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	PIIN/SIIN DAAE07-02-C-T060	MOD/AMD P00040
Name of Offeror or Contractor: BOLLINGER / INCAT USA, L.L.C.		

SECTION A - SUPPLEMENTAL INFORMATION

1. Modification 40 is a bilateral modification to definitize Letter Contract Modifications P00027, P00028, P00030, P00031 and P00034 for the requirements of Maintenance, Installation, Repairs, and Warranty that were incorporated on the Theater Support Vessel (TSV-1X) Spearhead during the timeframe of November 2003 through March 2004.
2. Modifications P00027, P00028, P00030, P00031 and P00034 established a total ceiling price of \$4,800,000.00 for the Maintenance, Installation, Repairs and Warranty requirements under CLIN 0012AA through 0012AF. The final definitized settlement is \$2,825,201.00, for the Scope of work in Section C.12.
3. CLIN 0012AA is increased from \$1,481,727.00 by \$892,403.00 to \$2,374,130.00.
4. CLIN 0012AB is decreased from \$100,000.00 by (\$100,000.00) to \$0.00.
5. CLIN 0012AC is increased from \$7,535.00 by \$7,535.00 to \$15,070.00.
6. CLIN 0012AD is increased from \$47,551.00 by \$47,515.00 to \$95,066.00.
7. CLIN 0012AE is increased from \$195,229.00 by \$118,316.00 to \$313,545.00.
8. CLIN 0012AF for Technical Representatives was funded at 100% at \$27,390.00 and remains unchanged.
9. As a result of this modification the value of the contract is increased by \$965,769.00 from \$41,324,739.08 to \$42,290,508.08.
10. Clause I-35 Execution and Commencement of Work is being deleted from the Contract.
11. Clause I-36 Limitation of Government Liability and I-39 Contract Definitization shall be deleted, but there is a problem with the clause database and these clauses cannot currently be accessed to change.
12. The Contractor and the Government hereby acknowledge that any and all claims for adjustment the Contractor may have on the above CLINs are fully satisfied in the above adjustment, and the Government is hereby released from any liability for these CLINs.
13. Except for the changes contained herein, all other terms and conditions remain unchanged and in full force and effect.

*** END OF NARRATIVE A 042 ***

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Name of Offeror or Contractor: BOLLINGER / INCAT USA, L.L.C.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
0012AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>SERVICES LINE ITEM</u></p> <p>CLIN CONTRACT TYPE: Firm-Fixed-Price NOUN: TSV MAINTENANCE ANNUAL PRON: P146P0402T PRON AMD: 14 ACRN: AK AMS CD: 65480446100</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>30-SEP-2004</td> </tr> </table> <p style="text-align: right;">\$ 2,374,130.00</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	30-SEP-2004	1	LO		\$ 2,374,130.00
DLVR SCH		PERF COMPL												
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	30-SEP-2004												
0012AB	<p><u>SERVICES LINE ITEM</u></p> <p>CLIN CONTRACT TYPE: Firm-Fixed-Price NOUN: TSV MAINTGROWTH WORK PRON: P146P0372T PRON AMD: 01 ACRN: AK AMS CD: 65480446100</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>30-SEP-2004</td> </tr> </table>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	30-SEP-2004	1	LO		
DLVR SCH		PERF COMPL												
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001	1	30-SEP-2004												
0012AC	<p><u>SSDG SPECIAL TOOLS</u></p> <p>CLIN CONTRACT TYPE: Firm-Fixed-Price NOUN: TSV GENERATOR TOOLS PRON: P146P0422T PRON AMD: 02 ACRN: AK AMS CD: 65480446100</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	1	LO		\$ 15,070.00									

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C. 10. CARGO HANDLING SYSTEM (CHS)

1. BACKGROUND:

The Army currently leases a vessel, known as the Theater Support Vessel (TSV-1X), Spearhead as part of the Advanced Concept Technology Demonstration (ACTD). This high-speed catamaran is based on commercial technology with the capability of transporting 550 tons of cargo at speeds up to 40 knots. During this ACTD phase, the Army discovered that the cargo handling capabilities are not sufficient to meet the Armys needs. This vessel needs an integrated cargo delivery system that will enhance the rapid upload and download of palletized (463L), containerized, Container Roll-In/Roll-Out Platform (CROP)-based, rolling stock and air-based cargo to support the Armys mission. The desired system must be a true inter-modal, modular, lightweight distribution platform that can reduce the need for transportation assets (Material Handling Equipment (MHE)), while increasing the commonality of cargo distribution platforms.

