

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 0005	3. EFFECTIVE DATE 08-Jul-2016	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY NAVFAC HAWAII SERVICES ACQUISITION DIVISION (PR.J233) 400 MARSHALL ROAD JBP HH HI 96860-3139	CODE N62478	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. N62478-16-R-2453	
		X	9B. DATED (SEE ITEM 11) 18-May-2016	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) RFP NO. N62478-16-R-2453, EQUIPMENT OPERATIONS, MAINTENANCE AND REPAIR SERVICES, OAHU, HAWAII THE REVISED PROPOSAL RECEIPT DATE IS JULY 18, 2016, 2:00 PM, HST.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		08-Jul-2016

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

The following items are applicable to this modification:

SUMMARY OF CHANGES (REV)

Offeror Pricing Schedule

Replace Offeror Pricing Schedule AM2 2 with the attached Offeror Pricing Schedule AM5. Offerors shall use Offeror Pricing Schedule AM5 when submitting proposal.

SECTION 1502000

Replace page 1 of 20 (Amendment No. 0002) with the attached page 1 of 20 (Amendment No. 0005).

Replace page 4 of 20 with the attached page 4 of 20 (Amendment No. 0005).

Replace pages 15 of 20 through 20 of 20 with the attached pages 15 of 20 through 20 of 20 (Amendment No. 0005).

ATTACHMENT J-1502000-01

Replace page 1 of 2 (Amendment No. 0002) with the attached page 1 of 2 (Amendment No. 0005).

ATTACHMENT J-1502000-06

Delete Attachment J-1502000-06 in its entirety and replace with the attached pages 1 of 8 through 8 of 8 (Amendment No. 0005).

1502000 – Facility Investment Table of Content	
Spec Item	Title
1	General Information
1.1	Concept of Operations
2	Management and Administration
2.1	Definitions and Acronyms
2.2	Personnel
2.2.1	Certification, Training, and Licensing
2.3	Special Requirements
2.3.1	Workmanship and Material Standards
2.3.2	Historical Preservation
2.3.3	Government-Furnished Labor and Equipment for Compressed Air Systems
2.3.4	Contractor-Furnished Items for Compressed Air Systems
2.4	References and Technical Documents
3	Recurring Work
3.1	Service Orders
3.1.1	Emergency Service Orders
3.1.2	Urgent Service Orders
3.1.3	Routine Service Orders
3.2	Preventive Maintenance (PM) Program
3.2.1	Flow Metering Systems
3.2.2	Generators Stack Testing
3.2.3	Vehicle Wash Rack and Vehicle Service Rack
3.2.4	Autoclave, Sterilizer
3.2.5	Liquid Nitrogen Storage Facility
3.2.6	Compressed Air Systems
3.2.6.1	High Pressure Air Compressor Systems (HPAC)
3.2.6.2	Low Pressure Air Compressor Systems (LPAC)
3.2.7	Boilers and Unfired Pressure Vessels (UPVs)
3.3	Inspection, Testing, and Certification Program
3.3.1	Boilers and UPVs
3.4	Other Recurring Services Program
3.4.1	Boiler Water Testing and Treatment Services
4	Nonrecurring Work

1502000 – Facility Investment		
Spec Item	Title	Description
		<p>at the journeyman level.</p> <p>The Contractor shall submit proof of all certification, training, and licensing requirements per Section F.</p>
2.3	Special Requirements	
2.3.1	Workmanship and Material Standards	<p>The Contractor shall be responsible for maintaining all facilities, systems, and equipment, identified in this technical sub-annex, to a standard that prevents deterioration beyond that which results from normal wear and tear and corrects deficiencies in a timely manner to assure full life expectancy of the facilities, systems, and equipment. Best commercial practices shall be applied in the performance of work. All work shall be completed per approved and accepted industry and equipment manufacturers’ standards and shall comply with building and safety codes, applicable activity, local, state, and federal regulations, and other technical requirements identified within this technical sub-annex.</p> <p>Workmanship for maintenance and repair shall include all work necessary to complete facility and system restoration, including touch-up painting and operational checks. Upon completion of work, the Contractor shall ensure all facilities, systems, and equipment are free of missing components or defects which would affect the safety, appearance, or habitability of the facilities and structures or would prevent any electrical, mechanical, plumbing or structural system from functioning in accordance with design intent. Repairs shall be made in accordance with the manufacturers’ specifications and guidelines, and standard building codes. The quality of repairs shall meet the applicable standards and shall prevent any malfunction reoccurrences caused by poor workmanship or other contractor inadequacies. The quality of the repaired areas shall be fully compatible with adjacent surfaces or equipment. Except where otherwise specified, replacements shall match existing in dimensions, finish, color, design, and functionality and shall have an appearance similar to the original finished appearance with only minor unobjectionable deterioration resulting from normal use.</p> <p>The Contractor shall not allow debris to spread unnecessarily into adjacent areas nor accumulate in the work area. All such debris, excess material, and parts shall be cleaned up and removed at the completion of the job and at the end of each day work is in progress. Upon completion of work, any stains and other unsightly marks shall be removed.</p>
2.3.2	Historical Preservation	Buildings and facilities designated as historical sites shall be maintained in accordance with Federal, state and local historical policies and regulations.
2.3.3	Government-Furnished Labor and Equipment for Compressed Air Systems	The Government will provide the necessary labor and lifting equipment to perform the maintenance overhauls, element replacement, and other replacement and repairs for servicing compressed air systems.
2.3.4	Contractor-Furnished Items for Compressed Air Systems	<p>The Contractor shall provide parts as specified in J-1502000-06, and develop an updated Current Inventory Parts List as needed to accomplish maintenance, replacement, and repair.</p> <p>The Contractor shall be responsible for the cost of shipping parts/components that do not meet the specifications and standards, and parts that have been shipped in error back to the manufacturer.</p>

