland Ledge Light Station possesses integrity of location, design, setting, materials, and workmanship as well as important associations with the development of aids to navigation in Massachusetts. Erected in 1940, it is a well maintained example of caisson construction and the last lighthouse of traditional form to be erected in the state. Because of its late date, this light exhibits unique Art Moderne design features. The Cleveland Ledge Light Station meets criteria A and C of the National REgister of Historic Places on the state level, as well as survey criteria la, le.

UNITED STATES COAST GUARD

Officer in Charge
Cleveland Ledge LtSta.
U.S. Coast Guard
Woods Hole, Mass. 02540

5720
19 July 1968

From: Officer in Charge, Cleveland Ledge Light Station
To: Commander, Coast Guard Group Woods Hole

Subj: Compleation of unit history

Ref: (a) COMCGONE NOTICE 5720

1. In compliance with ref. (a) the following compleation of this unit's history is as follows.

a. Initial date unit built. 7 October 1940

b. Latest date unit rebuilt. None, just general upkeep has been sufficient.

c. Present location. Cleveland Ledge Light Station, Buzzards Bay, Massachusetts. Latitude 41°37'.9N Longitude 70°41'.7 W

d. Discription of building. Light list number 639, flashing white light every 10 seconds with an 0.8 second flash, is a major aid to navagation light station, which is 52 feet in diameter around the casson and 84 feet in overall height. The station is built on a cylindrical caisson foundation resting on timber grillage, filled with concrete and stone. The station is mainly white in color with a small amount of black trim.

There are 4 vertical ladders located on the north, south, east and west sides which go up 20 feet to the maindeck platform, which is 7 feet wide going around the station. On the north side is located the station boom used for handling cargo and the station small boat.

Inside, on the maindeck is located the radiobeacon room, messdeck, office, and recreation room. Below the maindeck is the engine room, where connections for shore tie cable and telephone cable come through the caisson wall. there are 2, 4cylinder continental deisel generators used for emergy power, 2 air compressors and 2 air flasks used for fog horns, heating plant, 6 fule tanks holding 6236 gallons of fule oil and 4 water tanks holding 4800 gallons of fresh water .

Above the maindeck there are three bedrooms and one lavatory. Outside there are eight rainroof used to collect rainwater, which are directly connected to the fresh water storage tanks. On top of the second deck is a 40 foot tower, approximately 15 feet in diameter which has a lattern room on top where the main light is located, the light is a forth order, 1000W, 190,000 candle power, with a 35 foot radio beacon antenna mounted on top the lattern room roof.

Keep Freedom in Your Future With U.S. Savings Bonds

CCGD1 NOTE 5720
19 JULY 1968

e. Chronological listing of previous CO'S/OinC'S as far back as records go. The first CO was LT. Olie P. Swenson. OinC'S since 1952. 1. Joseph, William B. BM1, 2. Wisuieusk, Alfred W. BM1, 3. Prouse, Lawerence G. BM1, 4. Netherwood, Jack D. BM1, 5. Norman, Richard E. BM1, 6. Oliver, Robert E. BM1, 7. Glass, Ronald E. BM1AN

f. Interesting Matters. The huricane of September 1944 hit the beacon from the southeast around eight o'clock on September 14. Four hours later the wind changed to the southwest, and within half an hour the glass on the southwest side of the tower skilight gave way, allowing tons of water to pour into the light house. During the gale, the launch secured to the davits thirty feet above the high water mark was badly damaged by the force of the waves.

Ronald E. Glass

BM1AN RONALD E. GLASS
OFFICER in CHARGE

RMP

CLEVELAND LEDGE ADDITION TO 1 f.

"The men were only able to stop the water from rising in the battery room when it had reached a point less than two inches from the top of the batteries. One by one various pieces of electrical equipment flared out a warning as it was short circuited. Finally Seaman LaMar Steed and Chief Boatswain Mate Thomas E. Norris managed to reach the broken glass block and erect a barrier of oil drums, planking, and mattresses against the sea. The men saved the lighthouse from being extinguished at a time when both the telephone and radio were out of order."

(Edward Rowe Snow - Famous Lighthouses of New England p. 421)

J. P. HANTOVER
By direction

STANDARD-TIMES
NEW BEDFORD, MA.
D. 50,100

AUG 31 1978

New England Newsclip

Famous beacon to go it alone

A Buzzards Bay landmark, the Cleveland Ledge Light, will be changed to an automated light beacon Friday the Coast Guard has reported.

