MEMO

Casco Bay Lines Serving the Islands of Casco Bay from Portland, Maine

TO: File

FROM: Paul D. Pottle, Director of Projects

DATE: August 1, 2023

SUBJECT: Construction Progress-Photos for New Vehicle/Passenger Ferry at Senesco - #3

To follow up on the earlier progress memos, this one shows where the shipyard is in advancing the construction of the new ferry for Peaks Island as of the end of July 2023. Work continues to move along at a good pace and the vessel is still on schedule to be delivered to Maine in June of 2024. The last two months saw three of the modules welded up and moved out into the assembly yard or paint shelter and two other modules are well underway. When the first five modules are done, they will make up the hull portion of the ferry. Modules after that will be used to construct the structure (upper decks) of the vessel.

The following is a brief overview of the work done from June 1st to July 31st of 2023:

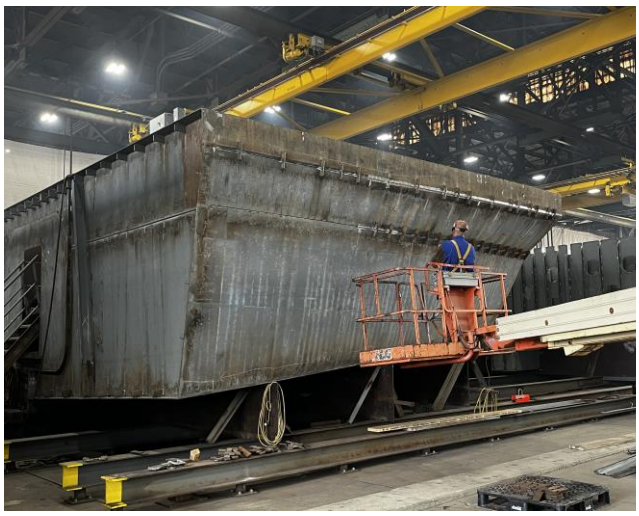
- Crowley Engineering continues to work on plan development for both US Coast Guard submission and for the shipyard to follow for actually building the vessel.
- Submissions continue to be responded to or accepted by the US Coast Guard (Marine Safety Center).
- Module 3 accepted and moved to the paint building for the primer coat and now sits in the assembly area of the yard. Some of the piping work will be advanced and as other modules are ready, they will be aligned with one another, and assembly of the modules will commence.
- Module 2 was also completed, moved to the paint building for a primer coat and also sits in the assembly area. Work on piping will also begin soon on the module prior to assembling with module 3.
- Module 4 was completed and has been moved to the paint building for a primer coat of paint before being moved to the assembly area.
- Module 1 had the keel and bottom plating laid and is now in the process of having the bulkheads installed.
- Module 5 has the falsework frame established and is in the early stages of having the keel and bottom plating assembled to support the bulkhead work.
- Work on the Navis Model is currently being finalized and when done, the drawings will be sent to the fabrication shop for the cutting of shapes and pieces to support its assembly. The Jig (falsework frame) will also be started for assembling the module.

The shipyard continues to make submissions and order materials and equipment for the vessel. Now that the orders have been placed on the longer lead time items, they have focused on the other pieces of the vessel.

There was an issue that arose with the Energy Storage System during this period. The battery supplier notified the propulsion provider that they were dis-continuing their marine battery division and would not be supplying the batteries for this project as agreed to. This created a fair amount of concern for the team since this manufacturer was the only US supplier at the time of bidding. Recently, two other battery manufacturers have opened facilities in the US and after careful evaluation of what was available, we chose to go with Corvus Energy. Their systems is similar in regards to overall safety

features and would fit within the currently designed and constructed spaces. There will be some minor modifications required to be made of the vessel and the cooling system will go from a water cooled to an air cooled system that will require upsizing the cooling system on the vessel. They will be able to maintain the same delivery schedule as the other firm, so we do not anticipate a delay to the project at this time. All of the parties are working closely together to resolve this issue and minimize any impacts on the project.

