



BID FORM - REVISED
MID-LIFE OVERHAUL SERVICES of the
M/V MARTHA'S VINEYARD
CONTRACT NO. 15-2016

[All items must be completed using this form, except that a Bidder may make its Bid in a manner other than on a copy of this form only if the Bidder clearly provides all of the information sought in this form. Additional sheets referenced by item number in the order in which they appear on this form should be used when more space is necessary for a full answer. Charts, diagrams and exhibits may be utilized if desired.]

Woods Hole, Martha's Vineyard and
Nantucket Steamship Authority
P.O. Box 284
Foot of Railroad Avenue
Woods Hole, Massachusetts 02543

Dear Procurement Officer:

In strict compliance with and subject to:

- (a) the Woods Hole, Martha's Vineyard and Nantucket Steamship Authority's Invitation for Bids for the Mid-Life Overhaul Services of the M/V Martha's Vineyard, Contract No. 15-2016, dated October 26, 2016 (the "IFB");
- (b) the Pro-Forma Contract for the Mid-Life Overhaul Services of the M/V Martha's Vineyard for the Woods Hole, Martha's Vineyard and Nantucket Steamship Authority, Contract No. 15-2016, dated October 26, 2016.
- (c) the Specifications for the Mid-Life Overhaul Services of the M/V Martha's Vineyard, Contract No. 15-2016, dated October 26, 2016, and the accompanying Drawings referred to therein; and
- (d) the following Addenda issued pursuant to said Invitation for Bids: (Bidder will list all Addenda to the Invitation for Bids, with number and date.)
 - (i) Addendum No. 1 dated 11/17/2016 to the Invitation for Bids;
 - (ii) Addendum No. 2 dated 11/30/2016 to the Invitation for Bids;
 - (iii) Addendum No. 3 dated 12/09/2016 to the Invitation for Bids;
 - (iv) Addendum No. 4 dated 12/20/2016 to the Invitation for Bids;

- (v) Addendum No. 5 dated 12/29/2016 to the Invitation for Bids;
- (vi) Addendum No. 6 dated 01/05/2017 to the Invitation for Bids;
- (vii) Addendum No. 7 dated 01/06/2017 to the Invitation for Bids;
- (viii) Addendum No. _____ dated _____ to the Invitation for Bids;

(herein collectively referred to as the "Contract Documents"), which by reference are expressly made a part hereof and incorporated herein, the Undersigned:

Senesco Marine, LLC

 (Name of Company)

hereby proposes to furnish all labor, services and materials and perform all work required for the Mid-Life Overhaul Services of the M/V Martha's Vineyard, Contract No. 15-2016, as indicated below, in strict accordance with and subject to the terms, conditions, specifications and drawings of the Contract Documents (the "Contract Work"), for the following Total Contract Price*, as that term is used in Article 1 of the Pro-Forma Contract attached as Exhibit C to the IFB, which Total Contract Price shall be without adjustment for changes in labor, material or tax cost, except as specified in the aforesaid Contract:

Sixteen million, nine hundred sixty-seven thousand, one hundred fifty and xx/100 dollars.

 (*Total Contract Price - Amount in Words)

_____ (\$ 16,967,150.00)

 (Amount in Numbers)

*including Vessel Transportation Cost, Section I, M.

The undersigned also agrees to perform the Contract Work at its shipyard located at
1390 Roger Williams Way, North Kingstown in the State of RI.

Identification of Person(s) Responsible for
 Making Evening and Weekend Rounds: Greg Daum

The undersigned agrees to complete the Contract Work and deliver the Vessel to the Steamship Authority at the Contractor's Shipyard within one hundred thirty-three (133) calendar days (including Saturdays, Sundays and holidays) after receiving custody of the Vessel, as set forth and in accordance with the Contract Documents. The undersigned acknowledges and agrees that time is of the essence.

The undersigned accepts and agrees to all the terms and conditions of the Invitation for Bids as fully as if they were separately repeated and agreed to in this bid.