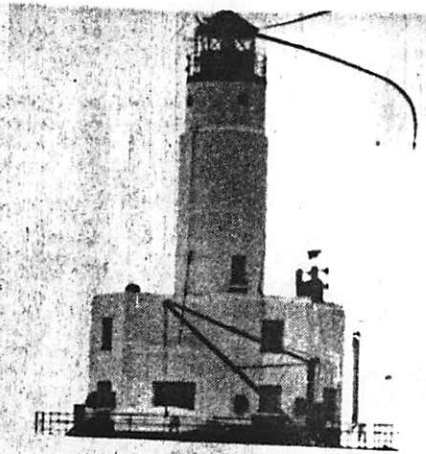
The beacon, manned by Coast Guard crews since it was completed in 1942, is being automated to reduce Coast Guard operating costs and allow the light's four-man crew to take other duties in the Aids to Navigation branch.

A Coast Guard spokesman in Boston said the Light is one of 13 in the First Coast Guard District to be automated since 1972. It is part of an overall program to eliminate manned crews on "isolated" facilities.

Last spring the Butler Flats Light at the entrance to the New Bedford harbor channel was deactivated by the Coast Guard and its beacon shifted to the New Bedford hurricane barrier. The Butler Flat Light has been turned over temporarily to New Bedford and is being operated as a private aid to navigation by The Port Support of New Bedford Inc.

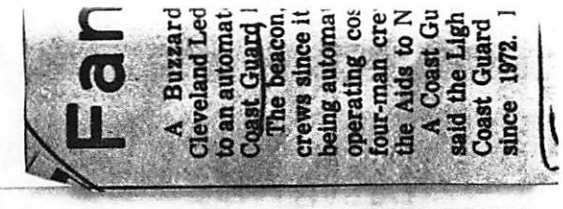
The Cleveland Ledge Light marks the outer end of the Cleveland Ledge channel and serves as the main guide for ships entering the Cape Cod Canal from Buzzards Bay. The lighthouse tower, more than 50 feet tall, stands on a heavy cement foundation sunk in 21 feet of water.

The lighthouse was built by the J.F. Fitzgerald Construction Co. of Boston and was the first new lighthouse structure built on the Atlantic Coast in 25 years. The lighthouse and ledge were named after President Grover Cleveland who frequently fished in Buzzards Bay during vacations.



Cleveland Ledge Light
Marks Cape Cod canal entrance

STANDARD-T
NEW BEDFO
D. 50,100
AUG 31



UNITED STATES COAST GUARD

MAILING ADDRESS:
COMMANDER (oan)
FIRST COAST GUARD DISTRICT
150 CAUSEWAY STREET
BOSTON, MASS. 02114

OPORDER 7-78
6 September 1978

OPERATION ORDER
D1 NO. 7-78

Subj: Unmanning of Coast Guard Light Station, Cleveland Ledge

Ref: (a) COMDT (G-WAN-1) OFCO 63-78
(b) CCGDONE OPLAN 1-FY
(c) CCGDONE INST M16513.1A, Light Station Program

TIME ZONE: Utilize time zone QUEBEC (+4) for operations.

TASK ORGANIZATION:

a. Officer-in-Charge, CG Light Station, Cleveland Ledge

b. Commander, CG Group, Woods Hole

c. Commanding Officer, CG Base, Woods Hole

d. Commander, First Coast Guard District

e. Officer-in-Charge, CG ANT, Woods Hole

1. SITUATION.

a. It has been determined that the aids to navigation responsibilities of the Commander, First Coast Guard District can be more efficiently carried out by discontinuing CG Light Station, Cleveland Ledge, as a manned unit of the Coast Guard.

b. No change will be made to the aids to navigation services to the mariner presently provided by CG Light Station, Cleveland Ledge.

2. MISSION. Effective as soon as possible after receipt of this OPORDER, discontinue CG Light Station, Cleveland Ledge, as a manned unit of the Coast Guard in accordance with reference (a).

3. EXECUTION. This force will:

a. Officer-in-Charge, CG Light Station, Cleveland Ledge

(1) Cease operations as a manned light station.

(2) Return unit copy of the CCGDONE OPLAN (1-FY) to Commander, First Coast Guard District (or).

(3) Return all radios and associate equipment to Coast Guard ERS Woods Hole pending disposition instruction from Commander, First Coast Guard District (oc).

b. Commander, Coast Guard Group, Woods Hole

(1) Automate and unman Coast Guard Light Station, Cleveland Ledge as soon as possible after receipt of this OPORDER.

(2) Advise Commandant (G-WAN) by message, info Commander, First Coast Guard District at the time of this change.