Additional update memos will follow as the work progresses so that those interested in the work can follow along without having to be at the shipyard.



Pic 2683 – Module 2, welding hull flare near deck level

Pic 2684 – Module 4 bulkheads being installed

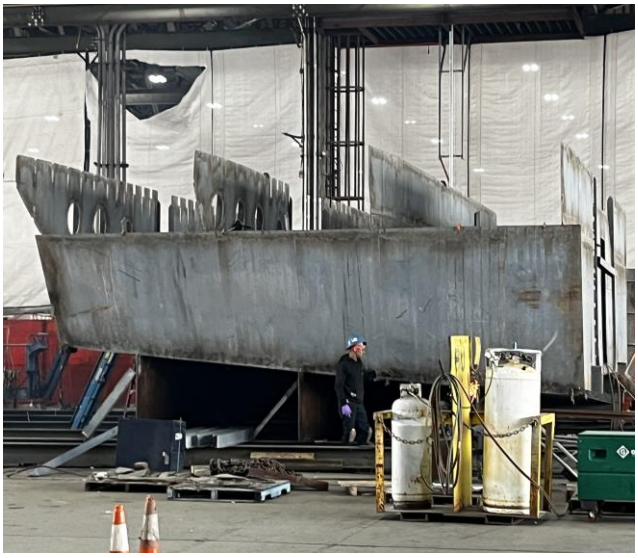
2685 – Module 4 bulkheads

2686 – Fuel Tank for Module 4

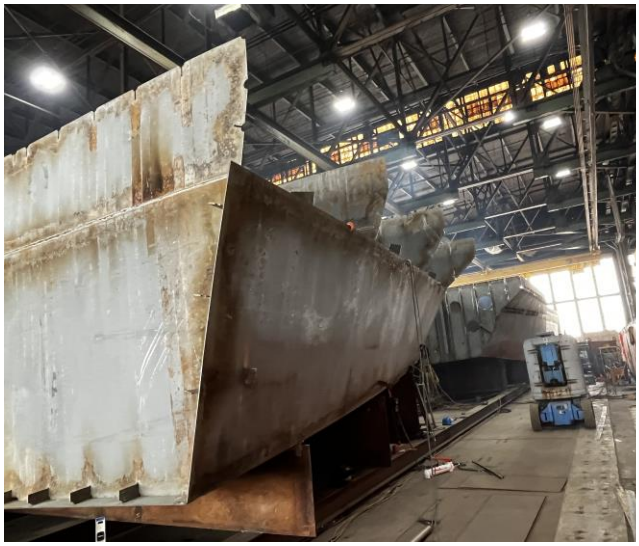
2687 – Module 3 far left, Mod 2 in middle and Mod 4 bulkheads on right

2689 – End view of Module 4

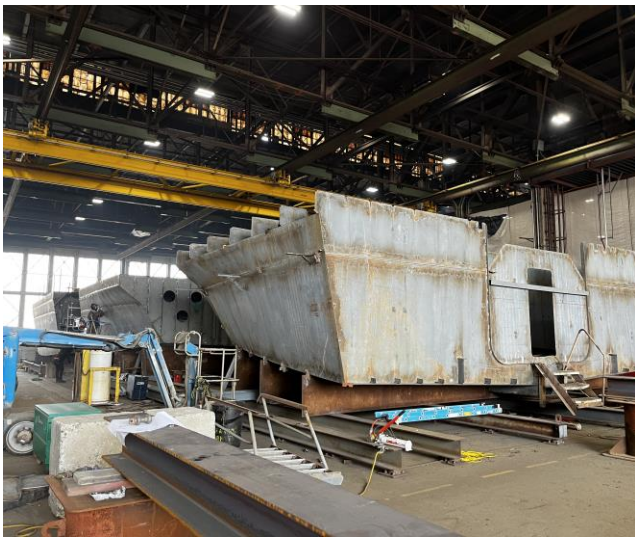
2692 – Hull side plating being installed on Module 4



