

Amendments to

“ATTACHMENT-1 of TECHNICAL SPECIFICATION
For a
168’ KELLY ISLAND PASSENGER/VEHICLE FERRY
for
THE LORAIN PORT AUTHORITY”

The following changes/modifications are made to the specification as indicated below.

Changes are highlighted in *underlined italics*.

WAS

307. LININGS AND PARTITIONS**307.1 Joiner Linings and Bulkheads**

- Provide an integrated system of linings and insulation which will satisfy the requirements of USCG. Passenger wall linings shall be covered with laminated wood grained over marine plywood system, similar to a Decra-guard product, minimum thickness of 3/8". Heads shall be lined with a smooth Fiber-Reinforced Plastic (FRP) over composite panel, minimum thickness of 3/8" and supported as specified by vendor installation manual. All color and décor choices shall be by the Owner.
- Treat all accommodation and control spaces with an integrated system of joiner linings, providing thermal, fire, and acoustic characteristics, as required by ABS and USCG

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IS (Amended)

307. LININGS AND PARTITIONS**307.1 Joiner Linings and Bulkheads**

- Provide an integrated system of linings and insulation which will satisfy the requirements of USCG. Passenger wall linings shall be covered with USCG approved equipment (joiner panels/linings) that are intended for use in passenger spaces. They can either be
 - Laminated wood grained over marine plywood system, similar to a Decra-guard product, minimum thickness of 3/8" (or)
 - Soft core wall system with wood grain film.
 - Or owner approved equivalent.

Heads shall be lined with a smooth Fiber-Reinforced Plastic (FRP) over composite panel, minimum thickness of 3/8" and supported as specified by vendor installation manual. All color and décor choices shall be by the Owner.

- Treat all accommodation and control spaces with an integrated system of joiner linings, providing thermal, fire, and acoustic characteristics, as required by ABS and USCG

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WAS

PART 700 – SHIP’S SERVICES

701. PIPING GENERAL

All piping will be fitted with an adequate number of supports and fastener. Sanitary, wash water and drinking water supply piping 2” and under will be cooper tubing with pro press fittings, brass valves and provided with sufficient unions to disconnect appliances. All other piping will be of steel with slip-on welded flanges and butt-welded fittings over 2”, N.P.T. screwed connection on 2” and under except as specified for the fuel oil system. Valves will be bronze, or iron body bronze mounted.

All fuel oil piping within the fuel bunkers will have flanged forged steel valves and either socket or butt-welded fittings.

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PART 700 – SHIP’S SERVICES

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Black water drainage piping inside the vessel may be USCG/class approved CPVC pipes. Over Board Discharge connections shall meet class/ USCG requirements.

All fuel oil piping within the fuel bunkers will have flanged forged steel valves and either socket or butt-welded fittings.

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WAS

704. Bilge, Ballast and Fire System

The bilge, ballast and fire system shall be designed to meet reference standard standards for materials and installation procedures.

... .. A high water alarm panel shall be provided in pilot house with sensors in compartments with bilge suctions, where required by class.

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IS (Amended)

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One (1) river water wash-down station with hose pipe, 50' x 1- 1/2" size with brass dual-purpose type nozzle, and hose spanner shall be provided. Stow nozzles and spanners in racks adjacent to the hydrant. Stow hoses in racks with lids or keeper straps to retain hoses. Wash down connections will be connected to the 1.5" fire main outlet when required.

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WAS

804. POTABLE WATER SYSTEM

The BUILDER shall provide a potable water system for domestic services. This potable water system shall be in compliance with USCG and local regulatory offices.

... ..

Copper fresh water shall be provided for window washer system. System supply pressure shall be 40 psi at all fixtures. The system shall include the following:

- Two (2) Fresh water pumps, MJS-50 with 0.5 HP 1/60/115-230V ODP motor with 44-gallon model 10050 pressure tank and pressure switch.
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- One (1) level monitoring system will be installed to monitor contents of the freshwater tanks, Blue Sea Systems, M2 OLED Tank Monitors – 1839. All tanks with inspection hatches and drainage ports.
- Three (3) Freshwater wash-down station with hose pipe, hose hangar, 50’ commercial garden hose and nozzle
- One (1) KUUMA Model 11830, 240VAC electric hot water heater, located as close as practical to the heads.

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Technology Associates, Inc.

WAS

806. BLACK WATER SYSTEM

The BUILDER shall provide a complete sanitary system to regulatory authority requirements including all piping, vents and tankage. The system shall include the following:

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Deck pump out station with standard International connections and local start/stop of pump at pump out station.

IS (Amended)

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Deck pump out station with standard International connections and local start/stop of pump at pump out station.

The BUILDER shall also provide a black water supply system for toilets. This supply water system shall be in compliance with USCG and local regulatory offices. Provide a pressurized black water supply system. System supply pressure shall be 40 psi at all fixtures. Piping shall be steel. The system shall include the following:

- *One (1) Black water supply pump, MJS-50 with 0.5 HP 1/60/115-230V ODP motor with 44-gallon model 10050 pressure tank and pressure switch. The black water supply pump suction line shall be connected to the sea chest.*

P2-15 circuit shall feed the black water supply pump via 15 amp breaker.