(3) Upon automation of Coast Guard Light Station, Cleveland Ledge assume operational control and monitoring responsibility of the light and sound signal.

(4) Arrangements are being made with the U. S. Army, Corps of Engineers at Cape Cod Canal, to monitor the visibility in the vicinity of the light and report the same to Coast Guard Group, Woods Hole.

(5) After Officer-in-Charge, CG ANT, Woods Hole removes property as described in paragraph 3.e(1), report the remainder of excess property via SF-120, Report of Excess Property, to Commander, First Coast Guard District (flp).

(6) Insure that adequate clean-up and securing actions are taken to prevent unauthorized entry to or physical deterioration of the light, exterior structures and buildings.

c. Commanding Officer, Coast Guard Base, Woods Hole

(1) Assume intermediate and depot level maintenance responsibility for Coast Guard Light Station, Cleveland Ledge in accordance with COMDT NOTE (series) 16530 and the Coast Guard Aids to Navigation Manual (CG-222-3).

d. Commander, First Coast Guard District. (Staff symbols after each statement indicate responsible staff element.)

(1) Revise the Aids to Navigation Assignment List, CCGDONE INST P16511.1 to reflect this change in accordance with reference (b). (oan)

(2) Coordinate the physical automation of the light. (oan)

(3) Transfer funds as per paragraph 4.e. and coordinate internal and external accounting changes. (f)

(4) Initiate action to dispose of any real property which becomes excess as a result of this automation. (f)

(5) Advise Commandant (G-CBU) of funding changes as per reference (a). (f)

(6) Reassign or dispose of the station boat. (osr)

e. Officer-in-Charge, Coast Guard ANT, Woods Hole

(1) Screen and remove any property at Coast Guard Light Station, Cleveland Ledge, which is unusable by Coast Guard ANT, Woods Hole, prior to automation.

(2) Assume responsibility for Coast Guard Light Station, Cleveland Ledge, in accordance with COMDT NOTE (series) 16530 and Coast Guard Aids to Navigation Manual, Technical (CG-222-3).

x. Coordinating Instructions

(1) This OPORDER is effective upon receipt.

(2) Authorization is granted for the destruction of this OPORDER upon completion of this operation.

4. ADMINISTRATION AND LOGISTICS.

a. The unit OPFAC Number 01-41134 and Activity Code Z41134 are canceled upon disestablishment. All references to this unit will be removed from OPFAC. Form CG-4183, Change of Mailing, Freight and Billing Address, shall be submitted by Officer-in-Charge, Coast Guard Light Station, Cleveland Ledge, in accordance with the Standard Distribution List to Commanding Officer, Coast Guard Supply Center, Brooklyn, New York, Attention Code 121, via Commander, First Coast Guard District (f), immediately upon receipt of this OPORDER.

b. The personal allowance of Coast Guard Light Station, Cleveland Ledge is canceled upon automation. The BL1 billet shall be assigned to Coast Guard ANT, Woods Hole, the MK2 billet to CG ANT, Boston, the MK3 billet shall be changed to an MK2 billet and assigned to CG ANT, South Portland, and the SN billet shall be assigned to CG ANT, Bristol.



c. The boat allowance for Coast Guard Light Station, Cleveland Ledge is canceled upon automation.

d. This change will be accomplished with District OE funds.

e. At decommissioning, the balance of the annual OPTAR funds remaining will be distributed as follows: 60% to Coast Guard ANT, Woods Hole for the maintenance of Cleveland Ledge Light, and 40% to the District HD account to fund most utility costs of Cleveland Ledge Light. Charges for the telephone services necessary to control the light will be funded by the maintenance unit. These funds will be annualized and recurring in future years.

f. The station material allowance list is canceled upon automation.

g. The automation equipment will be maintained in accordance with COMDT NOTE (series) 16530, Coast Guard Aids to Navigation Manual, Technical (CG-222-3), and equipment manufacturers manuals.

h. Personnel will remain assigned to the station until final inspection and approval by the Commander, First Coast Guard District.

5. COMMAND AND SIGNAL.

a. Command - Commander, First Coast Guard District, 150 Causeway Street, Boston, MA 02114.

b. Signal - In accordance with ANNEX P to reference (b).

W. S. SCHWOB

DISTRIBUTION: **SDL NO:** 107 **(D1 ONLY)**

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
A																										
B	4	2	100																							
C																										
D				1*																			2*			
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F																										

SPECIAL DISTRIBUTION: *C: Woods Hole
*D: Woods Hole