2693 – Hull side plating on Module 4

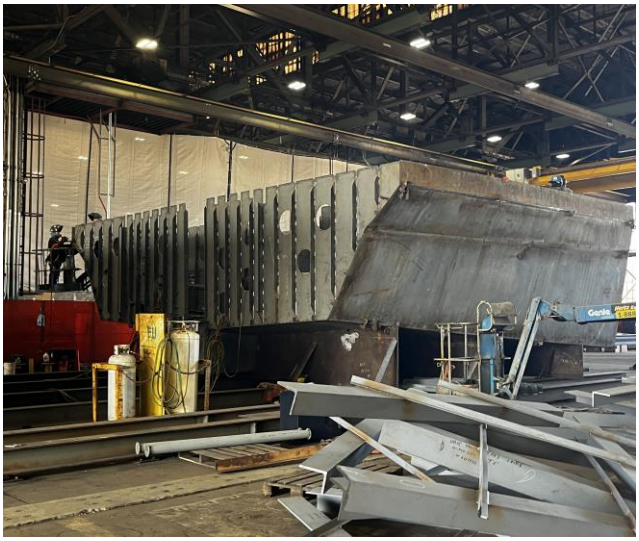


2695 – Hull side plating for Module 4



2730 – Starting Hull flare at deck on Module 4

2733 – Module 4 Flare at deck

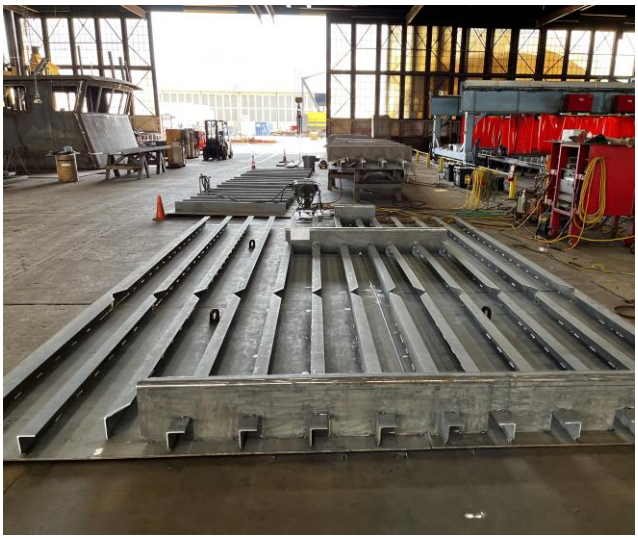


2734 – Module 4 Flare at deck

2737 – Assembled Main Deck section for Module 4

2738 – Assembled Main Deck section for Module 4

2739 – Main Deck section ready to be flipped and placed on Module 4



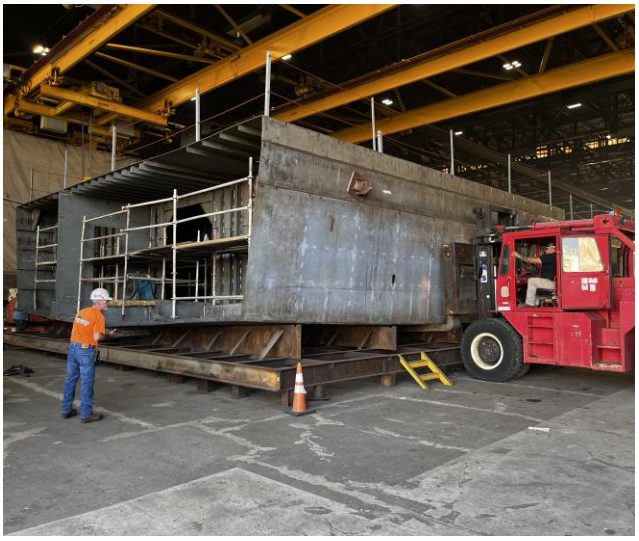
2751 – Main deck sections (3 total) for Module 4

