

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 24 Sep 2002	4. REQUISITION/PURCHASE REQ. NO. 35-0319-02	5. PROJECT NO. (If applicable)	
6. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVENUE SW WASHINGTON, DC 20375-5326 ATTN: CODE 3230.CG		CODE N00173	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)	9A. AMENDMENT OF SOLICITATION NO. N00173-02-R-CG02
				X	9B. DATED (SEE ITEM 11) 18 Sep 2002
					10A. MODIFICATION OF CONTRACT/ORDER NO.
					10B. DATED (SEE ITEM 11)
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers 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 2 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 your 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)

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	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 is not, 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.)

The purpose of this amendment is to restructure Sections B and H in Solicitation N00173-02-R-CG02 which was posted on 18 September 2002. N00173-02-R-CG02 is hereby replaced in its entirety by the attached, amended solicitation.

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)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED	
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

IMPORTANT NOTICE

The U.S. Postal Service continues to irradiate letters, flats, Express and Priority Mail with stamps for postage and other packages with stamps for postage destined to government agencies in the ZIP Code ranges 202 through 205.

Mail that is irradiated may exhibit a discolored (tan-colored) quality, as well as be brittle, show spots on envelopes and make address labels unreadable. Irradiation may destroy electronic format materials provided on computer discs. Customers and businesses sending mail to ZIP Codes 202-205 can avoid the irradiation process by affixing postage meter strips or permit indicia instead of postage stamps to Express or Priority Mail. The use of corporate accounts for Express Mail or registered mail also is another way to avoid the irradiation process.

Due to potential delays in receiving mail and potential for receipt of damaged computer discs, offerors are encouraged to use alternatives to the mail when submitting proposals.

This solicitation contains the provision at FAR 52.215-5 which authorizes facsimile proposals. Offerors are encouraged to use alternatives to the mail when submitting proposals.

2. CONTRACT NO. 3. SOLICITATION NO. **N00173-02-R-CG02** 4. TYPE OF SOLICITATION
 SEALED BID (IFB) 5. DATE ISSUED **18 September 2002** 6. REQUISITION/PURCHASE NO.

7. ISSUED BY CONTRACTING OFFICER
 NAVAL RESEARCH LABORATORY
 4555 OVERLOOK AVENUE SW
 WASHINGTON DC 20375-5326
 ATTN: CODE 3230.CG CODE **N00173** 8. ADDRESS OFFER TO (If other than Item 7)

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 2 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in See Section L-2 until 4 PM local time 18 Oct 2002
 (Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL: A. NAME **Gregory Carter** B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) **(202)767-6746**

11. TABLE OF CONTENTS

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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8) 10 CALENDAR DAYS % 20 CALENDAR DAYS % 30 CALENDAR DAYS % CALENDAR DAYS %

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:

AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR CODE FACILITY 16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

15B. TELEPHONE NO. (Include area code) 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE. 17. SIGNATURE 18. OFFER DATE

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED 20. AMOUNT 21. ACCOUNTING AND APPROPRIATION

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:
 10 U.S.C. 2304(c) () 41 U.S.C. 253(c) () 23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified) ITEM

24. ADMINISTERED BY (If other than Item 7) CODE 25. PAYMENT WILL BE MADE BY CODE

26. NAME OF CONTRACTING OFFICER (Type or print) 27. UNITED STATES OF AMERICA (Signature of Contracting Officer) 28. AWARD DATE

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

**PART I - THE SCHEDULE
SECTION B
SUPPLIES OR SERVICES AND PRICES/COSTS**

B-1 SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM NUMBER	SUPPLIES OR SERVICES	QTY	UNIT	UNIT PRICE	AMOUNT
0001	The contractor shall Evaluate the condition and performance of all equipment on a weekly basis, in accordance with Section C.	52	EA	\$	\$
0002	The contractor shall provide all necessary labor and materials to perform preventative maintenance on each of the two air compressors in accordance with Section C.				
0002AA	Change oil and replace Filters	4	EA	\$	\$
0002AB	Conduct oil sample analysis	24	EA	\$	\$
0002AC	Manually operate/test Safety relief valves	8	EA	\$	\$
0002AD	Clean condensate float Valve	8	EA	\$	\$
0002AE	Test safety relief valves and replace, if necessary.	2	EA	\$	\$
0002AF	Test temperature shutdown Functions (each compressor)	2	EA	\$	\$
0002AG	Remove, clean, and inspect Restrictors	4	EA	\$	\$
0002AH	Replace air intake filters	4	EA	\$	\$
0002AJ	Re-grease motor drive Bearings	2	EA	\$	\$
0002AK	Replace air/oil separator	2	EA	\$	\$
0002AL	Perform operational test Of electrical interlockings and pre-shutdown limits	2	EA	\$	\$