1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
		safe, reliable, uninterrupted service.	The Contractor shall develop and submit a Performed Maintenance (PM) plan as per spec item 3.2.	All parts/components, including updated parts/components, are at the work site prior to the start of scheduled PM/work.
3.2.6.1	High Pressure Air Compressor Systems (HPAC)	The Contractor shall perform preventive maintenance, repair and inspections on HPAC systems to ensure proper operation, minimize breakdowns, and maximize useful life.	<p>The contractor shall perform quarterly Inspections and Annual maintenance on two D65-A HPAC units located at PHNSY high pressure station (S-1182) in accordance with the contractor proposed maintenance schedule.</p> <p>The Contractor shall follow and perform the scheduled quarterly inspections and annual maintenance as required by the OEM.</p> <p>The contractor shall develop a parts required list to conduct annual maintenance in accordance with manufacturers' recommended procedures and OEM standards.</p> <p>Additional information of the Compressed Air Systems is located at J-1502000-06.</p> <p>The Contractor shall develop and submit a Performed Maintenance (PM) plan as per spec item 3.2.</p>	<p>HPAC systems are in normal working condition and function properly in accordance with specified standards.</p> <p>Maintenance is performed in accordance with manufacturers' recommended procedures and OEM standards.</p> <p>All required parts, equipment and tools shall be at the site prior to maintenance.</p> <p>All maintenance, repairs and inspections are completed as required.</p>
3.2.6.2	Low Pressure Air Compressor Systems (LPAC)	The Contractor shall perform preventive maintenance, repair and inspections on LPAC systems to ensure proper operation, minimize breakdowns, and maximize useful life.	<p>The Contractor shall perform maintenance overhaul once every four (4) years on each of four (4) LPAC units. Once every four (4) year maintenance frequency is staggered to one (1) LPAC unit maintenance overhaul per year.</p> <p>The Contractor shall update required parts list to conduct maintenance in accordance with manufacturers' recommended procedures</p>	<p>LPAC systems are in normal working condition and function properly in accordance with specified standards.</p> <p>Maintenance is performed in accordance with manufacturers' recommended procedures and OEM standards.</p>

1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
			<p>and OEM standards.</p> <p>Additional information of the Compressed Air Systems is located at J-1502000-06.</p> <p>The Contractor shall develop and submit a Performed Maintenance (PM) plan as per spec item 3.2.</p>	<p>All required parts, equipment and tools shall be at the site prior to maintenance.</p> <p>All maintenance, repairs and inspections are completed as required.</p>
3.2.7	Boilers and UPVs	The Contractor shall perform maintenance on boilers, UPVs and associated equipment to ensure proper operation, to minimize breakdowns, and to maximize useful life.	<p>The Contractor shall provide personnel with the qualifications, technical knowledge, experience and skills required to efficiently operate, maintain, and repair the steam and hot water generation plants, steam and hot water distribution systems, UPVs and associated systems.</p> <p>The Contractor shall submit proof of all certification, training, and licensing requirements per Section F.</p> <p>The Contractor shall comply with minimum attendance requirements as specified in Section 3150 of NAVFACINST 11300.37, Energy and Utilities Policy Manual.</p> <p>Boilers and UPVs are maintained in accordance with UFC 3-430-07 and UFC 3-410-01.</p> <p>The Contractor shall ensure that sufficient fuel is available for boiler operations at all times. The Contractor shall initiate fuel orders, receive fuel from tanker trucks, transfer to and among storage tanks, and make all operational fuel transfers. The Contractor shall comply with all Federal regulations pertaining to fuel operations.</p> <p>Additional information of the</p>	<p>Maintenance is performed in accordance with Contractor's PM program and work schedule.</p> <p>The Contractor shall coordinate all maintenance and repair work and outages in a manner that minimizes the disruption of hot water/steam services.</p> <p>The Government shall provide fuels associated with boiler operations at no cost. The Contractor shall monitor fuel usage and coordinate with the Government for the timely ordering and receiving of fuel to ensure sufficient fuel is available to support boilers and UPV operations.</p> <p>The Contractor shall develop and submit a Performed Maintenance (PM) plan as per spec item 3.2.</p>