2752 – Main Deck section for Module 4

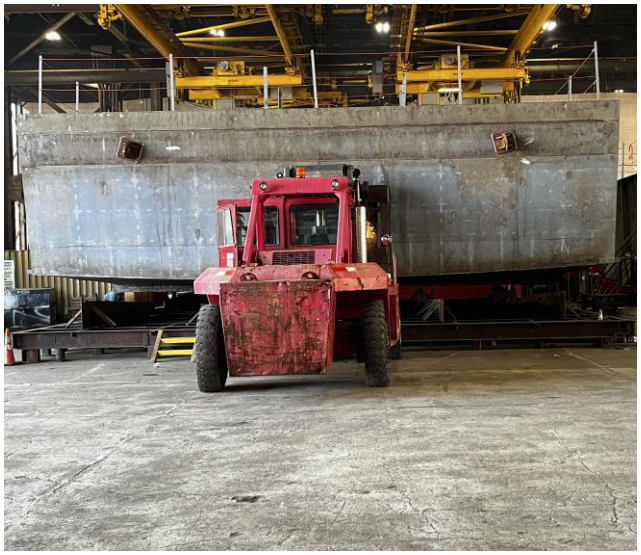
2761 – One section of Main Deck placed on Module 4

2763 – Main Deck Section for Module 4

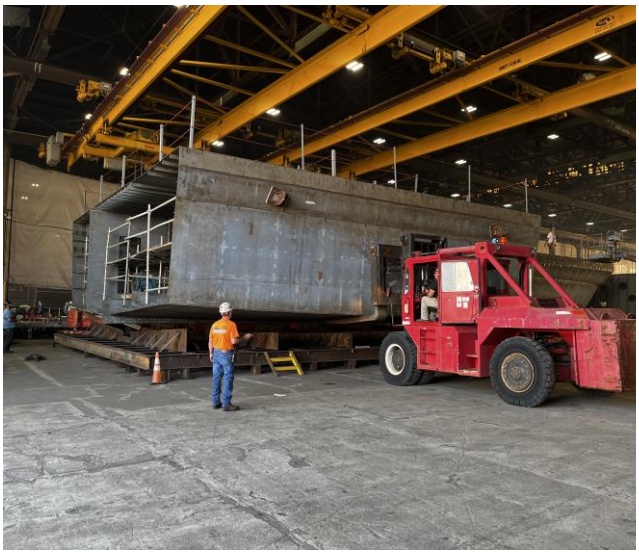
2764 – Bottom Plate cut for Module 1



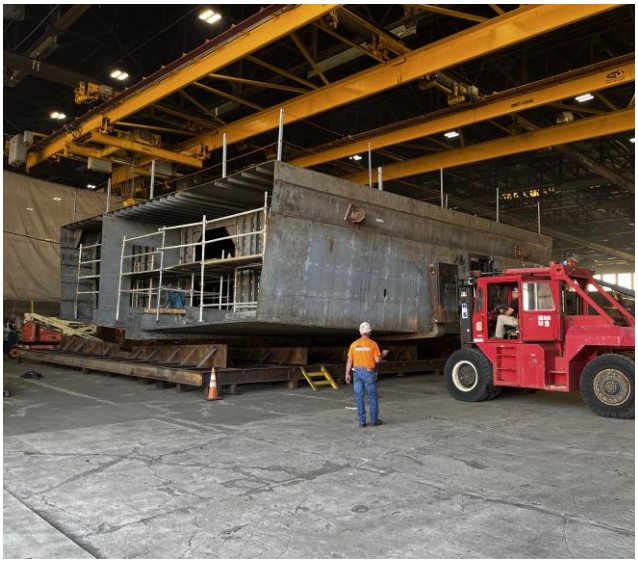
2804 – Moving Module 3 out of Fab Shop