The undersigned acknowledges that it has received and read the Pro-Forma Contract attached to the IFB as Exhibit C. Upon acceptance of the aforesaid bid by the Woods Hole, Martha's Vineyard and Nantucket Steamship Authority (hereinafter referred to as the "Owner"), the undersigned agrees to enter into a Contract with the Owner in the form of the Pro-Forma Contract referred to above within ten (10) calendar days after notice of acceptance of its bid and at that time also furnish the requisite payment bond in an amount equal to at least fifty percent (50%) of the Total Contract Price. The surety or sureties on such bonds shall be satisfactory to the Owner. The undersigned further agrees to pay the premiums for the aforesaid payment bond and that all the cost of such bonds and the premiums therefor is included in the amount of the foregoing bid.

The undersigned further agrees: (a) that it will not withdraw the foregoing Bid prior to the expiration of thirty (30) days after the date fixed for the opening of bids under the IFB; and (b) that in the event of the expiration of said thirty (30) day period without an award of the Contract having been made, the foregoing Bid shall remain in full force and effect for another thirty (30) days unless and until the Owner receives written notice of the withdrawal of the foregoing Bid by the undersigned.

A. BACKGROUND INFORMATION.

1. Name of Bidder: Senesco Marine, LLC
being a: Corporation
(corporation, partnership, individual or other)

2. If the Bidder is a corporation, the State under whose laws the Bidder was organized and is existing is: Rhode Island

If the Bidder is a partnership, attach a copy of the Bidder's Partnership Agreement, if any, together with any amendments thereto. If no written Partnership Agreement exists, describe the material terms of the partnership, including the date that the partnership was formed.

3. Address of Principal Office: 10 MacNaught Street, North Kingstown, Rhode Island 02852

Official Representative: Michael J. Foster

Telephone Number: 401-295-0373

Fax Number:

401-667-0251

4. Provide the names and addresses of all persons interested in this bid. (Note: Provide the first and last names in full. If the Bidder is a corporation, provide the names of the corporation's officers and directors, as well as stockholders who own more than 5% of the corporation's outstanding shares of stock; if the Bidder is a partnership, provide the names of all partners.)
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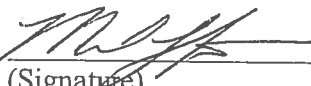



B. CERTIFICATIONS AND ACKNOWLEDGMENTS.

The undersigned hereby acknowledges and certifies under the penalties of perjury, to the best of his or her knowledge, information and belief, that:

1. This bid constitutes a firm offer.
2. By submission of its bid in response to the Invitation for Bids, the Bidder authorizes the Authority to contact any and all parties who may have knowledge or information concerning the Bidder's operations, experience and background and, further, hereby authorizes all such parties to communicate such knowledge and information to the Authority.
3. In making this bid, the Bidder has relied only upon the matters contained in the IFB and addenda thereto which have been issued by the Authority and disseminated to all potential bidders. The Bidder has not relied upon any other representations, either written or oral, made by the Authority and/or its Members, officers, employees or agents.
4. The Authority is soliciting competitive bids pursuant to a determination that such a process best serves the interest of the Authority and the general public. The Bidder acknowledges the Authority's right to accept or to reject any and all bids prior to acceptance, and to waive any informality, all as the Authority in its sole judgment and discretion may deem to be in its best interest.
5. The Bidder named herein is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in connection with the Contract.
6. Pursuant to Mass. G.L. c. 7, §22C, the Bidder does not employ ten or more employees in an office or other facility located in Northern Ireland or, if it does so employ ten or more employees there, that (a) it does not discriminate in employment, compensation or the terms, conditions and privileges of employment on account of religious or political beliefs; and (b) it promotes religious tolerance within the work place and the eradication

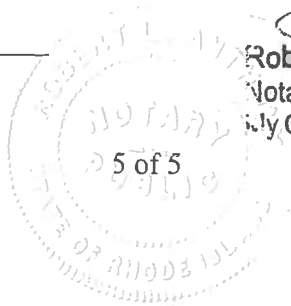
of any manifestations of religious and other illegal discrimination.