2. REQUIREMENTS:

- a) The contractor shall design a CHS as described below.
- b) The contractor shall manufacture a CHS according to the requirements set forth below.
- c) The contractor shall install the approved CHS in the TSV-1X.
- d) The contractor shall provide all the necessary labor, material, supplies and facilities to design, manufacture and install a Container Handling System (CHS) as described below. The CHS shall:
 - i.) Incorporate an integrated means of handling 463L pallets, 20' ISO containers and rolling stock. This capability must be compatible with military air-based cargo handling systems, including the Crop Aircraft Interface Kit (CAIK) and the Flat rack Aircraft Interface Kit (FAIK). The CHS must be lightweight, easily removable/reversible, or can be stowed in the floor, to provide a cargo floor for loading both rolling and tracked vehicles. It must be self-sufficient to the extent that the 463 L pallets and 20'ISO containers can be loaded/off-loaded from the craft (TSV-1X), without any need for mobile cranes, forklifts, container handlers, etc.
 - ii.) Include inboard and outboard restraint rails, which limit lateral and vertical movements and lock assemblies to restrain fore and aft movement of the load.
 - iii.) Provide the means by which the fully loaded containers, 463L pallets and CROPs can be transferred onto the vessels cargo bay, without the use of mobile cranes, forklifts, and container handlers.
- e) The contractor shall provide all necessary installation instructions for all aspects of the CHS described above.
- f) The contractor shall provide all necessary operating instructions for all aspects of the CHS described above.
- g) The contractor shall provide all applicable load distribution criteria for CHS described above.
- h) The contractor shall provide detailed cost breakdowns for all major components of the complete CHS design. For example, depending upon the design selected, major components could include: loose ramp, quartering ramp, modular floor sections, rail sections, etc.
- i) The contractor shall provide a detailed spare parts list for the Load Transfer Device and all related spares for the Cargo Handling System. The list is found in Attachment 004.

3. TEST REQUIREMENTS:

- a. The Contractor shall provide a self-sufficient CHS, as described above. The Government shall provide a flatbed truck or flatbed trailer, which are the required loading points and a 463L pallet and a loaded 20 ISO container for this testing. The contractor must demonstrate the cargo handling systems effectiveness prior to final acceptance by performing the following:
 - i.) Loading 20' ISO containers (loaded)/463L pallets and rolling cargo on-board the vessel from initial load point without use of MHE. When this loading process is completed with all of the cargo listed above, then record the time of the complete loading process.
 - ii.) Demonstrating the multi-directional movement of the cargo listed above.
 - iii.) Off-loading of the same combinations of cargo as above and record the time of completion.
- b. Successful completion of the testing described in this section is required for final acceptance of the CHS by the Government.

4. REQUIRED DELIVERY DATES/DELIVERABLES:

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Start of Work Meeting-15 days after award

Preliminary Design Review of the CHS--30 day after award.

Draft Test/Demonstration Plan- 30 days after award.

Delivery of completed CHS, location TBD---180 days after award.

Note: Installation location and vessel availability TBD, will be negotiated within this 180 days.

Final Test/Demo)---Within 2 days of completed installation. Test report within 30 days.

Installation Instructions (see 2(e))-180 days after award.

Operating Instructions (see 2(f))---180 days after award.

Load Distribution Criteria (see 2(g))-180 days after award.

Loading and Off-Loading Times for Cargo during Demonstration Report (see para. 3 above).

5. Government Furnished Property: The Government shall provide all equipment required for the initial load point demonstration.

6. DELIVERY: The Contractor shall complete all of the work described in this SOW, which includes the deliverables, and the design, manufacture, installation and testing of the CHS IAW para. 4.

C.11 T-FOIL AND INSTALLATION

- a) The contractor shall procure the necessary components, equipment and materials comprising the ride control center bow T-foil system.
- b) The contractor shall provide the labor, materials, supplies and facilities necessary to install, commission and test the center bow T-foil system.
- c) The contractor shall provide all necessary operating and maintenance instructions for the center bow T-foil system described above.
- d) The contractor shall demonstrate the performance of the center bow T-foil system and shall obtain Classification Society approvals as necessary.

C.12 TSV Maintenance**C.12.A TSV Annual Maintenance, Repair and Warranty****C.12.A.1 Fuel Tanks Cleaning, Inspection and Testing**

C.12.A.1.1 The Contractor shall make removals a required to pump out all fuel and sludge from all main engine day tanks and long range fuel tanks. The Contractor shall then pump out all fuel and sludge from all main engine day tanks and long range fuel tanks. The Contractor shall properly dispose of all sludge and waste fuel in accordance with state and local laws. The Contractor shall provide temporary storage containers for removed fuel. The Contractor shall wipe down interior surfaces of main engine day tanks and long range fuel tanks thereby removing all fuel oil and sludge residue to lint free condition.

C.12.A.1.2 Upon satisfactory completion of fuel tank cleaning, a joint Government/Contractor inspection of all tanks shall be performed. The Contractor shall provide all labor and perform all required DNV inspections prior to return of fuel. Upon completion of all required inspections the Contractor shall notify the Government COR for final inspection and closure of each fuel tank.

C.12.A.1.3 The Contractor shall provide all labor, material, equipment and perform a 2 PSI air test on each fuel tank for 10 minutes in the presence of the COR. Upon satisfactory completion of air tests on each fuel tank, the Contractor shall return removed fuel to each tank and reinstall all removals.

C.12.A.1.4 All returned fuel shall pass through a 10 micron filter prior to entry into fuel tanks. The Contractor shall take a fuel sample and provide laboratory analysis for sediment and water content and provide report to COR.