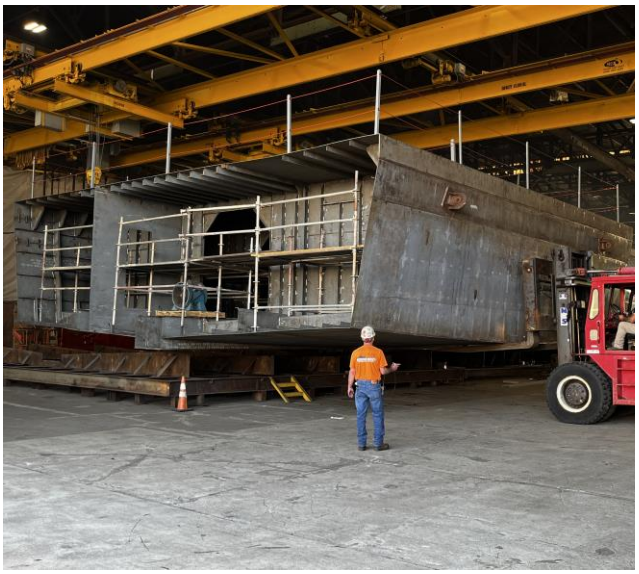
2805 – Moving Module 3 (forklift is called Big Red)



2807 – Moving Module 3 into position for transport trailer



2808 – Moving Module 3 into position

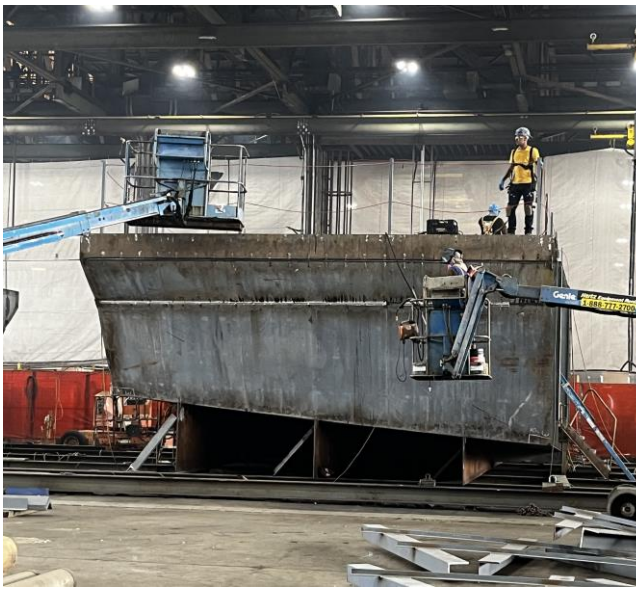


2809 – Module 3 half off of the Falsework Jig

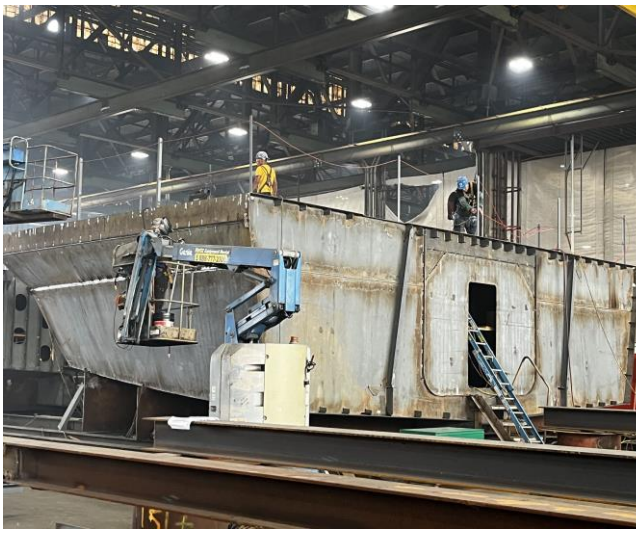
2811 – Module 3 ready for transport trailer