7. Pursuant to St. 1990, c. 521, §7, as amended by St. 1991, c. 329, the Bidder does not have fifty or more employees or, if it does employ fifty or more employees, it has established a dependent care assistance program or a cafeteria plan whose benefits include a dependent care assistance program or it offers child care tuition assistance or on-site or near-site subsidized child care placements.
8. Pursuant to Mass. G.L. c. 151A, §19A(b), the Bidder has complied with all laws of the Commonwealth of Massachusetts relating to contributions to the Massachusetts Unemployment Fund and payments in lieu of such contributions. In addition, the employer must submit a certificate of compliance issued by the Department of Unemployment Assistance showing that it is current in all its obligation prior to the issuance of any contract;
9. Pursuant to Mass. G.L. c. 62C, §49A, the Bidder has complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting of child support.
10. All of the information contained in this bid, including all of the attachments hereto, is true and correct.
11. This bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

<u>Michael J. Foster</u> (Name of Person Signing Bid)	<u>VP & General Manager</u> (Title of Person Signing Bid)
<u></u> (Signature)	<u></u>
<u>Senesco Marine</u> (Name of Bidder/Company)	<u></u> (Federal ID or Soc. Sec. No.)
<u>10 MacNaught St.</u> (Street Address)	<u>401-295-0373</u> (Telephone Number)
<u>North Kingstown, RI 02852</u> (Town/City, State, Zip Code)	<u>401-667-0251</u> (Fax Number)
<u>mfoster@senescomarine.com</u> (Email Address)	
<u>1/12/12</u> (Date)	<u></u>

Robert L. Anthony
Notary Public
My Comm. Expires 3/20/12

5 of 5



SENESCO MARINE REPAIR YARD

1-12-17

PRELIMINARY MASTER CONSTRUCTION SCHEDULE

FOR the Steam Ship Authority's CONTRACT 15-2016

ON THE P/V

"MARTHA'S VINEYARD"

January:

- 12th-Thursday, bid sub-mission by 14:00, At the Steam Ships Authority Procurement Office, Woods hole Terminal, One Railroad Ave, PO Box 284, Woods Hole Ma. 02543., per Addendum # 6. "Public Opening"
- 18th-Wednesday or beyond Award of the Contract.
- Lead time purchase layout plan complete.

February:

- 1st- Wednesday, Execution of the contract and furnishing of the Insurance Certificate by the successful bidder.
- 6th- Awards by Senesco to Subcontractors.
 1. Obtain all insurance certificates.
 2. Execute lead timed purchasing as needed from the graph chart based on production schedules.
 3. Produce Detailed spread sheet to support Article # 3 payment schedule complete with dated follow up "gant" sheet.
 4. Produce a "gant" sheet for the labor force staffing plan.
 5. Produce a "gant sheet for the sub-contractor calendar work flow to prevent trade interference

March:

Start planning for the import of a larger multi-shift labor force to include but not limited to:

1. Shift matrix by trade FOR HIRING requirements and the most production, least interference by shift and geographic location on the ship.
2. Rotational shift/of management staff development and planning.
3. Office space for Vendors, regulators, and in house management.
4. Discussion of what additional equipment may need to be purchased or leased.
5. Individual contractor meetings.
6. Start Pre-fab of the following but not limited to:
Pilot house, masts, hand rails, elevator shafts, fire stations, O2 level house extension, boat davit crane back up structure and deck insert, HVAC exhaust plenums, Fake stack, exhaust fan plenums, incline stair renewals, foundations for CHT, HPU-bow doors, HVAC deck penetrations, wiper and antenna mounts, generator foundations, excreta.

Start planning for inventory control to include but not limited to:

1. Storage areas and type with a drawing of the facility.
2. Location grid.
3. Chain of custody.
4. Discuss personnel for the department support to possibly include a runner/driver/fork truck operator & receiving.
5. Plan out tool crib physical expansion?

April:

1. Continue pre-fab of pre-engineered parts.

May:

1. Prefab of rigging equipment for the elevator installation, R & R of the generators, red gears, switch boards, bilge blocks etcetera.

June:

1. Pre-fab continues.

July:

1. End of construction for Pre-engineered, Pre-fab structures.

August:

All-inclusive subcontractor pre-contract meeting, for but not limited to:

1. Clarification of responsibility
 2. Chain of command.
 3. Discussion of the change order process.
 4. Trade interference and graphed time line of "gant" spread sheet discussion/presentation.
 5. Safety rules and procedures laid out by Senesco Safety Department.
- Containers and office space set up.
 - 992.1.12, Senesco will submit a heavy weather plan to the SSA.