C.12.A.1.5 The Contractor shall leave fuel tanks ready for service.

C.12.A.2 Stern Ramp Inspection and Repairs

C.12.A.2.1 The Contractor shall make removals a required and perform inspection of the entire stern ramp and ancillary systems. The Contractor shall replace all deteriorated hydraulic hoses and perform all required repairs for the proper operation of the stern ramp. The Contractor shall make all necessary repairs to the stern ramp to make it fully functional, which includes an allowance for replacement of approximately 50% of hydraulic pipes and cylinder bushings.

C.12.A.2.2 The Contractor shall provide all labor to perform all required DNV inspections.

C.12.A.2.3 Upon completion of all repairs and inspections, the Contractor shall operate the stern ramp. This is done to insure fit, form, and function. This operation shall consist of raising and lowering the stern ramp a minimum of 4 times in the presence of the COR. The Contractor shall furnish all labor, equipment, and supplies, and perform a load test for 30 minutes with the COR in attendance. Upon completion of all tests the Contractor shall leave the ramp ready for service.

C.12.A.2.4 Upon inspection by the Contractor and/or DNV, additional maintenance effort may be required that is above and beyond the effort stated in C.12.A.2.1, C.12.A.2.2, and C.12.A.2.3. If additional work is required, the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.A.3 Overhead Molding Replacements

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C.12.A.3.1 The Contractor shall make removals and reinstallations as required to include replacement of damaged section of overhead molding adjacent to fire sprinkler access in forward PAX level port side. This is estimated to be approximately 10 linear feet. The Contractor shall furnish all labor, materials and equipment to perform repairs, as well as reinstall all removals.

C.12.A.4 PAX Seat Replacement

C.12.A.4.1 The Contractor shall make removals and reinstallations as required to replace the forward PAX level starboard side, second row, second seat. The Contractor shall furnish seat and all securements as required for proper installation.

C.12.A.5 Window Replacement

C.12.A.5.1 The Contractor shall make removals and reinstallations as required to replace the crew area port side aft passageway glass window that is broken located on mezzanine deck.

C.12.A.5.2 The Contractor shall furnish all sealants, fastening materials, and deteriorated weather stripping as required for proper installation of window.

C.12.A.5.3 Upon satisfactory completion of installation of new window the Contractor shall perform a water hose test, for 15 minutes, in the presence of the COR.

C.12.A.6 Freezer Inspection and Repairs

C.12.A.6.1 The Contractor shall provide labor, material, equipment to troubleshoot the refrigerant leak on pantry freezer. The Contractor shall provide a report listing all required repairs for proper operation of pantry freezer. The report shall list all labor, availability of material, and equipment. Based on this report the Government COR will direct any additional repairs to the freezer as noted in the report. The Contractor shall adjust the right hand door on the freezer for proper sealing, elimination of excessive ice buildup, and elimination of door jamming. The Contractor shall also modify existing shelving for proper installation to prevent movement during vessel operations.

C.12.A.6.2 Upon inspection by the Contractor additional maintenance effort may be required that is above and beyond the effort in Section C.12.A.6.1. If additional work is required, the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.A.6.3 Upon completion of all repairs the Contractor shall perform an eight (8) hour operational test of the pantry freezer in the presence of the COR to verify the repairs.

C.12.A.7 Vehicle Deck Fans Repair

C.12.A.7.1 The Contractor shall make removals and reinstallations as required to replace the vehicle deck fan's damper actuator rods. Upon completion of repairs the Contractor shall perform an operational test of the fans in the presence of the COR.

C.12.A.8 Fire Protection Panels Replacement

C.12.A.8.1 The Contractor shall make removals and reinstallations as required to replace defective and damaged overhead and bulkhead fire protection panels as designated by the COR.

C.12.A.8.2 The Contractor shall apply corrosion preventative compound to all bulkheads and overhead fire panels in the vehicle deck. The Contractor and the COR shall inspect the bulkhead and overhead fire protection panels. The panels to be replaced will be designated by the COR.

C.12.A.8.3 The Contractor shall provide all required materials for proper installation of panels and provide all mobile and fixed scaffolding as required for panels removal and reinstallation.

C.12.A.9 Miscellaneous Repairs

C.12.A.9.1 The Contractor shall replace the rail mounted to the exterior of hull near water line, port side aft mooring station pilot door.

C.12.A.9.2 The Contractor shall provide labor, material and equipment to straighten starboard side aft gate located on vehicle deck.

C.12.A.9.3 The Contractor shall replace one (1) orange cone aluminum stand located on vehicle deck, starboard side adjacent to fire door.

C.12.A.10 Hull Cleaning and Blasting

C.12.A.10.1 The Contractor shall furnish all equipment, material and labor to abrasively blast the exterior surfaces of the vessel hull to produce textured effect. The Contractor shall also abrasive blast all exterior surfaces of hull from top of established boot topping up to tier 2.

C.12.A.10.2 Prior to any blasting, the Contractor shall blank off and seal all hull openings, hatches, vents or other openings to the interior of the vessel to prevent entry of blasting material.