2812 – Transport Trailer (called Shirley) being moved into position

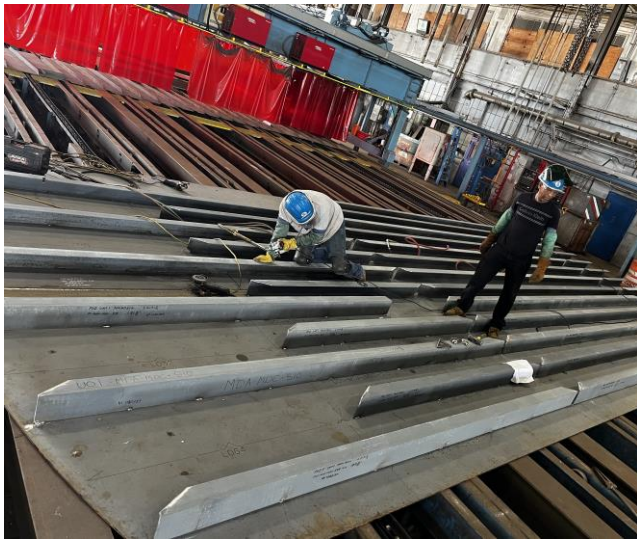
2814 – Transport Trailer being slid under Module 3



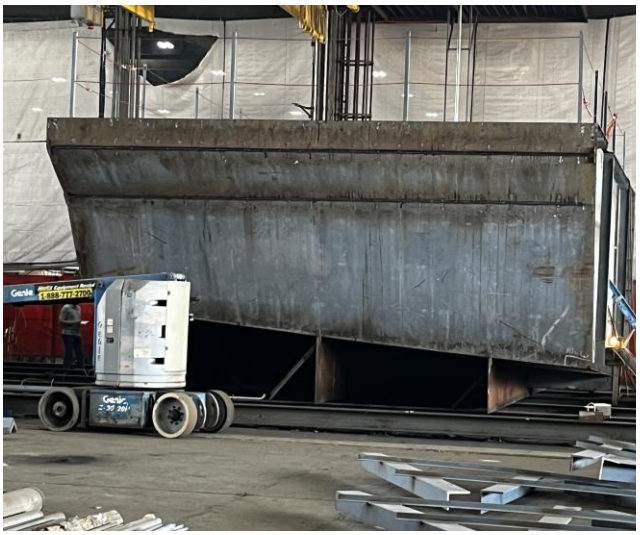
2825 – Module 4 flare being welded and main deck in place



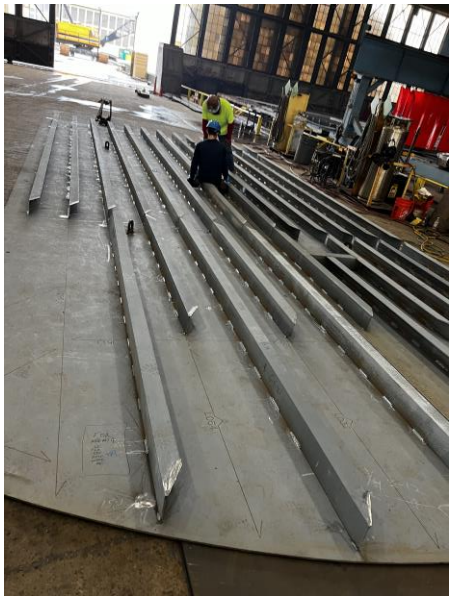
2826 – Module 4 flare being welded and main deck in place