0003	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the heatless compressed air dryer in accordance with Section C.				
0003AA	Remove a sample of drying Media and factory test for drying capability	1	EA	\$	\$
0003AB	Test safety relief valves And/or replace with new	2	EA	\$	\$
0004	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the cooling tower, in accordance with Section C.				
0004AA	Inspect heat transfer System	12	EA	\$	\$
0004AB	Inspect spray nozzles	12	EA	\$	\$
0004AC	Lubricate fan and motor Bearings	2	EA	\$	\$
0004AD	Replace fan belts	2	EA	\$	\$
0005	The contractor shall Perform any unscheduled repairs,in accordance with section C, as needed and after receiving the approval of the Contracting Officer's Technical Representative.				
0005AA	Unscheduled repairs		Not-to-Exceed		\$

LABOR CATEGORY	MAXIMUM HOURLY RATE	MAXIMUM HOURS	MAXIMUM DOLLARS
Air Compressor Mechanic – <i>(See Note at End of Section B)</i>	\$	1200	\$
Maintenance Trades Helper	\$	200	\$
Pipefitter, Maintenance	\$	200	\$

0005AB	Materials required for all unscheduled repairs.	Not-to-Exceed	\$
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TOTAL DOLLAR AMOUNT FOR CLINs* 0001 - 0005:	\$
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OPTION ONE – YEAR TWO

0006	The contractor shall Evaluate the condition and performance of all equipment on a weekly basis, in accordance with Section C.	52	EA	\$		\$
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0007	The contractor shall provide all necessary labor and materials to perform preventative maintenance on each of the two air compressors in accordance with Section C.
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0007AA	Change oil and replace Filters	4	EA	\$		\$
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0007AB	Conduct oil sample analysis	24	EA	\$		\$
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0007AC	Manually operate/test Safety relief valves	8	EA	\$		\$
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0007AD	Clean condensate float Valve	8	EA	\$		\$
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0007AE	Test safety relief valves and replace, if necessary.	2	EA	\$		\$
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0007AF	Test temperature shutdown Functions (each compressor)	2	EA	\$		\$
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0007AG	Remove, clean, and inspect Restrictors	4	EA	\$		\$
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0007AH	Replace air intake filters	4	EA	\$		\$
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0007AJ	Re-grease motor drive Bearings	2	EA	\$		\$
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0007AK	Replace air/oil separator	2	EA	\$		\$
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0007AL	Perform operational test Of electrical interlockings and pre-shutdown limits	2	EA	\$		\$
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0008 The contractor shall provide all necessary labor and materials to perform preventative maintenance on the heatless compressed air dryer in accordance with Section C.

0008AA Remove a sample of drying Media and factory test for drying capability 1 EA \$ \$

0008AB Test safety relief valves And/or replace with new 2 EA \$ \$

0009 The contractor shall provide all necessary labor and materials to perform preventative maintenance on the cooling tower, in accordance with Section C.

0009AA Inspect heat transfer System 12 EA \$ \$

0009AB Inspect spray nozzles 12 EA \$ \$

0009AC Lubricate fan and motor Bearings 2 EA \$ \$

0009AD Replace fan belts 2 EA \$ \$

0010 The contractor shall Perform any unscheduled repairs, in accordance with section C, as needed and after receiving the approval of the Contracting Officer's Technical Representative.