C.12.A.10.3 Prior to abrasive blasting, a joint Contractor/COR inspection of temporary coverings shall be conducted.

C.12.A.10.4 Upon completion of all abrasive blasting, the Contractor shall remove all traces of abrasive blast material from all areas of the vessel and perform touch up painting of boot topping. The Contractor shall also touch up, and feather in, all boot topping for a finished surface. The Contractor will perform a high-pressure wash of the vessel underwater surfaces. If additional work is required, the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.A.10.5 The Contractor shall strike in all vessel designation markings, draft lines, load lines, and Plimsol markings.

C.12.A.11 Warranty

C.12.A.11.1 The Contractor shall complete all bulk warranty items during the maintenance period of the vessel, if possible. If additional work is required, or the work does not fall under the warranty provisions, the Contractor shall contact and coordinate with the COR and/or the PCO for direction.

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C.12.A.12 Job Card Training

C.12.A.12.1 The Contractor shall provide classroom, instructor, and all materials and conduct preventative maintenance (PM) job card task step training. Training shall include all lesson plans to enable student to understand, review, and perform task steps on PM job cards.

C.12.A.12.2 Classroom training shall be three (3) days and shall accommodate six (6) persons per class, each with computer access with computer's loaded with appropriate PM software. Training will be "hands-on" and interactive and will include training on how to update and upgrade the PM system. Upon completion of all training modules the Contractor shall provide all students one (1) hard copy of all lesson plan material and provide one (1) electronic copy to the COR.

C.12.A.13 Ship Service Diesel Generators (SSDG) Special Tools

C.12.A.13.1 The Contractor shall furnish all required manufacturers' special tools for the ship service diesel generators (engine and generator). Perform a joint Contractor and COR inventory of special tools. Provide one (1) hard copy and one (1) electronic copy of inventory results to the COR. Upon completion of inventory stow all tools aboard the vessel in an area designated by the COR.

C.12.A.14 Ship Service Diesel Generators On-Board Spares

C.12.A.14.1 Provide spares for all ship service diesel generator sets (engines and generators) as per the listing (Attachment 3). Perform a joint Contractor and COR inventory of all spares. Furnish one (1) hard copy and one (1) electronic copy of on-board spares list. Upon completion of inventory stow all spares on-board the vessel in an area designated by the COR.

C.12.A.15 Bridge Equipment Installation

C.12.A.15.1 Provide all labor, material and equipment to install one (1) new captain's chair in the vessel's bridge. All materials and installation shall be IAW DNV regulations. Perform a joint Contractor and COR operational test of captain's chair.

C.12.A.16 Non Skid Installation

C.12.A.16.1 The Contractor shall furnish all labor, material and equipment and install non skid on the decks of the port and starboard ante rooms, aft mezzanine, gangway, tool room/bos'n locker, port and starboard jet decks, bow and stern mooring stations.

C.12.A.17 Vessel Berthing

C.12.A.17.1 The Contractor shall berth the vessel at the Contractor's premises for the duration of the TSV-1X Maintenance effort, other than those periods when the vessel shall be dry-docked. The Contractor shall ensure that the vessel is appropriately moored and shall provide security, water, refuse disposal and other services as required.

C.12.A.17.2 The vessel was berthed on November 25, 2003 and is expected to remain berthed until March 1, 2004.

C.12.A.18 Vessel Dry-Docking

C.12.A.18.1 The Contractor shall, IF DIRECTED BY THE PCO, leave the vessel in dry-dock in order to complete the TSV-1X Maintenance effort. While the vessel is in dry-dock the Contractor shall be responsible for all security, shore power, water, refuse disposal and other services as required.

C.12.A.18.2 There is a one month period of dry dock included in Section C.10 for the Container Handling System (CHS). If additional work needs to be done during the dry docking period, the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.A.19 Project Review

C.12.A.19.1 The Contractor shall perform a review of the 310 items listed in the TACOM generated list. This review will involve a selection of individual trade groups such as electricians, welding/fabrication and fitout, as well as a number of external sub-contractors such as engine manufacturers, hydraulic supplier and air conditioning specialists. The review will attempt to determine which of the listed items are scheduled maintenance, warranty or overhaul/upgrade. The review is expected to take 7 days. During this period, the Contractor will provide regular written reports/updates on progress, including its proposed categorization of the listed items and the associated ceiling price ROM. Upon completion, the COR and/or the PCO will advise which items it would like undertaken.

C.12.A.20 Project Management

C.12.A.20.1 The Contractor will perform all project management services required to enable the smooth running of the TSV-1X Maintenance effort, in Hobart Tasmania, from November 25, 2003 through March 1, 2004. This will involve Incat personnel and sub-contractors directly charged both in technical management and commercial management. It will involve the management of labor and material resources to enable on-time completion of the TSV-1X Maintenance effort; accounting for all labor hours, material purchases and sub-contract costs; regular reporting to TACOM of progress including percentage complete; regular teleconferences with TACOM; daily liaison with the onsite COR; compilation of change orders, including impact on cost and/or schedule; final reporting with full details on justification of ceiling priced work items. The Contractor shall also ensure that all work performed is completed in accordance with Incat's QA regime and Section C.12 Scope of Work for TSV-1X Maintenance.