2835 – Main Deck for Module 1

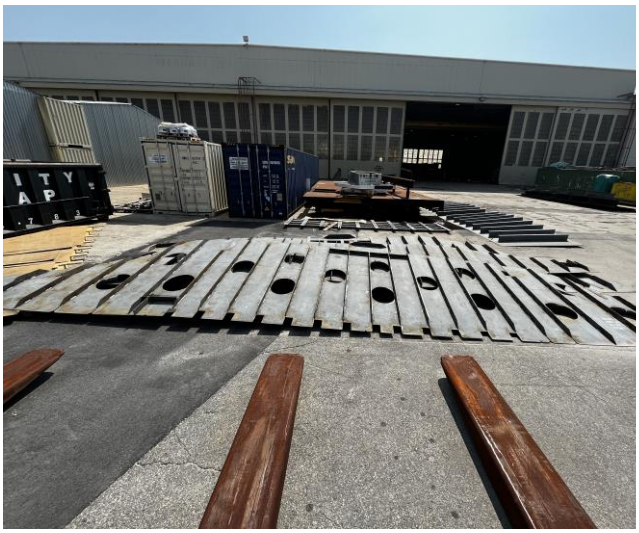


2836 – Module 4



2875 – Module 1 center portion of main deck

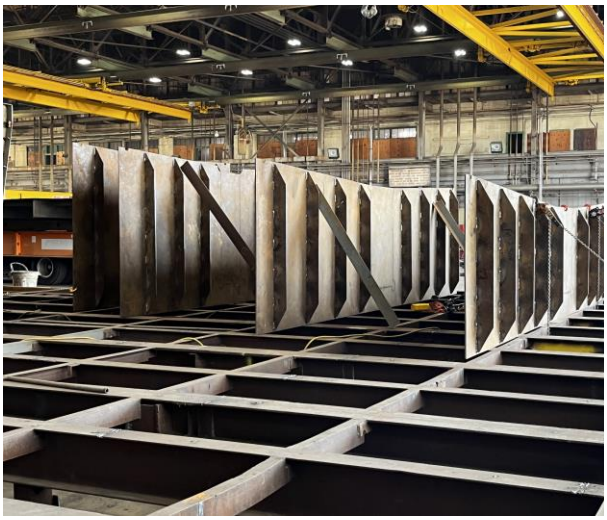
2877 – End Section of Module 4



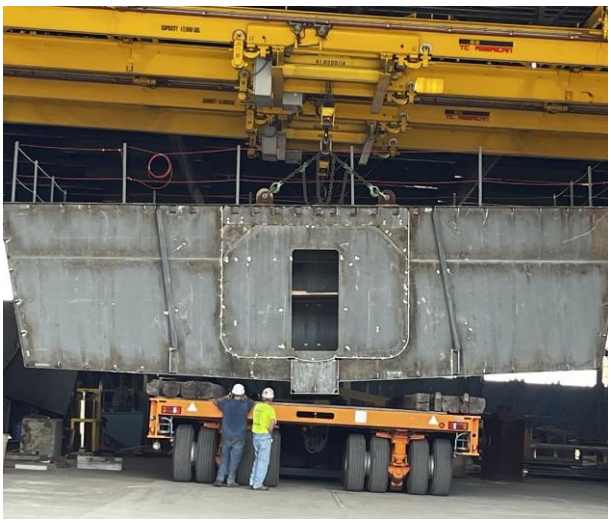
2879 – Module 1 bulkhead in yard

2880 – Module 3 primed and in assemble area

2882 – Falsework Jig for Module 1



2883 - Falsework Jig for Module 1



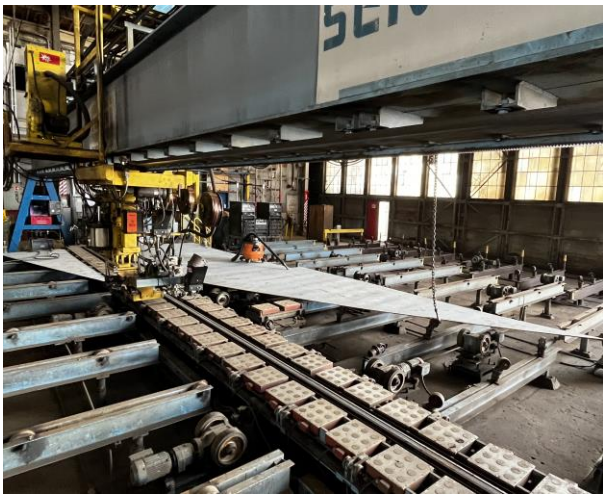
2889 – Module 2 being loaded for transport to paint shed

