

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30</i>				1. REQUISITION NUMBER MA-PR615-20110508		PAGE OF 1 14	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE	4. ORDER NUMBER DTMA-92-P-2011-0097		5. SOLICITATION NUMBER DTMA-92-Q-2011-0049		6. SOLICITATION ISSUE DATE 07/01/2011
7. FOR SOLICITATION INFORMATION CALL:		a. NAME Monique Leake			b. TELEPHONE NUMBER (No collect calls) 7573225820		8. OFFER DUE DATE/LOCAL TIME ET
9. ISSUED BY U.S.DOT/ Maritime Administration Atlantic Div. Acquisition Office MAR-380-2 7737 Hampton Blvd Building 19 Suite 300 NORFOLK VA 23505-1204			CODE 00092	10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input checked="" type="checkbox"/> SET ASIDE % FOR <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> 8(A) NAICS: 336611 SIZE STANDARD: 1,000		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE <input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)	12. DISCOUNT TERMS
15. DELIVER TO TS KENNEDY Massachusetts Maritime Academy 101 Academy Drive Buzzards Bay MA 02532			CODE 00092-TS KENNEDY	16. ADMINISTERED BY U. S. DOT Maritime Administration Atlantic Div. Acquisition Office MAR-380.2 7737 Hampton Blvd Building 19 Suite 300 Norfolk VA 23505-1204		CODE 00092	14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP
17a. CONTRACTOR/OFFEROR ACME INDUSTRIAL, INC. 326-328 FRONT ST STATEN ISLAND NY 10304-3838		CODE 155081300	FACILITY CODE	18a. PAYMENT WILL BE MADE BY MARAD A/P INVOICES P.O. BOX 25710 OKLAHOMA CITY OK 73125		CODE AMZ-160 (US. MAIL)	18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED. <input type="checkbox"/> SEE ADDENDUM
17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER <input type="checkbox"/>				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED. <input type="checkbox"/> SEE ADDENDUM			
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	Mark For: TS KENNEDY Massachusetts Maritime Academy 101 Academy Drive Buzzards Bay MA 02532 Period of Performance: 09/06/2011 to 09/30/2011 Main Reduction Gear Coupling and Gear Inspections (ABS SSM)-Provide labor and materials to make and inspection/survey of the main engine reduction gearing and its flexible couplings under the (Use Reverse and/or Attach Additional Sheets as Necessary)						
25. ACCOUNTING AND APPROPRIATION DATA 70X1750SMR.2011.120SMP1070.0000160000.25711.61006600						26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$179,840.00	
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA A <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED. <input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4, FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.				<input checked="" type="checkbox"/> 29. AWARD OF CONTRACT REF. Your Quote OFFER DATED 07/19/2011 YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: CLIN 0001-0009			
<input type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				<input checked="" type="checkbox"/> 29. AWARD OF CONTRACT REF. Your Quote OFFER DATED 07/19/2011 YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: CLIN 0001-0009			
30a. SIGNATURE OF OFFEROR/CONTRACTOR 			30b. NAME AND TITLE OF SIGNER (Type or Print) JOSEPH MARTUCCI, PRESIDENT			30c. DATE SIGNED 8/23/11	
31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) 			31b. NAME OF CONTRACTING OFFICER (Type or print) Monique Leake			31c. DATE SIGNED 08/24/2011	

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	direct guidance of a contractor furnished technical representative in accordance with the attached SOW. Main Reduction Gear Coupling and Gear Inspections (ABS SSM)-Provide labor and materials to make and inspection/survey of the main engine reduction gearing and its flexible couplings under the direct guidance of a contractor furnished technical representative in accordance with the attached SOW.				19,870.00
0002	Main Engine Maneuvering Valves - Inspection (ABS SSM)- Provide labor, materials and equipment to perform the inspections under the direct supervision of a contractor furnished technical representative in accordance with the attached SOW. Main Engine Maneuvering Valves - Inspection (ABS SSM)- Provide labor, materials and equipment to perform the inspections under the direct supervision of a contractor furnished technical representative in accordance with the attached SOW. Main Engine L.O. Sump Inspection- Contractor Continued ...				28,380.00

32a. QUANTITY IN COLUMN 21 HAS BEEN RECEIVED INSPECTED NOTED: _____ ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
		32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY	
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		42a. RECEIVED BY (Print)	
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	
		42b. RECEIVED AT (Location)	
		42c. DATE REC'D (YY/MM/DD)	42d. TOTAL CONTAINERS