C.12.A.20.2 The Contractor shall prepare and submit a full report at completion of the TSV-1X Maintenance effort detailing all actions undertaken in regards to each work item. This report will include reports from sub-contractors as required.

C.12.B Growth Work Maintenance

C.12.B.1 The Contractor shall provide all labor and material for the TSV-1X, not exceeding a total value of \$100,000.00, to accomplish growth work during the TSV maintenance period for repairs.

C.12.B.2 Individual Work Task Authorization's (WTAs) under this modification shall not exceed a total labor and material cost of

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\$100,000.00 in total value.

C.12.B.3 In accordance with paragraph C.12.B.1, work ordered under this modification shall be agreed to and authorized only by the below listed Government and Contractor personnel.

Government: Mr. James Todt, Contracting Officer Representative and/or Marcia Czar, PCO

Contractor: Mr. Graham Perkins and/or Mr. Chris Bollinger

C.12.B.4 A listing will be submitted, by the Contracting Officer Representative, to the Procurement Contracting Officer biweekly, which will include a description of the growth work, date approved, and cost estimate. Upon final negotiations the listing will be incorporated into the contract, with a description of work and final negotiated cost. Upon incorporation, the Contractor shall then be able to submit invoices for payment.

C.12.B.5 Duplicate logs of all WTAs and a continuous accounting of expenditures for work authorized hereunder shall be jointly maintained by the Contractor and the Government.

C.12.B.6 All Growth Work for the TSV Maintenance effort includes basic maintenance for opening, inspection, and reporting. Upon inspection by the Contractor's Ship Surveyor and/or DNV, additional maintenance effort may be required that is above and beyond the TSV-1X Maintenance effort under Section C.12.A. If additional work is required, the Contractor shall contact the Cor and/or the PCO for direction.

C.12.B.7 A final report, inclusive of all work ordered under this change, shall be submitted by the Contractor. The final report, identified as such, shall be forwarded to Marcia Czar, PCO within 10 workdays of completion of the last work item authorized hereunder.

C.12.C Additional Maintenance Items

C.12.C.1 Underwater Hull Painting

C.12.C.1.1 Contractor shall undertake the painting of the underwater hulls with new anti-fouling paint. This work includes: the tenting (installation and removal) of the hull with tarpaulins for protection; preparation of hulls for primer application; removal of waste materials including environmental charge; scaffolding and cherry-picker hire; supply of International-sourced primer and silicon-based paint; application of primer and anti-foul paint to hulls; finishing of hulls including painting draft marks, etc.

C.12.C.2 Air Conditioning Review

C.12.C.2.2 Contractor shall undertake and perform a review of the vessel air-conditioning systems which will review all A/C arrangements on the vessel with specific reference to : investigation of insulated panels on windows; air flows to ceiling in pax area; air flows to gap between vehicle deck and superstructure; additional power requirements that may be required; A/C in ante-rooms. Furthermore, the Contractor shall provide a report to the COR along with recommendations of remedial work required and the cost involved.

C.12.C.3 Mechanical Review

C.12.C.3.1 The Contractor shall undertake and perform a review of the vessel mechanical systems which will include: oil storage systems; jet room ventilation; duplex fuel system requirements; air filters; purge fans; engine room fans. Furthermore, the Contractor shall provide a report to the COR along with recommendations of remedial work required and the cost involved.

C.12.C.4 Electrical Review

C.12.C.4.1 The Contractor shall undertake and perform a review of the vessel electrical/electronic systems which will include a review of switchboards, electrical loads, load sharing, electronic calibration settings, etc. Furthermore, the Contractor shall provide a report to the COR along with recommendations of remedial work required and the cost involved.

C.12.C.5 Water on anteroom deck - Contractor shall provide additional PVC drains that will be fabricated and fitted on the anteroom decks.

C.12.C.6 Heat Well Set - Contractor shall provide 1 x Hart Scientific Heat Well set.

C.12.C.7 ISIS Channels - Contractor shall perform calibration of ISIS exhaust temperature channels.

C.12.C.8 Safe Operating Mode - Contractor shall provide clarification.

C.12.C.9 ISIS Computer Error - Contractor shall find and rectify the ISIS computer error.

C.12.C.10 Clean & Service Generator windings - Contractor shall remove and replace generators and service windings. Contractor shall ensure that DNV acceptance is obtained and PM system is updated.

C.12.C.11 Generator Servicing - Contractor shall arrange for all four (4) generators to have a full 6000hr servicing, including sea water pumps, heat exchangers, cooling system, provisions of seawater repair kit and injector servicing.

C.12.C.12 Emergency Generator Day Tank - Contractor shall arrange for the emergency generator day tank to be cleaned.

C.12.C.13 Reserved

C.12.C.14 Forward Capstans - Contractor shall modify the forward capstan to allow for easier oil change procedures.