September

- 1st Dumpsters, containers, and Porta-Johns delivered.
- 4th Bilge Block the dock.
- 7th The MV arrives at Senesco.
- **Gas free operations start immediately!**

1. Two (2) Gangways on.
2. Shore Power on.
3. Safety rails installed across the openings of the car decks.
4. Dumpsters on.
5. Containers on.
6. Porta-Johns on.
7. Load a man lift on the cargo deck.
8. Gas free operations complete by Sunday the 10th or Monday the 11th.

Section # 100, (After Gas Free certificate is issued) In the water.

- 150.1 Start removal of the bow and stern doors.
- Aft end of the 02 deck house cut away after joinery pull back.
- Port Elevator shaft cut.
- 150.0.2.2.3 Removal the Starboard anchor cable and chain.
- 150 0.2.2.4 Vent plenum trunk renewal process started.
- Old masts released.
- Pilot house released after wire pull back.
- Hydraulics vendor removes all hoses and caps all connections on HPUs.
- Easements/soft patches will be cut for the R & R of the reduction gears, generators, switchboards & hot water heaters

Section # 200, In the water.

- Cover the main engines and gauge panels in plastic & fire cloth.
- Break Reduction gear bolts, Remove support ginger bread, cover in fire cloth.
- Drain all engine coolants.
- Break all generator connections and loosen foundation bolts. Cover in fire cloth and plastic.
- Rig out the generators.
- Rig out the reduction gears.

Section # 300, In the water.

- MSE will pull back wiring on the aft end of the 02, and 03 deck houses in preparation for the house releases and subsequent extensions.
- MSE can start Pull back main generator wiring to the switch board.
- MSE can start Pull back E- generator wiring form the switch board.
- All batteries should be removed from the vessel. Pilot house roof batteries should be removed and placed in storage.
- Search lights removed for return to the owner.
- MSE, Bardwell, and Marcon will pull back wire in the pilot house for the subsequent pilot house structural removal.

Section # 400, In the water.

- Run all electronic systems in the presence of the OREP and Bardwell electronics prior to decommissioning, removal, cataloging and safe storage for return to the owner.
- MSE-Pilot house wire pull back on PH Electronics starts under Bardwell supervision.
- Removal and safe storage of the Pilot house electronics will take Bardwell Electronics for eventual return to the owner.
- Navigation lights removed, stored and returned to the owner.
- Sound powered phones removed for safe keeping, Wires pulled back and tagged by MSE.
- (3) TVs removed for safe keeping and return to the owner.
- VHF Radios (3) removed, tagged and put into safe storage.
- Remove all PA Speakers, pull back and tag the wire.
- Removal of all Cameras begins with full wire pull back.
- Roof antenna, signal wire pull back, and foundation removal.
- WI-FI system will have been removed prior to the boats arrival by the owners.
- The vessels magnetic compass shall be removed and put in safe storage.

Section # 500, In the water.

- 512.0.8 Air louver and duct work at frame 15.8 could begin after hot work permit is issued and generators are covered below.
- 514.1 HVAC, Hot water base board and convection heater removal from 01, 02 & 03 decks will take place. The pilot house will be first to allow the structural removal.
- 533.0.1, The potable water heaters will be rigged at out with the generators and reduction gears.
- 551.1, Remove the ships steam whistle and receiver from the pilot house roof and put it in safe storage for reinstallation on the new pilot house.
- 555.0.1, Remove all the ships portable fire extinguishers for safe storage, subsequent reinstall after recertification. This equipment will remain aboard in safe storage.(container?)
- 583.2.5.1 Life bouys and lights shall be removed and placed in safe storage on board, for reinstallation at delivery.
- 583.2.5.2, PFDs shall be removed from the vessel for safe, dry storage ashore.
- 583.2.8, Remove and store all safety equipment ashore with the batteries removed.
- 555.0.4, Subcontractor and Senesco will remove all CO2 extinguishing systems for disposal.
- 555.0.1, The **semi**-portable fire systems shall be re-moved
- 561., Steering gear electrical components can be removed for return to the owner or disposal.
- 582.0.4, The Four capstans can be washed off the deck for renewal and the two forward ones are to be relocated after the new doors are installed. Capstan motors can be sent out for 480VAC rewind conversion.
- 583.1.1, Wash off all rescue boat equipment for relocation. The Boat, Motor and cradle will be placed in safe storage (dry) for return to the owner via the car deck upon redelivery.
- 583.2.1, Life rafts cradles shall be removed for return to the owner or scrape.