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DTMA-92-P-2011-0097

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NAME OF OFFEROR OR CONTRACTOR
ACME INDUSTRIAL, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	shall provide labor and materials to inspect the main engine lubrication oil sum including opening, cleaning, storage of up to 1500 gallons of lubrication oil, purification or filtering of lubrication oil for return the main engine sump in accordance with the attached SOW.				
0003	Main Engine L.O. Sump Inspection- Contractor shall provide labor and materials to inspect the main engine lubrication oil sum including opening, cleaning, storage of up to 1500 gallons of lubrication oil, purification or filtering of lubrication oil for return the main engine sump in accordance with the attached SOW.				34,750.00
	Main Thrust Bearing - Kingsbury #43 horizontal (8 x 8) - Inspection (ABS SSM)- Provide labor and materials to make and inspection/survey of the Main Thrust Bearing - Kingsbury #43 horizontal (8 x 8) under the direct guidance of a contractor furnished technical representative to the satisfaction the satisfaction of the attending ABS surveyor, USCG inspector and the COTR in accordance with the attached SOW.				
0004	Main Thrust Bearing - Kingsbury #43 horizontal (8 x 8) - Inspection (ABS SSM)- Provide labor and materials to make and inspection/survey of the Main Thrust Bearing - Kingsbury #43 horizontal (8 x 8) under the direct guidance of a contractor furnished technical representative to the satisfaction the satisfaction of the attending ABS surveyor, USCG inspector and the COTR in accordance with the attached SOW.				9,680.00
	Turbine Generators Inspections (ABS SMM)- The intent of this item is to make necessary removals to the Ship's Service Turbo Generators for inspection of the couplings, bearings, casings internals, turbine rotors and reduction gears set. All work and inspections shall be carried out under the supervision of the contractor furnished technical representative to the satisfaction the satisfaction of the attending ABS surveyor, USCG inspector and the COTR in Continued ...				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DTMA-92-P-2011-0097

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NAME OF OFFEROR OR CONTRACTOR
ACME INDUSTRIAL, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0005	<p>accordance with the attached SOW.</p> <p>Turbine Generators Inspections (ABS SMM)- The intent of this item is to make necessary removals to the Ship's Service Turbo Generators for inspection of the couplings, bearings, casings internals, turbine rotors and reduction gears set. All work and inspections shall be carried out under the supervision of the contractor furnished technical representative to the satisfaction the satisfaction of the attending ABS surveyor, USCG inspector and the COTR in accordance with the attached SOW.</p>				52,800.00
0006	<p>LIN 0006 Line Shaft Bearing Inspections- Western Gear Corp. 20 7/8" x 28"</p> <p>Furnish labor and material to unbolt and rig up top cover of two (2) main propulsion line shaft bearings for inspection by COTR and regulatory bodies in accordance with the attached SOW.</p> <p>Line Shaft Bearing Inspections- Western Gear Corp. 20 7/8" x 28"- Furnish labor and material to unbolt and rig up top cover of two (2) main propulsion line shaft bearings for inspection by COTR and regulatory bodies in accordance with the attached SOW.</p>				10,410.00
0007	<p>Air Ejector Inspection- Furnish labor and material to disassemble as outline tin the manufactures technical directions for regulatory body inspection the Air Ejectors for the Main Engine and both Steam Turbine Generators in accordance with the attached SOW.</p> <p>Air Ejector Inspection- Furnish labor and material to disassemble as outline tin the manufactures technical directions for regulatory body inspection the Air Ejectors for the Main Engine and both Steam Turbine Generators in accordance with the attached SOW.</p> <p>Supplemental Labor-Supplemental expenses are not Continued ...</p>				8,950.00

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DTMA-92-P-2011-0097

PAGE 5 OF 5

NAME OF OFFEROR OR CONTRACTOR
ACME INDUSTRIAL, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0008	<p>specifically expected, however it is requested that a stabilized labor rate be provided applicable to any emergent work related to this statement of work. For pricing purposes, the bidder shall provide a stabilized rate, with extended pricing, for a total of 100 man-hours of supplemental labor.</p> <p>Supplemental Labor-Supplemental expenses are not specifically expected, however it is requested that a stabilized labor rate be provided applicable to any emergent work related to this statement of work. For pricing purposes, the bidder shall provide a stabilized rate, with extended pricing, for a total of 100 man-hours of supplemental labor.</p>	100	HR	75.00	7,500.00
0009	<p>Supplemental Material-Supplemental expenses are not specifically expected, however it is requested that the bidder make allowance for up to \$7,500.00 in supplemental material charges, with NO BURDEN</p> <p>Supplemental Material-Supplemental expenses are not specifically expected, however it is requested that the bidder make allowance for up to \$7,500.00 in supplemental material charges, with NO BURDEN</p>				7,500.00
<p>The total amount of award: \$179,840.00. The obligation for this award is shown in box 26.</p>					

The purpose of the below Statement of work is for the contractor to provide all labor and materials necessary to accomplish a special survey of the main propulsion machinery to the satisfaction of the attending ABS surveyor.