C.12.C.15 Aft Capstans - Contractor shall modify the aft capstan to allow for easier oil change procedures.

C.12.C.16 Jet Room Hoses - Contractor shall install check valves on applicable hoses to hydraulic oil cooler and leaves hoses connected.

C.12.C.17 Accumulator Pressure Test - Contractor shall check and adjust accumulate pressures.

C.12.C.18 Jet Bowl Torque Inspection - Contractor shall conduct an inspection of jet bowl torque and adjust where/if necessary.

C.12.C.19 Pump Servicing - Contractor shall conduct a service of all electric hydraulic pumps and heat exchangers related to the hydraulic systems.

C.12.C.20 Steering, Trim Tab and Bucket Ball Joints - Contractor shall undertake an inspection of all cylinder ball joints. No replacement parts are considered and if required the COR and/or PCO will be contacted.

C.12.C.21 Cristy Grey Mounts - Contractor shall arrange for an inspection and measurement of all Cristy Grey engine mounts. Contractor is not responsible for any replacement mounts. If additional work is required the Contractor shall contact and coordinate with the COR and/or PCO for direction.

C.12.C.22 Vulcan Coupling Measurement - Contractor shall undertake an inspection of the vulcan couplings and measure deflection.

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Contractor is not responsible for any parts associated with worn couplings. If additional work is required the Contractor shall contact and coordinate with the COR and/or PCO for direction.

C.12.C.23 Drawers on Bridge - Contractor shall fabricate and install a new set of drawers on the vessel bridge.

C.12.C.24 Glare from ISIS Monitors - Contractor shall undertake an inspection to ascertain solutions for reducing glare. Contractor shall report findings to the COR. If additional work is required the Contractor shall contact and coordinate with the COR and/or PCO for direction.

C.12.C.25 Bridge Door - Contractor shall undertake suitable repairs to the Bridge door.

C.12.C.26 Pax Fire Door - Contractor shall undertake suitable repairs to the Pax fire door magnetic release.

C.12.C.27 Overhead Panels (Fwd PAX stbd side) - Contractor shall undertake suitable repairs to the overhead panels in the forward passenger area, starboard side.

C.12.C.28 Fire Sprinkler Access Door - Contractor shall undertake suitable repairs to the warped fire sprinkler access panel door, forward pax port side.

C.12.C.29 Port Side Overhead Molding - Contractor shall undertake suitable repairs to the damaged overhead molding on forward pax port side, adjacent to smoke doors.

C.12.C.30 TCR Deck Covering - Contractor shall clean and repair the TCR deck covering.

C.12.C.31 Secure Lighting Plug Sockets - Contractor shall review and secure the light fixtures socket plugs in pax and crew areas.

C.12.C.32 Davit Cable - Contractor shall repair the broken workboat davit quick release handle on port side.

C.12.C.33 Heat Exchanger Servicing - Contractor shall service the reduction gears heat exchanger. Contractor shall update PM system as required.

C.12.C.34 Repairs & Replacements of Refrigeration System

C.12.C.34.1 Contractor shall undertake repairs of pantry and galley refrigeration and freezer units as appropriate, including (if required) the relocation of underbench compressors; removal and replacement of ceilings and SFP; cable relocation/connection including electrical; supply and installation of exhaust grill for upright galley units; plumbing modifications.

C.12.C.35 Oily Water Discharge - Contractor shall investigate oily water discharge piping to ascertain the reason for pressure in the system. Contractor shall report findings to the COR. If additional work is required the Contractor shall contact and coordinate with the COR and/or the PCO for direction.

C.12.C.36 Sounding Caps - Contractor shall replace damaged/worn sounding caps as appropriate and shall fabricate a protective covering to minimize future damage.

C.12.C.37 Stern Ramp Floodlights - Contractor shall replace two (2) internal lighting fixtures on the stern ramp flood lights.

C.12.C.38 Lighting Breaker Tripping - Contractor shall check and repair passenger maintained lights in vessel.

C.12.C.39 Dry Storage Door Closure Broken - Contractor shall supply and install a new door closing mechanism.

C.12.C.40 Galley Food Storage Racks - Contractor shall supply materials and labor to fabricate and install a new shelf on the bottom of existing dry goods storage area.

C.12.C.41 Crew Area Rear Sliding Door - Contractor shall supply four (4) sliding door seals and appropriate hardware and shall install same on rear fire door.

C.12.C.42 Crew Berthing Area Hot Water Cylinder Door - Contractor shall supply materials and door hardware as needed, and labor, to repair the broken hot water cylinder door.

C.12.C.43 Crew Berthing Stbd Shower Door Hole - Contractor shall patch the hole in door only.

C.12.C.44 Exterior Skirting Leaking - Contractor shall investigate and make minor repairs as necessary to fix any leaks in exterior skirting.

C.12.C.45 Deck Drains - Contractor will provide labor and sundry pvc piping to correct the fumes emanating from the deck drains.

C.12.C.46 Void Access Cover Gasket - Contractor shall provide materials required for the repair of the torn gasket on the vehicle deck void access cover.