Section # 600, In the water.

- Demolition of the joinery will begin under Jamestown Marine Supervision. The 02 deck perimeter, under the pilot house, and the pilot house will be the first areas to facilitate exterior rail burned off and PH removal.
- Mahogany Name boards should be removed for safe dry Storage.
- The original Builders Plate should be removed for safe keeping.
- 612.1.3, The exterior Rail will begin.
- 613.1, The vessel mooring lines shall be replaced with shipyard mooring lines. The owner's lines shall be placed in safe dry storage out the vessel out of the sun.
- 635.1.4 Senesco or the Insulation contractor will begin rip out of the car deck overhead.
- Senesco can remove all of the exterior deck chairs for disposal.
- The pilot house super structure can be flushed off.

ON THE DOCK WORK

PRELIMINARY MASTER CONSTRUCTION SCHEDULE

MARTHA'S VINEYARD, contract # 15-2016

TO BEGIN BETWEEN 23 & 29 SEPTEMBER

The list above of "In the water work" will continue out of the water if not complete.

The list below will start when the vessel is: "On the Dock/Out of the Water"

GENERAL REQUIREMENTS; scheduled dry-docking.

- 001.3.3, Conduct a pre-dry-docking conference 3 days prior to haul out between the OREP and Senesco .
- Open and ventilate any tanks not already open.
- Recertify the gas free certificate.

- Hook the fire lines back up.
- Re-hook up the shore line.
- 004.2.2.1, Reinstall two gangways.
- 004.2.2.3, Install the stair tower.
- 004.2.4.1, Install a fire line with freeze protection when needed.
- 001.3.7, Install Grounding.
- Set up the blast curtains and hay-bail water barriers.
- 003.3.1.1, Drop all screens, zincs, covers and anodes. Wash the covers, label and retain.
- 003.3.2.3, Wash the grid coolers before removal and return to the owner.
- 003.3.2, Set up and start 4000 PSI blast of the underwater hull.
- 002.3.2, Have the vessel UT/audio gauged **as soon** as possible for USCG Steel renewal approval.
- Cut holes in the bottom for safety, easement, hoses, ventilation, & blasting vacuums

ITEM # 500 SEAVALVES

- Remove all sea valves immediately after 4000lb pressure wash of each sea chest. Follow procedures in section # 005 for their respective overhauls. See appendix "C" for valve descriptions.

ITEM # 006 SHAFTS, BEARINGS, SEALS & COUPLINGS

- 006.3.1.1, Take clearances on all bearings after 4000 lb. pressure wash of the general area. Report the finding to the OREP.
- Remove/take down the shafts if directed by the OREP and transport them for repair.
- Shaft couplings, same procedure.
- Cutlass Bearings, same procedure.
- Shaft seals, same procedure.

ITEM # 007 PROPELLERS

- Same procedure as above 006 Section.

ITEM # 008 RUDDERS

- Measure rudder bearing clearances and report to the OREP.
- Drop the rudders and proceed as described above.

Section # 100 Hull Structure, WORK TO START ON THE DOCK

- All work started in the water can continue if not completed.
- Under water plate renewal will begin based on UT Gauging Results and USCG approval.
- Steel repair and renewals above and below the freight deck will take place. Steel preservation/paint of the same will follow as it is completed.
- Major structural demolition of the superstructure and ventilation trucks can begin.
- Pre-fabricated Mods will begin to be installed with preservation coatings to follow.
- Bow thruster and sea chest work will commence as dictated by the spec and sole source provided vendor, UT findings, USCG and the owners rep.
- Superstructure steel work renewal in way of the windows begins.

APPENDIX "A" COATINGS

- Work should start immediately based on trade interference.
- Areas of concentration will be the underwater exterior, tanks, voids and spaces below the car deck, machinery spaces, complete blast and shop prime of the 02, 03, and PH roof to allow burn off of structure and renewals of new structure.

Section # 200 Mechanical: Work to start on the dock.