MACHINERY INSPECTION ITEMS

Machinery Particulars:

Main Engine: The Vessel is equipped with a complete propulsion unit of De Laval design and manufacture, comprising a high pressure ahead turbine, a low pressure ahead turbine including astern elements, and double-helical, double speed reduction gear. The turbines are connected to the reduction gear through flexible, mechanical, dental type couplings.

Manufacturer:	De Laval Turbine Inc.
Instruction Book No.	1611
Maximum Rating (BHP)	15,500 hp
HP Cover w/ diaphragm (wt - lbs.)	6,000 lbs..
HP Rotor w/o Lifting gear (wt - lbs.)	2,282 lbs.
LP Cover w/ diaphragm (wt - lbs.)	20,300 lbs.
LP Rotor w/o Lifting gear (wt - lbs.)	11,510 lbs.

Turbo - Generator

Manufacturer:	De Laval Turbine Inc.
Type:	GJ
Rating	750 KW
Rated Speed (turbine):	10,012 rpm
Rated Speed (generator):	1,200 rpm
Turbine covers - Complete (wt - lbs):	1900 lbs
Turbine Rotor (wt - lbs):	610 lbs
Gear (wt - lbs):	2770 lbs
Generator Rotor (wt - lbs)::	2930 lbs
Generator Complete (wt - lbs)	7590 lbs

Main Propulsion Boilers - (2)

Manufacturer	Foster Wheeler Corp.
Type	Contract No. 3-37-4538 Contract No. 3-37-4564 Contract No. 3-37-4606
Design Pressure	700 lbs @ 850 deg. F.
Test Pressure	1050 PSI (150% of design)

MACHINERY INSPECTION ITEMS

Note: The Contractor must provide rigging equipment appropriate for the estimated weights, installed lifting points are available but the status of certifications is unknown, therefore it is the contractor's responsibility to ensure the safety of all rigging equipment including padeyes, trolleys and lifting beams.

CLIN 0001 Main Reduction Gear Coupling and Gear Inspections (ABS SSM)

Provide labor and materials to make and inspection/survey of the main engine reduction gearing and its flexible couplings under the direct guidance of a contractor furnished technical representative.

Note: As a precaution, all machinists working this item shall be sure to remove all items from their shirt pockets before commencing any work near or around open gear and coupling covers.

All work areas shall be clean and remain clean, so as not to contaminate engine parts, bolting etc.

Gear inspection covers shall only be opened in the presence of owner representative. All gear inspection covers shall be cleaned and promptly restored to their respective positions upon completion of inspections. All items shall be left covered when not being worked on. Good, sound and proper machinist practices shall apply.

a. HP and LP HS Coupling Inspections - Prior to disassembly, check and record axial movement and spline backlash. All clearances must be taken, recorded and supplied to the COTR. All coupling pieces are to be properly match-marked before lifting them out and returned to this position when installing.

Unbolt and remove the H.P. & LP high-speed flexible couplings. Stone smooth and dress any high spots. Clean thoroughly and leave ready for inspection by owner's representative, USCG and ABS surveyor.

Upon completion of inspection and when directed, rig couplings in place and install using new gasketing and approved sealant as approved by the COTR.

b. HP and LP LS Coupling Inspections - Prior to disassembly, check and record axial movement and spline backlash. All clearances must be taken, recorded and supplied to the COTR.

TS Kennedy- Statement of Work- ABS Special Survey- Main Propulsion Machinery

Unbolt and remove necessary covers to access the H.P. & LP low speed flexible couplings. Clean as practical. Prove proper float to owner's representative.

Upon completion of inspection and when directed, rig coupling covers in place and install using new gasketing and approved sealant as approved by the COTR.

c. Open bolted reduction gear inspection covers as required surveying all gears. Check spray pattern of all oil nozzles. Any nozzles found plugged are to be removed and cleaned.