C.12.C.47 Replace Stbd Inner Jet Gland - Contractor shall supply a new stern gland for stbd inner waterjet and shall replace existing gland.

C.12.C.48 Broken Toilet Seats - Contractor shall supply materials only to TACOM for repair of broken toilet seats.

C.12.C.49 Engineer Chair Broken - Contractor shall repair the damaged engineer's chair on the vessel bridge.

C.12.C.50 DNV Certification - Contractor shall arrange for DNV to provide updated Survey Certificates (HSC Declaration Periodic survey, Load line declaration, IOPP declaration, EO Class annual survey, deletion of CC004) and provide labor for all support and investigation work needed to support DNV. Contractor will also arrange for safety equipment and fire systems to be surveyed and renewed as appropriate. If additional work is required, the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.C.51 Seawater Cooling Piping Has No Zinc - Contractor shall rectify the existing problem with piping on SOME and shall investigate and report on findings on other three engines. If additional work is required the Contractor shall coordinate and contact the COR and/or the PCO for direction.

C.12.C.52 PAX/crew Overhead Areas Sweat - Contractor shall fabricate and install insulated panels over the windows and roof windows as outlined in the A/C Review submitted to TACOM.

C.12.C.53 Mudbox Strainers Weld Breaking - Contractor shall perform an inspection of the mudbox strainers and shall repair the minor weld deficiencies as noted. If additional work is required, the Contractor shall coordinate and contact the COR and/or PCO for direction.

C.12.C.53.1 Mudbox Strainer Replacement - Contractor shall fabricate and replace three (3) mudbox strainers which were found to have been in need of replacement.

C.12.C.54 Charge Air Coolers - Contractor shall remove air coolers and arrange for chemical/ultrasonic cleaning to charge air coolers, and reinstall. Contractor shall provide all transport, freight, and plant hire required.

C.12.C.54.1 Air Coolers Acid Wash - As a result of rust discovered on coolers during removal, Contractor shall undertake a pressure test of the coolers. Contractor shall also arrange for an acid wash of the water inlet side of the coolers to remove any rust scale

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buildup.

C.12.C.54.2 Air Coolers Replacement Parts - Contractor shall supply and fit one (1) faulty bellow and various studs and gaskets for the air coolers as required.

C.12.C.54.3 Service all ME Coolers - Contractor shall remove and arrange for cleaning of all ME lube oil and jacket water coolers. Contractor shall reinstall coolers following cleaning and shall provide all sundry gasket and piping materials required.

C.12.C.55 ME Sea Water Pumps - Contractor shall inspect all sea water pumps and replace worn parts with MAN B & W replacement parts. Contractor shall also remove, inspect, and refit all electrical booster pumps and shall replace any worn parts up to \$1,500. Any parts above this amount shall be coordinated with the COR and/or PCO for direction. Contractor shall provide all transport, freight, and plant hire required. Contractor shall insure PM system is updated following service.

C.12.C.55.1 ME Pump Repair Parts - Due to discovery of corrosion on impellers and end plates, Contractor shall replace the impellers, endplates, and seal kits on four (4) auxiliary sea water pumps.

C.12.C.55.2 Booster Pump Repair Parts - Contractor shall supply and fit new bearings, shaft kits, and gaskets on all four (4) ME sea water pumps.

C.12.C.56 Reduction Gear Service - Contractor shall arrange for gearboxes to be inspected in accordance with DNV requirements and shall provide all replacement filters as required.

C.12.C.57 Structural "I" Beam - Contractor shall investigate cause of water collection on the structural "I" beam and make repairs as necessary to eliminate water buildup.

C.12.C.58 Vehicle Deck Drains Installation - Contractor shall review and install additional drains from the vehicle deck aft and midships in order to assist with deck drainage.

C.12.C.59 Duplex Strainers fro Mudboxes (Gensets) - Contractor shall manufacture and install duplex strainers for the mud boxes, including fabrication and installation of additional stainless steel piping for the upgraded reticulation.

C.12.C.60 Duplex Fuel Systems (Gensets) - Contractor shall supply and install a duplex fuel system for the generators, including all pipework and valves required for installation.

C.12.C.61 Duplex Fuel Systems (Main Engines) - Contractor shall supply and install a duplex fuel system for the main engines, including all pipework and valves required for installation.

C.12.C.62 Air Compressors - Contractor shall replace two small volume air compressors currently onboard vessel with two larger volume compressors. Contractor shall exchange the small units as trade-in and charge only the cost difference between small and large units. Contractor shall also supply a new additional large unit at a discounted price. contractor shall be responsible for all installation works required for the new compressors.

C.12.C.63 Ships Office Bulkheads - Contractor shall affix aluminum retaining bar to wall studs to secure bulkhead wall linings. Contractor shall remove, clean, and re-affix strip along bulkhead join on exterior of office wall.

C.12.C.64 Jet Liner Pressure Test - Contractor shall undertake a pressure test of the waterjet liner on the starboard inner waterjet.