0010AA Unscheduled repairs Not-to-Exceed \$

LABOR CATEGORY	MAXIMUM HOURLY RATE	MAXIMUM HOURS	MAXIMUM DOLLARS
Air Compressor Mechanic – <i>(See Note at End of Section B)</i>	\$	1200	\$
Maintenance Trades Helper	\$	200	\$
Pipefitter, Maintenance	\$	200	\$

0010AB	Materials required for all unscheduled repairs.	Not-to-Exceed	\$
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TOTAL DOLLAR AMOUNT FOR CLINs 0005 - 0010:	\$
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OPTION TWO – YEAR THREE

0011	The contractor shall Evaluate the condition and performance of all equipment on a weekly basis, in accordance with Section C.	52	EA	\$		\$
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0012	The contractor shall provide all necessary labor and materials to perform preventative maintenance on each of the two air compressors in accordance with Section C.					
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0012AA	Change oil and replace Filters	4	EA	\$		\$
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0012AB	Conduct oil sample analysis	24	EA	\$		\$
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0012AC	Manually operate/test Safety relief valves	8	EA	\$		\$
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0012AD	Clean condensate float Valve	8	EA	\$		\$
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0012AE	Test safety relief valves and replace, if necessary.	2	EA	\$		\$
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0012AF	Test temperature shutdown Functions (each compressor)	2	EA	\$		\$
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0012AG	Remove, clean, and inspect Restrictors	4	EA	\$		\$
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0012AH	Replace air intake filters	4	EA	\$		\$
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0012AJ	Re-grease motor drive Bearings	2	EA	\$		\$
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0012AK	Replace air/oil separator	2	EA	\$		\$
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0012AL	Perform operational test Of electrical interlockings and pre-shutdown limits	2	EA	\$		\$
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0013	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the heatless compressed air dryer in accordance with Section C.				
0013AA	Remove a sample of drying Media and factory test for drying capability	1	EA	\$	\$
0013AB	Test safety relief valves And/or replace with new	2	EA	\$	\$
0014	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the cooling tower, in accordance with Section C.				
0014AA	Inspect heat transfer System	12	EA	\$	\$
0014AB	Inspect spray nozzles	12	EA	\$	\$
0014AC	Lubricate fan and motor Bearings	2	EA	\$	\$
0014AD	Replace fan belts	2	EA	\$	\$
0015	The contractor shall Perform any unscheduled repairs,in accordance with section C, as needed and after receiving the approval of the Contracting Officer's Technical Representative.				
0015AA	Unscheduled repairs		Not-to-Exceed		\$

LABOR CATEGORY	MAXIMUM HOURLY RATE	MAXIMUM HOURS	MAXIMUM DOLLARS
Air Compressor Mechanic – <i>(See Note at End of Section B)</i>	\$	1200	\$
Maintenance Trades Helper	\$	200	\$
Pipefitter, Maintenance	\$	200	\$

0015AB	Materials required for all unscheduled repairs.	Not-to-Exceed	\$
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TOTAL DOLLAR AMOUNT FOR CLINs* 0011-0015:			\$
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OPTION THREE – YEAR FOUR

0016	The contractor shall Evaluate the condition and performance of all equipment on a weekly basis, in accordance with Section C.	52	EA	\$	\$
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0017	The contractor shall provide all necessary labor and materials to perform preventative maintenance on each of the two air compressors in accordance with Section C.				
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0017AA	Change oil and replace Filters	4	EA	\$	\$
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0017AB	Conduct oil sample analysis	24	EA	\$	\$
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0017AC	Manually operate/test Safety relief valves	8	EA	\$	\$
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0017AD	Clean condensate float Valve	8	EA	\$	\$
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0017AE	Test safety relief valves and replace, if necessary.	2	EA	\$	\$
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0017AF	Test temperature shutdown Functions (each compressor)	2	EA	\$	\$
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0017AG	Remove, clean, and inspect Restrictors	4	EA	\$	\$
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0017AH	Replace air intake filters	4	EA	\$	\$
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0017AJ	Re-grease motor drive Bearings	2	EA	\$	\$
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0017AK	Replace air/oil separator	2	EA	\$	\$
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0017AL	Perform operational test Of electrical interlockings and pre-shutdown limits	2	EA	\$	\$
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0018	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the heatless compressed air dryer in accordance with Section C.				
0018AA	Remove a sample of drying Media and factory test for drying capability	1	EA	\$	\$
0018AB	Test safety relief valves And/or replace with new	2	EA	\$	\$
0019	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the cooling tower, in accordance with Section C.				
0019AA	Inspect heat transfer System	12	EA	\$	\$
0019AB	Inspect spray nozzles	12	EA	\$	\$
0019AC	Lubricate fan and motor Bearings	2	EA	\$	\$
0019AD	Replace fan belts	2	EA	\$	\$
0020	The contractor shall Perform any unscheduled repairs,in accordance with section C, as needed and after receiving the approval of the Contracting Officer's Technical Representative.				
0020AA	Unscheduled repairs		Not-to-Exceed		\$