Upon completion of inspection and when directed, install reduction gear inspection covers. Bolt and lock in the presence of the COTR.

Note: Repairs if any shall be covered on a separate item

Provide 5 copies of all measurements taken to COTR.

CLIN 0002 Main Engine Maneuvering Valves - Inspection (ABS SSM)

Provide labor, materials and equipment to perform the inspections under the direct supervision of a contractor furnished technical representative:

Remove all necessary interference. Interference include but are not limited to; deck plating, vent duct work, electrical cables, lighting fixtures, handrails, etc. Carefully disconnect control cables all monitoring equipment wiring. Equipment, wiring etc. shall be labeled to expedite proper and accurate installation upon completion of the inspections.

NOTE: All Main Engine and Main Steam line bolting is special Grade B-16. It is important that all bolting be restored as original. DO NOT MISPLACE BOLTING OR STUD NUTS. NO SUBSTITUTION WILL BE ALLOWED. Notify COTR if bolting must be changed.

All valves must be tested and proven operational to the satisfaction of ABS, USCG and COTR.

a. Unbolt and disconnect all necessary linkage in order to remove the valve body from the coupling yoke. Rig valve body to a suitable work area.

Perform inspections in accordance with the valve manufactures directions to the satisfaction of COTR, USCG and ABS surveyor.

Any repairs will be on a separate item.

Upon completion of inspection assemble and install using new gasketing and approved sealant as required. Thoroughly clean all mating surfaces. Restore any disturbed insulation with new.

b. Open, clean, and inspect as necessary the Main Steam strainer basket on valve body assembly.

Upon completion of inspection assemble and install using new gasketing and approved sealant as required. Thoroughly clean all flange-mating surfaces. Restore any disturbed insulation with new.

TS Kennedy- Statement of Work- ABS Special Survey- Main Propulsion Machinery

c. Disconnect actuator on the Astern Guardian valve. Disconnect pilot valve stem from screw spindle at coupling. Unbolt and remove actuator/bonnet assembly from valve body.

Check pilot valve stem run out. Inspect valve stem leak off bushing and guide bushing for galling and clearance, etc. Dye penetrant check the valve disc and seat to satisfaction of owner's representative and ABS surveyor.

Upon completion of inspection, assemble valve using new gasketing as approved by the COTR. Restore any disturbed insulation with new.

d. Maneuvering valve manifold strainer, ahead, astern and governor valve

Gimpel Drawing – S-931

The ahead and astern operators are identical in design and differ only in the relative size.

Disassemble as outline in the manufactures technical directions. Clean pistons and all internal components. Associated pilot valve cylinders shall be opened and cleaned as well. Measure and record piston and cylinder clearances. Review findings with COTR.

Assemble operators renewing all seals and piston rings as appropriate. Install operators and oil piping as original using proper sealant and gaskets approved by the COTR..

Valve operator cylinders must be bled of all air and tested in both the electrical motor and hydraulic hand pump modes.

CLIN 0003 Main Engine L.O. Sump Inspection

The Contractor shall supply a clean lubrication oil storage tank for approximately 1500 gallons of lubrication oil. The Contractor shall pump out the main sump as dry as practical in the provided storage tank reuse. Unbolt and remove sump access covers.

a. Provide labor to pump out and dispose of residual oil. Wipe out main sump for inspection by Chief Engineer, COTR, USCG and ABS surveyor. Use lint free cloth for cleaning of sump.

b. Upon completion of inspection, close up sump as original with new gasketing. The contractor will process the stored lubrication oil to the requirements of ASTM D6439 - 05 (Standard Guide for Cleaning, Flushing, and Purification of Steam, Gas, and Hydroelectric Turbine Lubrication Systems) for return to the ship. At the contractors option the oil can be replaced with new oil (Mobil DTE Oil Heavy).

c. Furnish and install sacks in the main lube oil strainers. Main lube oil systems (including reduction gears, H.P. and LP turbine bearings) are to be flushed by circulating hot oil until subsequent sacks installed in strainers prove clean to COTR's satisfaction.

CLIN 0004 Main Thrust Bearing - Kingsbury #43 horizontal (8 x 8) - Inspection (ABS SSM)

a. Furnish and set up dual balanced hydraulic jack arrangement on adjacent shaft coupling and bump shafting in order to determine measure and record thrust clearance.