1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
			Boilers and UPVs are located at J-1502000-07.	
3.4	Inspection, Testing, and Certification Program	The Contractor shall provide inspection, testing, and certification services to ensure they are safe, fully functional, and operational.	<p>The Contractor shall develop an inspection, testing, and certification program</p> <p>The Contractor shall submit an inspection, testing, and certification program summary report per Section F.</p> <p>The Contractor shall submit an inspection, testing and certification schedule and a copy of all the equipment inspections, tests and certifications results.</p> <p>The inspection, testing, and certification program shall include all requirements for equipment listed at spec items: 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6, 3.2.7</p> <p>The Contractor is fully responsible for and shall perform any repairs, including replacement of components, discovered during inspection, testing, and certification work up to \$250 per occurrence under PM program in direct material and labor cost under the Recurring Work portion of the contract. Incidental repairs work performed are not considered a service order.</p>	<p>All certifications are current.</p> <p>Testing, inspection, and certification services performed and completed in accordance with the inspection, testing, and certification program and schedule.</p> <p>Testing, inspection, and certification services performed in accordance with applicable references.</p>
3.4.1	Boilers and UPVs	The Contractor shall clean, prepare, and operate boilers and/or UPVs to support certification.	<p>The Contractor shall prepare boilers and/or UPVs for testing, inspection, and certification in accordance with the National Board of Boiler and Pressure Vessel Inspectors Code, UFC 3-410-06, and UFC 3-430-07.</p> <p>The Contractor shall immediately void any boiler inspection safety certificates upon the discovery of a safety deficiency regardless of the expiration date on the certificate. The certificate will</p>	<p>Testing, inspection, and certification of boilers and/or UPVs performed and completed in accordance with the Inspection, Testing, and Certification Program and Schedule.</p> <p>Boilers and/or UPV Systems are promptly returned to service upon issuance of certification.</p>

1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
			<p>again be valid only after the deficiency has been corrected by the Contractor and the boiler has been re-certified.</p> <p>The Contractor shall thoroughly clean and prepare the boilers and/or UPVs systems for testing and certification.</p> <p>The Contractor shall return boilers and/or UPVs systems to service upon issuance of certification.</p> <p>The Contractor shall refrain from operating a boiler and/or UPV systems without a valid NAVFAC inspection certificate.</p> <p>The Contractor shall perform all certification testing in the presence of the Government Certified Boiler Inspector.</p> <p>The Contractor shall provide five working days advance notification to the KO when boilers and/or UPVs is ready for testing and certification for coordination with the Government provided inspector.</p> <p>The Contractor shall assist the Certified Boiler Inspector in performing the testing for certification.</p> <p>The Contractor shall notify the Government when equipment is ready for testing and certification.</p> <p>The Contractor shall maintain files of inspection reports and inspection certificates</p> <p>The Contractor shall provide files for Government review and inspection when requested.</p>	<p>Boilers and/or UPVs are prepared for inspection and certification in accordance with UFC 3-410-06 and UFC 3-430-07.</p>

1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
			Additional information of the Boilers and UPVs are located at J-1502000-07.	
3.5	Other Recurring Services Program	The Contractor shall develop and implement another recurring services program for installed equipment and systems to ensure proper operation, to minimize breakdowns, and to maximize useful life.	Other recurring services include, but not limited to Boilers and UPVs. The Contractor shall submit an Other Recurring Services Program Summary Report per Section F.	Other recurring services are accomplished in accordance with the Contractor's program and work schedule. Services are performed in accordance with manufacturers' recommended procedures and OEM standards.
3.5.1	Boiler Water Testing and Treatment Services	The Contractor shall provide and implement a boiler water testing and treatment program to ensure optimum equipment operation and to maximize useful life.	The Contractor shall test and treat boiler water in accordance with equipment manufacturer's specifications. The Contractor shall maintain boiler water within the limits specified in Section 3120 of NAVFACINST 11300.37. The Contractor shall submit boiler water treatment test reports. For hot water boilers with capacities exceeding 5 MBTU(H) and steam boilers with capacities exceeding 0.4 MBTU(H), samples of feedwater, boiler water and condensate shall be tested and certified monthly by an independent laboratory for simultaneous comparison with Contractor analyses.	Sampling and testing is accomplished in accordance with the Contractor's program and schedule. Test results confirm that boiler water meets the chemical residual limits specified in Section 3120 of NAVFACINST 11300.37.