2890 – Module 2 in the paint shed

2925 – Module 1, first bulkhead set

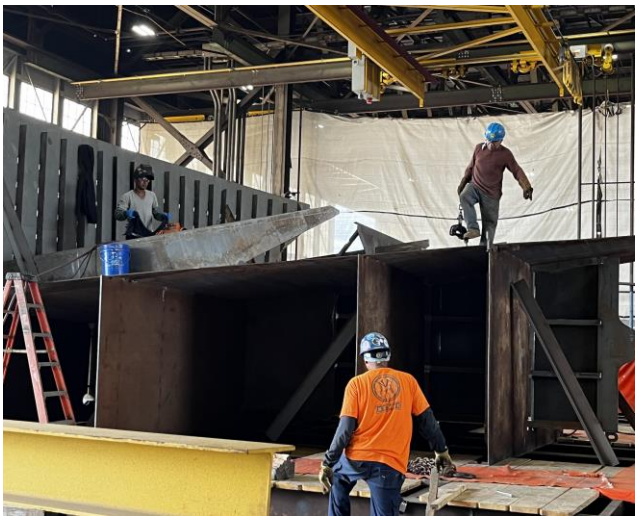
2926 – Module 1, first bulkhead set

2927 – Bottom shell plate for Module 5

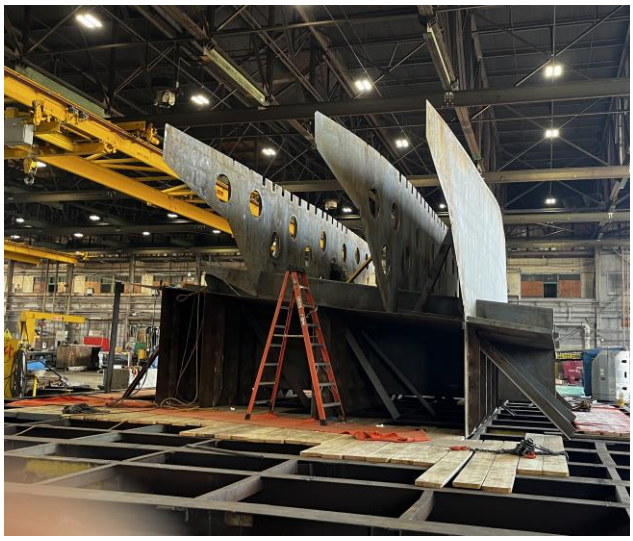


2928 - Bottom shell plate for Module 5

2929 – Bulkhead for Module 1 ready to be lifted into place

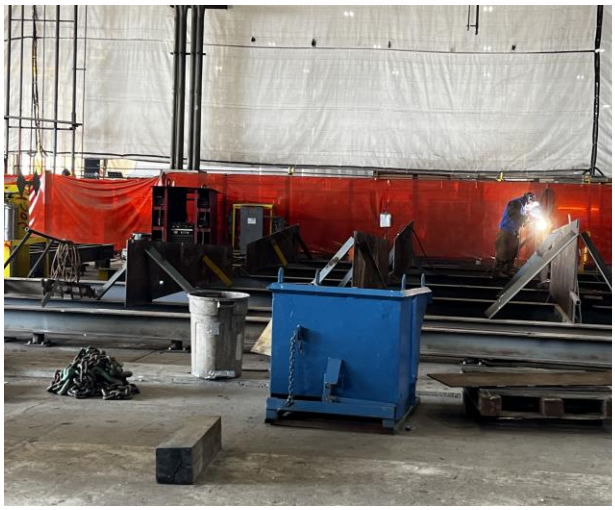


2930 - Module 1 being prepped to receive bulkhead section



2933 – Module 1 with multiple bulkhead sections in place

2935 – Module 1 , see point of the bow in bottom plating



2931 – Falsework Jig for Module 5 being set up

2936 – Module 2 & 3 outside in assembly area, primed

2937 – Module 2 & 3 outside in assembly area, primed

2938 –Module 2 in Assembly area

2939 – Module 2 Hull in assembly area

2940 – Module 2 Hull in assembly area

2941 – Trailer (called the Turtle) moving bottom shell plating for Module 5 from the cutting area to the fabrication area