TS Kennedy- Statement of Work- ABS Special Survey- Main Propulsion Machinery

Measurement to be made using a dial indicator and shall be witnessed by the COTR and ABS surveyor. (Kingsbury Pub. 27-663) Record and furnish COTR five copies of readings.

b. Unbolt top half of main thrust bearing casing and rig up for inspection by COTR and regulatory bodies. Remove thrust shoes for inspection and reinstall. Clean all mating faces and close up in good order as original.

Recheck thrust clearance upon completion of assembly.

Oil will be drained and filled by the Contractor.

CLIN 0005 Turbine Generator Inspections (ABS SMM)

The intent of this item is to make necessary removals to the Ship's Service Turbo Generator for inspection of the couplings, bearings, casing internals, turbine rotor and reduction gear set. All work and inspections shall be carried out under the supervision of the contractor furnished technical representative.

The weights as listed are approximate and should be confirmed when determining proper lifting equipment.

Turbo - Generator Data: (Note Manufacture's Data at beginning of specification)

Make all necessary removals to allow for access to the turbine casing and reduction gear casing bolts. Removals are to include but are not limited to insulation, steam piping, electrical cables and lighting fixtures, etc. Carefully remove monitoring equipment, RTD's, thermometers, etc. Label all removals prior to removing so as to ensure return to original positions, and locations.

NOTE: All Main Engine and Main Steam line bolting is special Grade B-16. It is important that all bolting be restored as original. DO NOT MISPLACE BOLTING OR STUD NUTS. NO SUBSTITUTION WILL BE ALLOWED. Notify COTR if bolting must be changed.

Part I a. SSTG Coupling Inspection.

I a. Remove all upper half of forward and aft journal bearing covers. Disconnect the high-speed flexible coupling between the turbine and the gear. Clean coupling and prepare for inspection. Upon completion of coupling inspection rig in place and install.

Part II a. SSTG Bearing Inspection.

Lift bearing caps on turbine (2). Take and record clearance of journal bearings and thrust bearing. Visually inspect rotor journals and polish disturbed areas. Take and record nozzle clearance. Upon completion reassemble as original.

Provide five (5) copies of the bearing clearances and rotor diameters.

Part III a. SSTG Turbine Reduction Gear Inspection.

TS Kennedy- Statement of Work- ABS Special Survey- Main Propulsion Machinery

- a. Disassemble the throttle trip valve for inspection of parts. Polish and dress any parts as necessary. Reassemble as original insuring freeness of operation of all parts.
- b. The lube oil sump will be drained and refilled. At conclusion of repairs, open sump and wipe clean with a lint free cloth for inspection by owners representative.
- c. Unbolt and remove upper half of reduction gear casing. Rig clear of gear. Take and record clearances on all bearings. Support gears and roll out bearing halves for inspection. Hand dress and polish journals as necessary. Disconnect motor and remove bolting in order to rig electric gear driven lube oil pump out of sump for inspection. Disassemble as required in order to survey condition of gear driven lube oil pump.
- d. Remove covers on generator end. Unbolt and lift bearing cap. Support rotor and roll out lower half of bearing for inspection. Take and record bearing clearances.

At conclusion of inspection, close up all removals as original. All surfaces to be thoroughly cleaned prior to reassembly. Any damaged insulation is to be restored as original.

Furnish and install sacks in the lube oil strainers. Lube oil systems (including reduction gears, turbine bearings) are to be flushed by circulating hot oil until subsequent sacks installed in strainers prove clean to COTR's satisfaction.

Provide five (5) copies of report of all internal inspections, clearances, bearing clearances, rotor alignment.

CLIN 0006 Line Shaft Bearing Inspections- Western Gear Corp. 20 7/8" x 28"

Furnish labor and material to unbolt and rig up top cover of two (2) main propulsion line shaft bearings for inspection by COTR and regulatory bodies.

Take weight of shaft at each bearing with hydraulic jack, one at a time, and roll out lower bearing shell. After inspection clean all mating surfaces and assemble in good order. Bearing shell shall be protected at all times when out of bearing pedestal/housing.

CLIN 0007 Air Ejector Inspection

Furnish labor and material to disassemble as outline in the manufactures technical directions for regulatory body inspection the Air Ejectors for the Main Engine and both Steam Turbine Generators.

Internal inspection: perform an inspection for any kind of corrosion or erosion, "wiredrawing" etching, and gouging. Obtain critical dimensions such as the nozzle orifice or venturi bore diameter to determine extent of wear. All inspections must be performed to the satisfaction of ABS, USCG and COTR.