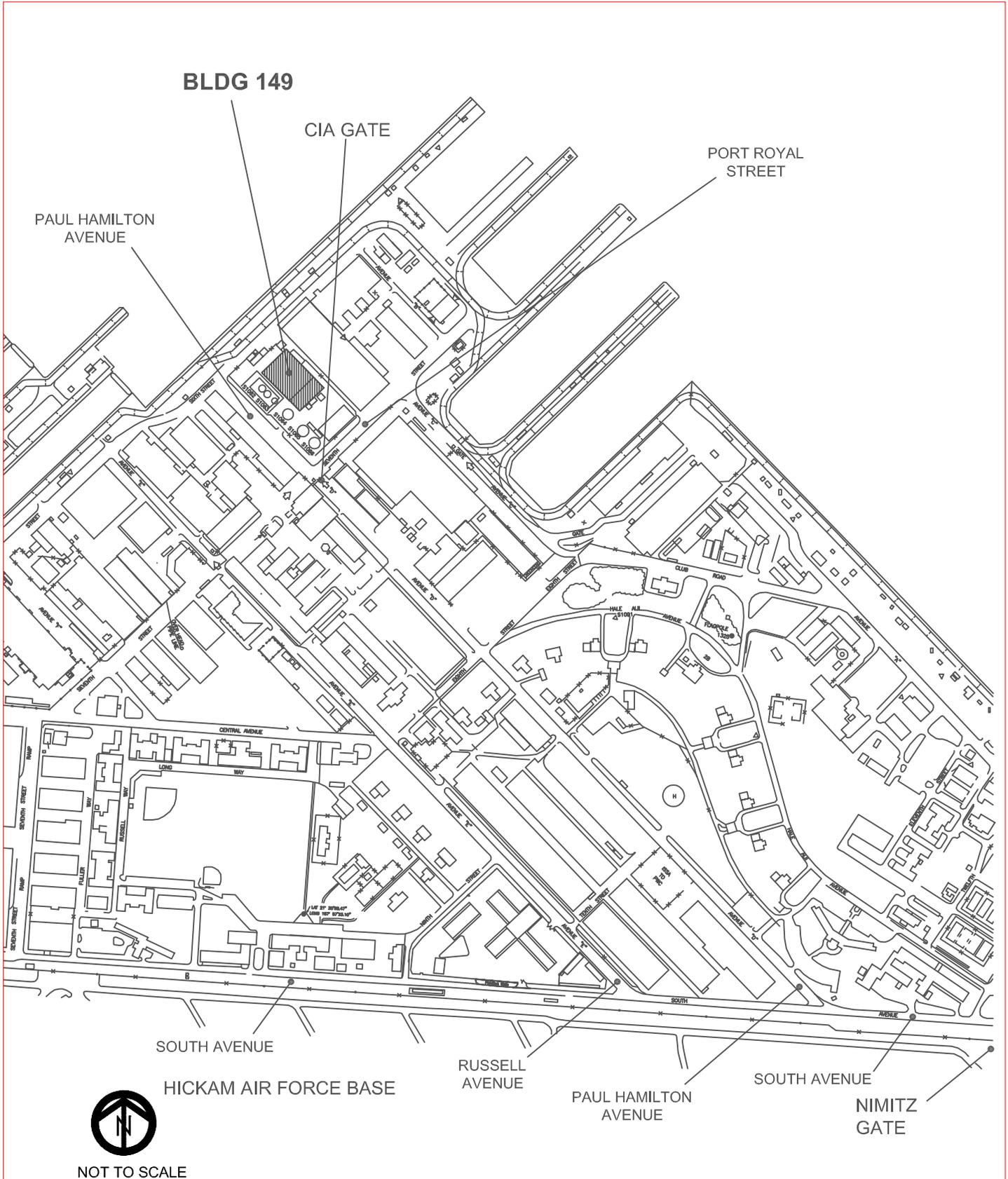
1502000 – Facility Investment				
Spec Item	Title	Performance Objective	Related Information	Performance Standard
4	Nonrecurring Work	Nonrecurring work may be ordered utilizing DoD EMALL in accordance with Section H or on a task order in accordance with the PROCEDURES FOR ISSUING ORDERS clause in Section G. The order will specify the exact locations and types of work to be accomplished. The period of performance will be specified in each order.	Refer to Nonrecurring ELINs for task listings, descriptions and related requirements. All periods of performance are measured from issue date of order to acceptance of the work. Performance Standards for Nonrecurring work will be the same as those in Spec Item 3 where applicable.	