- 237.0 Bow Thruster Overhaul work will commence immediately. This work is expected to take (2-3) weeks.
- 243.0, The Reduction gears will hopefully be already out of the boat. This will allow steel inspection below their foundations and coating as needed. They will be moved to mutually agreed upon shop for overhaul.
- 256.1, The grid coolers will be dropped, washed and crated for return to the owner. The bottom where the cofferdam was will have a flange welded in, with protruding bolts to receive the new flanged coolers, with internal new internal sea valves. This will include (2) main engines, (2) reduction gears and (3) diesel generators.
- 259.0, The 3rd Generator exhaust piping and overboard sea valve shall be installed on dock.
- 256.1, One, new grid cooler system will need to be installed for the third generator in the machinery space.

Section # 300 Electrical work continued on the dock.

- Execution of the entire Electrical section will begin as trade interference permits.

Section # 400: Work to start on the dock.

- 424.0.1, Remove and insert the hull where the two existing transducer high hats presently are.
- 423.0.6 & 423.0.7, Install two new transducers either side of the center line below the thruster engine.

Section # 500, Work to start on the dock.

- 526.0.3, Main deck scupper drain work should start P & S of the forward freight deck doors.
- 528.0.5.3, All new tank foundation work should commence before tank/space paint operations begin.
- 528.0.5.4, CHT tank interior coating work can commence.
- 528.0.6, Install the new CHT tank foundation in the bilge below the new triple crew head area along with the pump foundations before blasting and painting operations begin in the space.
- 528.0.6.2, The drain and heating piping will need to be R & R-ed in the new CHT space to allow CHT installation and painting and blasting to occur.
- 583.1.4.1, The new rescue boat location foundation work should start as soon as the joinery is taken down inside on the overhead of the 02 deck.
- 583.1.4.2, The new perimeter hand rail doublers and pipe uprights should be welded on before blasting and painting operations begin.
- 583.1.4.4, New IBA Rack foundations should be put down before painting and blasting. The actual racks will not go on the boats until the vessel is near delivery.
- 583.1.4.11 & 583.1.4.12, The new rescue boat door installation at frame # 4 can begin.
- 583.1.4.13, The two rescue boat foundations for the boat on aluminum cradles can be welded down before painting and blasting operations begin.
- 583.2.1, LSA slide hot work should start before blasting and painting.
- 583.2.7., New stack and box storage locker hot work may take place before blasting and painting.
- 585.0.2, Port Elevator trunk structure should start.

SECTION # 600: WORK TO START ON THE DOCK.

- Start hot work to support joinery backup.
- 631.1.5, Machinery space blasting and painting operations can begin based on completion of hot work per individual space.
- 634.1 Demolition of all deck coverings should begin with 03, then 02 where the aft bulk head is coming out, then under 02 windows, 02 deck, then under 01 windows and

decks. This order of work is to stay ahead of the steel demolition and possible renewal required.

- Removal of the structure to begin mod installation but not limited to: Windows, Doors, Bulkheads, on the exterior hull above the water.

MARTHA'S VINEYARD

PRELIMINARY MASTER CONSTRUCTION SCHEDULE

15 OCTOBER 2017/ 2-JANUARY-2018 LAUNCH

GENERAL PREFACE: The tasks not complete from the prior two chronological sections that is not complete will be carried over for completion in this section.

APPENDIX "A" COATINGS: WILL FOLLOW THE TRADE AS INTERFERENCE PREVENTION PERMITTS.

- The car deck will be blasted and painted over Christmas.
- The pilot house structure needs to be painted out by 15 NOV.
- The new structure behind the joinery on all decks needs to be painted prior to Dec1st.
- SEE section 600 for the paint schedule behind/underneath the new window structure.

ITEM 003

- 130 new hull anodes will be installed prior to 12-30-17.
- New anodes will be installed on the 7 keel cooler systems prior to the keel cooler pressure test in November.

Section 100 Hull modifications:

- Foundations for but not limited to: 3 generators, switchboards, CHT system, consoles, water-tight doors, new hot water heaters need to be complete by NOV1st.
- Port anchor pocket closure, capstan foundations, sliding water tight doors, main deck watertight doors, capstan bases need to be complete by December 1st.
- LAS slide structure mods, Ventilation trunks, rescue boat door, service port door, joiner door back up structure, window inserts, house extensions, Mast foundation spool pieces, and Masts need to be complete by November 15th.
- The soft patches on the car deck level can be prepped for closure after December 1st.