CLIN 0008 Supplemental Labor

Supplemental expenses are not specifically expected, but OFFERORS are requested to provide a stabilized rate applicable to any work beyond CLIN's 0001 thru CLIN 0007. For pricing purposes, the OFFERORS shall provide their stabilized hourly rate, with extended pricing, for a total of 100 man-hours of supplemental labor. This funding, if required, will be tasked by the COTR via Change Order.

CLIN 0009 Supplemental Material

Additional materials are not expected; however, it is requested that the Contractor make allowance for up to \$7,500.00 in supplemental material charges. This funding, if required, shall be issued by the COTR via a Change Order. Invoices for these materials shall be provided to the COTR upon request,

The following FAR and Transportation Acquisition Manual (TAM) provisions and clauses apply to this purchase order and are incorporated by reference.

52.252-2 Clauses Incorporated by Reference

This contract incorporates one or more clauses by reference with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at the following Internet addresses:

Federal Acquisition Regulations (52.) <https://www.acquisition.gov/comp/far/current/html/FARTOCP52.html>

Transportation Acquisition Regulations (1252.) <http://www.dot.gov/ost/m60/tamtar/part1252.htm>

U.S. Maritime Administration Provisions and Clauses (MCL.) https://voa.marad.dot.gov/Solicitation_Awards/docs/mar-380/MARAD%20Clauses%20MCL%20for%20HTML.htm

52.212-4 Contract Terms and Conditions-Commercial Items;

52.212-5 Contract Terms and Conditions Required to Implement Statutes or Executive Orders - Commercial Items; within FAR Clause 521112-5(b) and (c), the following Items are designed by the Contracting Officer to apply to the solicitation:

52.204-10 Reporting Executive Compensation and First-Tier Subcontract Awards (over 25K)

52.219-28 Post-Award Small Business Program Representation.

52.222-3 Convict Labor,

52.222-19 Child Labor - Cooperation with Authorities and Remedies,

52.222-21 Prohibition of Segregated Facilities,

52.222-26 Equal Opportunity,

52.222-36 Affirmative Action for Workers with Disabilities, (Over 15K)

52.225-3, Buy American Act--Free Trade Agreements--Israeli Trade Act (Over 25K)

52.225-13 Restrictions on Certain Foreign Purchases, and

52.232-33 Payment by Electronic Funds Transfer --Central Contractor Registration

52.222-41 Service Contract Act

52.223-18 Contractor Policy to Ban Text Messaging While Driving

1252.223-73 Seat Belt Use Policies and Programs

MCL.H-2 Supplemental Work Requests (Subparagraph (d)(10) is \$5,000.00)

MCL.H-3 Indemnity and Insurance

MCL.H.4 Indemnity and Insurance (Additional) (All limits up to \$5,000,000.00 are revised to \$1,000,000.00 for this solicitation)

MCL.H-6 Standards of Employee Conduct

MCL.H-10 Supplemental Growth Requirements
MCL.H-11 Disposition of Removed Equipment and Scrap
MCL.H-12 Maritime Liens, No Authority to Incur
MCL.L-2 Agency Protests

APPLICABLE SERVICE CONTRACT ACT WAGE DETERMINATION: The Service Contract Act wage determination applicable to this requirement is available online at the following address: <http://www.wdol.gov/wdol/scafiles/std/05-2259.txt>

INVOICE SUBMISSION INSTRUCTIONS - MARAD

The Contractor may submit invoices in either electronic or paper format. Electronic submission is preferred.

(1) Electronic invoices shall be addressed to MARADInvoices@faa.gov, with copy to MARADSARInvoices@dot.gov

Electronic invoices shall conform to the following criteria, or be subject to rejection:

- a. Invoice and supporting documentation shall be in Adobe Acrobat (pdf) format.
- b. The e-mail subject shall include the contract/purchase order number and invoice number.
- c. The transmitting e-mail shall include the following information: Name of the Contractor; Invoice date and number; Invoice amount; Contract number and, if applicable, the order or modification number; Terms of any discount for prompt payment offered; Payment instructions (i.e., financial institution, ABA routing #, account #)

(2) Paper invoices shall be submitted to one of the following addresses. Multiple copies are not required.

MARAD A/P SAR Invoices Branch
AMZ-160
PO Box 25710
Oklahoma City, OK 73125

If a street address is required for delivery (i.e., Federal Express), the following address may be used in lieu of the post office box:

MARAD A/P SAR Invoices Branch
AMZ-160
6500 S MacArthur Blvd.
Oklahoma City, OK 73169