ATTACHMENT J-1502000-01
FLOW MEASURING SYSTEM
 INVENTORY

COMPONENT NAME	QTY/UNIT	LOCATION	DESCRIPTION
Cipolletti Flow Measuring System	1/system	Water Reclamation Facility at Marine Corps Base Hawaii, Kaneohe, Building 1380	<p>The Cipolletti flow measuring system includes a Cipolletti weir, stream gauge, total flow meter/chart accessories, complete and operating as a system.</p> <p>Description of the components are as follows:</p> <ul style="list-style-type: none"> a. 4-Foot (48 inch) Cipolletti Weir b. STI 341-0442-100 Ultrasonic Non-Contact Transmitter S/N 006641-01-001 c. STI 385-1C00-006 Ultrasonic Transducer d. Foxboro 740RA-A3000-A Digital Circular Chart Recorder S/N 96F30222 3 A2 e. Leupold & Stevens 0 – 1.06 Feet Stream Gage f. Dissolved Oxygen Monitoring System components: <ul style="list-style-type: none"> i. Fluoroprobe Model FL-3 Luminescent Oxygen Analyzer S/N E-101306-10 ii. Fluoroprobe Dissolved Oxygen Transmitter
Effluent to Golf Course and In Plant Magnetic Flow Measuring System	1/system	Water Reclamation Facility at Marine Corps Base Hawaii, Kaneohe, Building 1380	<p>The magnetic flow measuring system includes magnetic flow tubes and associated flow transmitters.</p> <p>Description of the components are as follows:</p> <ul style="list-style-type: none"> a. 6” Siemans Sitrans FM MAG 5100W Flow Tube S/N 746509T404 with remote mounted Sitrans MAG 5000 Flow Transmitter (Effluent to Golf Course) b. 3” Siemans Sitrans FM MAG 5100W Flow Tube S/N 628509T364 with remote mounted Sitrans Mag 5000 Flow Transmitter (Return to In Plant Use)
Influent Magnetic Flow Measuring System	1/system	Water Reclamation Facility at Marine Corps Base Hawaii, Kaneohe, Building 1378	<p>The influent magnetic flow measuring system includes a magnetic flow tube and associated flow transmitter.</p> <p>Description of the components are as follows:</p> <ul style="list-style-type: none"> a. 16” Siemans Sitrans FM MAG 5100W Flow Tube S/N 560209T344 b. Siemans Sitrans FM Mag 5000 Flow Transmitter
Effluent Magnetic Flow Measuring System	1/system	Water Reclamation Facility at Marine Corps Base Hawaii, Kaneohe, Buildings 1683 and 1684	<p>The magnetic flow measuring system includes a magnetic flow tube and associated chart recorder.</p> <p>Description of the components are as follows:</p> <ul style="list-style-type: none"> a. 16” Rosemont FM Model 8732EMT1A1M4 S/N 0431770 with integral Associated Flow Transmitter (Building 1684) b. Foxboro Digital Circular Chart Recorder (Building 1683)
Waste Gas Burner Meter	1/system	Water Reclamation Facility at Marine Corps Base Hawaii, Kaneohe, Building 902	<p>The flowmeter is associated with the waste gas burner attached to the primary digester. Description of the components are as follows:</p> <ul style="list-style-type: none"> a. KURZ Model # 454FTB-12-HT Single Point Insertion Thermal Mass Flow Transmitter. Type – 4. Installed February 2012.