- Electrical Wire ways, penetrations, collars and kick pipes will be installed as called out during this period need to be complete by November 15th
- The new bow door assemblies can be tested.
- All antenna brackets and foundations need to be on the pilot house roof by November 10th.
- Bow and Stern door testing will take place by DEC 1st.

Section 200 Mechanical:

- Bow thruster work should be close to complete 1 NOV..
- Reduction gears will be reinstalled based on trade interference, but before the generators. This will take place before November 20th.
- ITEM 006: Shafting should be complete by NOV 5th.
- The capstans and bow door hydraulic hoses can be installed before December 20th.
- ITEM 007 Propellers shall be reinstalled by November 10th.
- ITEM 008 Rudders shall be reinstalled by November 13th. They will be test swung on the dock with and without tillers. They will be test run with all gear hooked up prior to launch.
- The new grid coolers shall be installed by November 10th.

Section # 300 Electrical:

- The new switchboards shall be in the boat by 1 December. Sub panel termination to follow. Generator termination by December 15th.
- Hot water heaters should be rigged in at the same time as the switchboards.
- Installation Branch circuits and subpanels for sections 300, 400 & 600 will be on going during this time period.
- The Emergency generator switchboard will be rigged in and installed. The E-generator will be rewired to 480VAC.
- The vessel transformers being renewed will be installed in this time frame.
- The ships batteries will be re-installed and charged for final evaluation before launch.
- The Capstan Motors will be reinstalled.
- The new search lights can be installed on the pilot house.
- Lighting will go in as the joinery is complete.
- MSE will pull wire into the Pilot house prior to 15 NOV.
- MSE will pull all wire to the 02 & 03 decks prior to 1DEC.

Section 400: Alarms, Navigation, Communications.

- By 15 NOV- MSE will have all wire pulled for all vendors to the pilot house.
- 15 Nov -The pilot house will be given to the joiners.

- 4 DEC – The pilot house will be turned over to, Bardwell, Marcon, Securadyne and MSE again.
- 1-DEC MSE will have all wire pulled to the electronic control room.

Section 500

- The piping, and HVAC systems above the car deck in this section need to be completed prior to December 1st in order to allow the joiners to complete their work on the above decks.
- The systems from the car deck down need to be completed by December 15th.
- The insulators will be given the car deck on 16 December.
- ALL other Section 500 work below the car deck will be complete by December 31st.

Section 600

- **Sept 29 Continue to strip the floor coverings form the top of the vessel down.**
- **Paint has to precede all window installations.**
- Widows installed on the 03 level by 8 NOV.
- 15 NOV-The joiners will be given the pilot house 03 level.
- 1DEC-3- DEC, Flooring 03 level
- **FLOORING** on the other levels will be worked in according to the joinery completion by section.
- Windows installed on the 02 level by November 23.
- 1 DEC - The joiners will be given the 02 deck.
- 10 DEC- The joiners will be given the 01 deck Starboard.
- Window installed on the 01 deck level Starboard by DEC 3.
- 15 DEC- The joiners will be given the 01 Deck Port.
- Windows installed on the 01 deck level port by DEC 13th.
- 20 DEC- The joiners will be given the Hold deck.

MARTHA'S VINEYARD

MASTER CONSTRUCTION SCHEDULE

2 JANUARY 2018-LAUNCH to 31 JANUARY 18 DELIVERY

- PFDs, Life rings, rescue boats, IBAs, LAS slides, Epirbs put on station starting 1-3-18.
- **Incline experiment.1-4-18**
- Tank closures after the inclining experiment. 1-4-18
- Fuel loaded 1-5-18
- Engine/red gear/shaft alignment confirmation. 1-5 & 6-18
- Potable water taken and flushed with treatment. 1-5-18
- Dock trials begin 1-6-18
- Generator load tests.1-7-18
- Fire equipment systems certification 1-9-18.
- Elevator certification 1-10-18.
- USCG certificate inspection1-11-18.
- Section 900 Sea trials
- Stair treads installed.
- Owner equipment for return loaded on the car deck.
- **DELIVERY 1-30-18**

WS

