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10 February 2018

FILE NUMBER: M-10695

INSPECTION REPORT

ACCOUNT: OVERFALLS FOUNDATION

VESSEL: LIGHTSHIP “**OVERFALLS (LV118)**”

This is to certify that on 1 February 2018 the undersigned Marine Surveyor, at the request of Mr. Donald Gansauer, Overfalls Foundation, without prejudice and for interested parties, did carry out a general hull Condition inspection survey of the floating museum and registered National Historical Site former lightship “**OVERFALLS (LV 118)**”, as the vessel lay hauled on dry dock at Dorchester Shipyard, Dorchester, New Jersey undergoing a scheduled maintenance and repair shipyard period.

VESSEL PARTICULARS

1. Name: “OVERFALLS (LV 118)”.
2. Owners: Overfalls Foundation
3. Dimensions: 114.0'L x 26.0'B x 13.4'D.
4. Official No.: Not determined.
5. Built: 1938 at Rice Brothers Shipyard, East Boothbay, ME.
6. Construction: Original riveted steel hull (now with full welded doubler plates over lower half of hull).
7. Horsepower: 400 HP via single Cooper-Bessemer 8 Cylinder, air started engine (inoperable).
8. Inspected or Classed Vessel: No.
9. Utilization: Inoperable floating museum and registered National Historical Site in Lewes Delaware.

VESSEL DESCRIPTION

This former U.S. Lighthouse Service vessel was the last lightship commissioned for the U.S. Lighthouse Service, and saw service at three locations from 1938 to 1972, featuring the classic design and configuration for age and type, and fitted with a single mast with navigation light at 57' air height.

EQUIPMENT

- 1 – 7000 pound main mushroom type anchor.
- 1 – 3000 pound auxiliary mushroom type anchor.
- 1 – Dual 375 mm electric lens lanterns, on mast 57' above the waterline, rated at 15,000 candle power (1,000 watts).
- 1 – Dual air diaphones fog horn.
- 1 – 25 mile range radio beacon.
- 1 – RCA surface unit radar with range of 15 miles (vintage 1943)

While a majority of the original machinery and systems are in place on the vessel, it is reported all are inoperable at this time.

MACHINERY AND SYSTEMS

Original propulsion power was provided by a single Cooper-Bessemer 400 HP diesel engine with reduction gears driving a 7' x 2" propeller shaft. The main engine was air started.

Auxiliary power was provided by three GM 2-71 diesel engines driving 20 KW generators.

CONDITION

Overall appearance of the previously installed complete doubler plating on the hull is good. The propeller was removed from the shaft previously and the rudder is in place.

The underwater portions of the hull are fitted with threaded studs for bolt on type zinc anodes, which will be renewed as part of this shipyard period.

The original shell plating over the upper half shows some minor plating deflections of no consequence.

The starboard side original hull plating has several wasted areas above the shaped hull guard (and well above the waterline when afloat), which reportedly is to be patched by the shipyard prior to final paint.

A cursory inspection of the main deck revealed no unusual conditions.

CONCLUSION

As far as may be ascertained from a general examination of the subject vessel and machinery while on dry dock, without removals or opening up to expose parts ordinarily concealed, and without testing to ascertain thickness of structural members, or testing for tightness or opening up the machinery, it is the opinion of the undersigned that the hull of the subject vessel is in satisfactory condition for operation as a floating museum, with note that machinery and systems are now inoperable.

Further, no determination of inherent structural integrity or stability has been made, and no opinion is expressed or implied in this respect.

RECOMMENDATIONS

1. None at this time, with note, reported small wastage holes to be suitably repaired.

The above report is a statement of opinion made, signed, and submitted without prejudice to the rights and/or interests of whom it may concern.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J. R. Meyerrose", with a long horizontal flourish extending to the right.

Jason R. Meyerrose
Marine Surveyor – Vice President

Enc: Photographs

Prepared for:

Mr. Donald Gansauer
Overfalls Foundation

JRM/