ATTACHMENT J-1502000-06
AIR COMPRESSOR INVENTORY

COMPONENT NAME	QTY/UNIT	LOCATION	DESCRIPTION
LOW PRESSURE AIR COMPRESSOR, STATIONARY ROTARY SCREW COMPRESSOR, 6500 CFM, 100 PSI FINAL PRESSURE, 1600 HP MOTOR, MFG: ATLAS-COPCO, ...1983	1/system	SHIPEA-149, NAVFAC-HI, UTILITIES DEPT (INSIDE SHIPYARD CIA)	SPM EQUIPMENT NO: SA-LAC 901 MODEL #ZR7D SERIAL # ARP 488063
LOW PRESSURE AIR COMPRESSOR, STATIONARY ROTARY SCREW COMPRESSOR, 6500 CFM, 100 PSI FINAL PRESSURE, 1600 HP MOTOR, MFG: ATLAS-COPCO, ...1983	1/system	SHIPEA-149, NAVFAC-HI, UTILITIES DEPT (INSIDE SHIPYARD CIA)	SPM EQUIPMENT NO: SA-LAC 902 MODEL #ZR7D SERIAL # ARP 488062
LOW PRESSURE AIR COMPRESSOR, STATIONARY ROTARY SCREW COMPRESSOR, 6500 CFM, 100 PSI FINAL PRESSURE, 1600 HP MOTOR, MFG: ATLAS-COPCO, ...1983	1/system	SHIPEA-149, NAVFAC-HI, UTILITIES DEPT (INSIDE SHIPYARD CIA)	SPM EQUIPMENT NO: SA-LAC 903 MODEL #ZR7D SERIAL #ARP 488065
LOW PRESSURE AIR COMPRESSOR, STATIONARY ROTARY SCREW COMPRESSOR, 6500 CFM, 100 PSI FINAL PRESSURE, 1600 HP MOTOR, MFG: ATLAS-COPCO, ...1983	1/system	SHIPEA-149, NAVFAC-HI, UTILITIES DEPT (INSIDE SHIPYARD CIA)	SPM EQUIPMENT NO: SA-LAC 904 MODEL #ZR7D SERIAL #ARP 488064
HIGH PRESSURE AIR COMPRESSOR, STATIONARY CENTRIFICAL COMPRESSOR. MFG: ATLAS-COPCO	2/system	PHNSY – S-1182	MODEL #D65-A COMPRESSORS SERIAL # IG0419 SERIAL # IG0420



LOCATION: PEARL SHIPYARD	<h1>LOCATION MAP</h1> <p>PEARL HARBOR NAVAL SHIPYARD</p>		
ROICC FILE NAME: 0149-SHYD-2228-L		AMD/MOD NO.	DATE
		DATE: 11/09/02	

PREVENTIVE MAINTENANCE OVERHAUL RECOMMENDED WORK REQUIREMENTS

- Change or clean inlet air filters;
- Inspect and clean inlet air cleaner;
- Remove, inspect and rebuild inlet throttle assemble;
- Remove, inspect and rebuild unloader assembly;
- Inspect and replace high and low pressure elements balancing piston Diaphragms;
- Inspect and/or rebuild discharge check valve;
- Inspect and/or replace Teflon rings and O rings on large loading piston Assembly;
- Clean gear case breather;
- Take lube oil sample and analyze. Change lube oil;
- Inspect and clean oil pressure valve;
- Replace oil filters;
- Inspect drive coupling and check motor alignment if necessary;
- Recondition oil pumps;
- Disassemble and clean condensation drain traps;
- Pressure test all coolers;
- Inspect bull gear and main bearing oil collection housing for any evidence of Possible bull gear and/or main bearing failure;
- Rebuild HP discharge silencer;
- Recondition oil cooler;
- Recondition aftercoolers
- Recondition blow-off cooler;
- Check motor lubricant;
- Check relief-valve poppet freedom and reseal manually;
- Test and calibrate all safety devices;
- Repair air, oil and water leaks;
- Take SPM monitor point measurement loaded and unloaded;
- Take temperature and gauge readings.
- Perform a 4-hour operational test of the compressor.
- Provide an assessment of the present operational condition of the remaining three (3) compressors at Bldg. 149 by recording the SPM monitor point measurements loaded and unloaded. Also record the temperature and pressure gauge readings. The Contractor shall evaluate the data collected and submit a report to the Contracting Officer identifying the existing condition of the equipment and defining recommendations for future repair and maintenance requirements. This report will be reviewed and approved by the Government.

Notes:

- 1) LPAC Units require Maintenance overhaul once every four (4) years. Current periodicity is staggered to complete maintenance of one (1) LPAC per year.
- 2) Recommended Work Requirements are to be updated as needed after maintenance overhauls and assessments.
- 3) Existing gaskets may contain asbestos. Use proper controls in accordance with 29CFR 1926.1101.