C.12.C.65 Fire Main System Upgrade - Contractor shall supply and install 2 x new 5,000 liter freshwater tanks including all mounting and bracket fabrication required. Contractor shall fabricate and install a new flushing system and shall replace as required existing fire hydrant piping with new Duplex Stainless Steel piping. Contractor shall be responsible to remove and replace SFP as required and to obtain all necessary DNV approvals.

C.12.C.66 Sea Water Piping Cleaning - Contractor shall clean out and/or replace as necessary the build-up of marina barnacles on the engine cooler sea water pipes.

C.12.C.67 Trim Tab Rods - Contractor shall remove and strip down hydraulic cylinder and shall replace rods and seals, reassemble unit and pressure test and reinstall on vessel.

C.12.C.68 Fuel Injector Repairs - Contractor shall remove all fuel injectors from main engines and shall arrange for servicing of units as per manufacturer's 2,500 hr requirements. Servicing shall include new tip kits, "O" rings, and copper sealing washers as required.

C.12.C.69 Fuel Filters - Contractor shall supply eight (8) new Volkes fuel filters and shall change out existing filters as per manufacturer's 2,500 hr requirements.

C.12.C.70 ME Rebound Resets - Contractor shall reset all engine mounts following work completion and when engines are full of oil and water as usual. Rebounds will be reset to manufacturer's specifications.

C.12.C.71 Fuel Contamination - Contractor shall flush out all fuel supply lines, pressure flush main engines and return lines. contractor shall purchase sufficient fuel as required for all flushing and shall leave unused fuel onboard vessel.

C.12.C.72 Lube Oil System Cleaning - Contractor shall suck all oil from all four (4) main engines, and all oil from storage tanks. Storage tanks and engine sumps shall be wiped and cleaned. Contractor shall refill main engines with correct grade of oil as per manufacturer's specifications. Waste oil shall be disposed of in an environmentally acceptable manner.

C.12.C.73 Jet Bowl Anode Replacement - Contractor shall supply and fit ten (10) new zinc anodes on each of the four (4) waterjets on the vessel.

C.12.C.74 Fire Detection Repairs - Contractor has undertaken an inspection of the Fire Detection System and discovered several devices were not operational. Contractor shall supply and place on board 2 x Manual Callpoints in droop deck; 2 x optical smoke detectors in engine rooms; 2 x neural detectors on troop deck; 1 x heat detector in galley; 1 x neural detector in planning room; 1 x optical detector for apres.

C.12.C.75 ME Flexible Bellows Replacement - Following inspection of bellows, many were found to be in various stages of failure. Contractor shall arrange for the supply and fitting of replacement bellows as required on all four (4) main engines.

C.12.C.76 New Sea Water Pumps - Contractor shall arrange for new pumps to be supplied, in exchange for existing ordered replacement parts.

C.12.C.77 New Mattresses - Contractor shall supply and fit 40 new mattresses for crew berthing requirements.

C.12.C.78 Safety Survey Items - Contractor shall supply/undertake the following: 1 x Waterproof Electric Torch; 1 x Set of Torch Batteries (2 x DD + Spare Globe); 1 x Repair Kit; 2 x RB2 - Lithium Batteries + Spare Light; Port MOB searchlight; 1 x Buoyant Safety Knife; 1 x Searchlight plug; 1 x Outboard Propeller (chips in blade require welding); Repairs to Stbd side safety line (safety line has

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ <u>ITEM</u> <u>MIPR</u>	ACRN	OBLG STAT/ <u>JOB ORD NO</u>		<u>PRIOR AMOUNT</u>		<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>AMOUNT</u>
0012AA	P146P0402T 65480446100	AK	2 4ZCW12	\$	1,481,727.00	\$	892,403.00	\$	2,374,130.00
0012AB	P146P0372T 65480446100	AK	2 4ZCW12	\$	100,000.00	\$	-100,000.00	\$	0.00
0012AC	P146P0422T 65480446100	AK	2 4ZCW12	\$	7,535.00	\$	7,535.00	\$	15,070.00
0012AD	P146P0412T 65480446100	AK	2 4ZCW12	\$	47,551.00	\$	47,515.00	\$	95,066.00
0012AE	P146P0402T 65480446100	AK	2 4ZCW12	\$	195,229.00	\$	118,316.00	\$	313,545.00
0012AF	P146PC542T 65480446100	AK	2 4ZCW12	\$	27,390.00	\$	0.00	\$	27,390.00
					NET CHANGE	\$	965,769.00		

<u>SERVICE</u> <u>NAME</u>	<u>NET CHANGE</u> <u>BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>		<u>ACCOUNTING</u> <u>STATION</u>	<u>INCREASE/DECREASE</u> <u>AMOUNT</u>
Army	AK	21	42040000041C1C09P654804255Y S20113	W56HZV	\$ 965,769.00
					NET CHANGE \$ 965,769.00

		<u>PRIOR AMOUNT</u> <u>OF AWARD</u>		<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$	41,324,739.08	\$	965,769.00	\$	42,290,508.08

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SECTION I - CONTRACT CLAUSES

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1 DELETED	52.216-23	EXECUTION AND COMMENCEMENT OF WORK	APR/1984