ATLAS-COPCO PART DESCRIPTION	PART NO.	QTY NEEDED PER ORDER
*NOTE: list to be updated as needed		
PREVENTIVE MAINTENANCE OVERHAUL		
A.UNLOADER VALVE		
UNLOADER KIT	2907-0019-00	1
UNLOADER KIT	2910-3038-00	1
B. THROTTLE VALVE		
BOLT	0147-1489-03	2
NUT	0266-2114-00	2
BEARING	0502-7706-00	1
BEARING	0508-2100-02	1
GASKET	0650-1000-90	2
O-RING	0663-2106-10	2
O-RING	0663-2136-00	2
O-RING	0663-6152-00	1
O-RING	0663-6154-00	1
O-RING	0663-9301-00	1
GASKET	1202-9617-00	1
BUSHING	1619-5138-00	2
LOCK NUT	1619-5272-00	1
WASHER	2252-4793-00	2
PISTON, THROTTLE VLV	2252-4796-00	1
PISTON RING	2252-4811-00	1
PISTON RING	2252-4812-00	1
PIN	2252-4871-00	1
BEARING; TEFLON BLOCK	2253-9902-00	1
WASHER	2253-9903-00	1
SHAFT	2253-9904-00	1
GASKET	2255-2537-00	1
C. OIL SYSTEM		
KIT; OIL SAMPLE	1310-3083-46	4
SPRING; RELIEF VALVE, OIL PRESSURE	1613-2353-00	1
FILTER; OIL (#001)	1613-6105-90	4
VALVE; OIL PRESSURE RELIEF (OIL PRESSURE RELIEF VLV)	2252-4964-80	1
PLUNGER; VALVE, OVERFLOW (OIL PRESSURE RELIEF VLV)	2252-4967-00	1
COVER; OIL COOLER - new p/n	1202-6601-00	1
GASKET	2900-0265-00	1
O-RING - new # = 1614625600	2900-0270-00	4
KIT; OIL COOLER SERVICE	2910-5016-00	1
ATLAS-COPCO PART DESCRIPTION	PART NO.	QTY NEEDED PER ORDER
D.AFTERCOOLER CONNECTIONS		
GASKET	0650-1000-90	2
GASKET	0650-1000-97	2
GASKET	0650-1001-11	1
GASKET	0653-1124-00	1
O-RING	0663-6156-00	1

O-RING	0663-6158-00	1
E. INTERCOOLER CONNECTIONS		
GASKET	0650-0100-33	1
GASKET	0650-1000-99	2
GASKET	0650-1001-01	1
GASKET	0650-1001-02	2
GASKET	0650-1001-11	2
GASKET	1613-1432-02	2
GASKET	2253-0534-00	1
F. AIR CHECK VALVE		
PLATE	1619-2919-00	2
PIN	1619-2920-00	2
SPRING	1619-2921-00	1
WASHER	1619-2922-00	6
G. OIL-PUMP		
RING; RETAINING	0335-1120-00	2
KEY	0337-2617-00	2
SHAFT; OIL PUMP	2250-4162-00	2
GEAR; WHEEL	2250-4163-00	1
KIT; PUMP, OIL	2910-0179-00	2
GEAR; WHEEL	9829-0478-00	1
H. INTERCOOLER/AFTERCOOLER		
GASKET; COOLER	0650-0100-23	8
GASKET, MANIFOLD, DISCHARGE	0650-0100-32	4
GASKET, IC MANIFOLD	0650-0100-33	2
GASKET, IC MANIFOLD	0650-1001-01	1
GASKET	0650-1001-02	4
GASKET	1202-9636-00	2
GASKET	1202-9970-00	4
GASKET	2255-2539-00	4
ATLAS-COPCO PART DESCRIPTION	PART NO.	QTY NEEDED PER ORDER
I. BLOW OFF COOLER		
GASKET	0650-1000-90	4
GASKET	1202-6969-00	1
GASKET; TRIANGLE, WATER, PIPING	1202-9619-00	2
GASKET	1202-9808-00	1
GASKET	1202-9809-00	1
J. CONDENSATE DRAINS		
GASKET	0650-1000-95	3
GASKET; (FLOAT VALVE)	0653-1062-00	2
WASHER, FLAT, (FLOAT VALVE)	0653-1100-00	8
O-RING; (FLOAT VALVE)	0663-2112-00	12
VALVE; FLOAT	16192698-00	2

K. AIR INTAKE		
GASKET	0650-0100-32	1
GASKET	0650-0100-33	2
O-RING	0663-9301-00	1
FILTER; AIR	1621-5742-99	6
HOSE	2252-8164-00	2
HUMP HOSE	2252-8995-00	1
L. COOLING SYSTEM/COMPRESSOR SIDE		
GASKET	0650-1000-84	1
GASKET	0650-1000-87	1
GASKET	1202-7001-00	2
GASKET; TRIANGLE, WATER, PIPING	1202-9619-00	2
M. COOLING SYSTEM: INTER/AFTERCOOLER SIDE		
GASKET	0650-1000-95	6
GASKET	0650-1001-14	4
GASKET; PIPING, AFTER/INTERCOOLER	0650-1206-00	4
GASKET; PIPING	0650-1222-00	6
N. MISCELLANEOUS		
GASKET	0650-1000-91	2
GASKET	0650-1000-97	2
ORING	0650-1164-00	1
GASKET	0653-1124-00	4
O-RING	0663-2106-10	2
O-RING	0663-7153-00	2
PLUG	0686-3716-47	4
GASKET; BREATHER GEAR	1090-3026-11	1
GASKET; GEAR CASE	1202-5580-23	1
GASKET	1202-6969-00	6
GASKET	1613-6180-00	2
SHIMS;COUPLING	1619-5279-00	1
ATLAS-COPCO PART DESCRIPTION	PART NO.	QTY NEEDED PER ORDER
HIGH PRESSURE COMPRESSOR ELEMENT		
O-RING; ECCENTRIC	0663-2100-50	1
O-RING: HP ELEMENT	0663-2103-26	1
HP ELEMENT	1616-6305-89	1
LOW PRESSURE COMPRESSOR ELEMENT		
O-RING; LP ELEMENT	0663-2103-26	1
LP ELEMENT	1616-6356-81	1
MAIN BEARING DRIVE COMPONENTS		
LOCKNUT	0295-3132-00	1
WASHER; LOCKWASHER	0333-6132-00	1
BALL BEARING	0502-5039-00	1
ROLLER BEARING	0508-2124-00	1
O-RING (new part #)	0650-1000-88	1

O-RING	0663-2100-50	1
O-RING	0663-2103-26	3
O-RING	0663-6176-00	1
O-RING	0663-9277-00	1
SEAL; OIL	2252-3750-00	1
SPRING; WAVE	2252-3751-00	1
O-RING	2252-4637-00	1
BUSHING	2252-8353-00	1
OIL PUMP COMPONENTS		
BEARING; BALL, IDLER	0502-2106-00	2
O-RING	0663-2106-10	1
O-RING	0663-2123-00	1
O-RING	0663-2125-00	1
O-RING	0663-3127-00	1
O-RING	0663-3131-00	1
O-RING	0663-6176-00	1
O-RING	0663-7177-00	1
SEAL RING	2252-3750-00	1
WAVE SPRING	2252-3751-00	1
STUD	2252-4881-00	1

NOTES:

1. The parts listed in this attachment shall be provided by the Contractor as listed for each ELIN as specified. The list is not all-inclusive. The Contractor shall provide an updated list upon request by the Government or as other parts are required. The Contractor will be reimbursed for any required parts not listed in this attachment, which has been approved by the Contracting Officer.
2. The Contractor's proposed price shall incorporate any credit for returned core items.
3. The Contractor shall be responsible for all shipping costs of parts and materials listed in this attachment to complete the job. The Contractor shall also be responsible for the shipping cost of items that are to be returned to the manufacturer.
4. The items shipped shall be insured and shipped in accordance with standard commercial practice to ensure safe delivery to the destination.

SAMPLE LOW PRESSURE AIR COMPRESSOR LOG

COMPRESSOR NUMBER _____

TIME	DISCHARGE PRESSURE	INTERCOOLER INLET PRESSURE	COOLING WATER PRESSURE	OIL PRESSURE	INLET AIR TEMPERATURE	INLET AIR PRESSURE	HP AIR DISCH TEMP	OUTLET AIR TEMPERATURE	OIL TEMPERATURE	INLET WATER TEMPERATURE	COMP. WATER CIRCUIT TEMP	INTERCOOLER OUT WTR TEMP	AFTERCOOLER OUT WTR TEMP	INTER COOLER OUT AIR TEMP	LP LOWER AIR DISCHARGE TEMP	LP UPPER AIR DISCHARGE TEMP	OIL FILTER DIFF PRESSURE
	MIN. 70 psi MAX. 125 psi	10 psi UNLOADED 32 psi LOAD	40 psi MIN. 70 psi MAX.	20 PSI MIN. 60 PSI MAX	AMBIENT / 130 DEG F MAX	0-5 NOR 5-10 CHG FILTER 15 MAX	300-500 NORMAL 430 SHUT DOWN	100 - 125 NORMAL 150 MAX	100-150 NORMAL 175 MAX	95 MAX	100-122 NORMAL 125 MAX	105-122 NORMAL 125 MAX	105 -122 NORMAL 125 MAX	140 MAX	350 NORMAL 390 MAX	350 NORMAL MAX	15 MAX
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