LABOR CATEGORY	MAXIMUM HOURLY RATE	MAXIMUM HOURS	MAXIMUM DOLLARS
Air Compressor Mechanic – <i>(See Note at End of Section B)</i>	\$	1200	\$
Maintenance Trades Helper	\$	200	\$
Pipefitter, Maintenance	\$	200	\$

0020AB	Materials required for all unscheduled repairs.		Not-to-Exceed		\$
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TOTAL DOLLAR AMOUNT FOR CLINs* 0016 - 0020:					\$
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OPTION FOUR – YEAR FIVE

0021	The contractor shall Evaluate the condition and performance of all equipment on a weekly basis, in accordance with Section C.	52	EA	\$	\$
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0022	The contractor shall provide all necessary labor and materials to perform preventative maintenance on each of the two air compressors in accordance with Section C.				
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0022AA	Change oil and replace Filters	4	EA	\$	\$
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0022AB	Conduct oil sample analysis	24	EA	\$	\$
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0022AC	Manually operate/test Safety relief valves	8	EA	\$	\$
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0022AD	Clean condensate float Valve	8	EA	\$	\$
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0022AE	Test safety relief valves and replace, if necessary.	2	EA	\$	\$
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0022AF	Test temperature shutdown Functions (each compressor)	2	EA	\$	\$
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0022AG	Remove, clean, and inspect Restrictors	4	EA	\$	\$
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0022AH	Replace air intake filters	4	EA	\$	\$
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0022AJ	Re-grease motor drive Bearings	2	EA	\$	\$
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0022AK	Replace air/oil separator	2	EA	\$	\$
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0022AL	Perform operational test Of electrical interlockings and pre-shutdown limits	2	EA	\$	\$
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0023	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the heatless compressed air dryer in accordance with Section C.				
0023AA	Remove a sample of drying Media and factory test for drying capability	1	EA	\$	\$
0023AB	Test safety relief valves And/or replace with new	2	EA	\$	\$
0024	The contractor shall provide all necessary labor and materials to perform preventative maintenance on the cooling tower, in accordance with Section C.				
0024AA	Inspect heat transfer System	12	EA	\$	\$
0024AB	Inspect spray nozzles	12	EA	\$	\$
0024AC	Lubricate fan and motor Bearings	2	EA	\$	\$
0024AD	Replace fan belts	2	EA	\$	\$
0025	The contractor shall Perform any unscheduled repairs,in accordance with section C, as needed and after receiving the approval of the Contracting Officer's Technical Representative.				
0025AA	Unscheduled repairs		Not-to-Exceed		\$

LABOR CATEGORY	MAXIMUM HOURLY RATE	MAXIMUM HOURS	MAXIMUM DOLLARS
Air Compressor Mechanic – <i>(See Note at End of Section B)</i>	\$	1200	\$
Maintenance Trades Helper	\$	200	\$
Pipefitter, Maintenance	\$	200	\$

0025AB	Materials required for all unscheduled repairs.	Not-to-Exceed	\$
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TOTAL DOLLAR AMOUNT FOR CLINs* 0021 – 0025			\$
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TOTAL DOLLAR AMOUNT FOR ALL CLINs*, IF EXERCISED:			\$
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*CONTRACT LINE ITEM NUMBER

Note: Air Compressor Mechanic could be classified as any of the following three labor categories listed in the applicable wage determination (Electronics Technician-Maintenance III, Machinery Maintenance Mechanic, and Stationary Engineer), but should maintain the qualifications set forth in Attachment (1), Exhibit (A) – Personnel Qualifications.

SECTION C DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

C-1 The work under this contract shall be performed in accordance with Attachment (1), Statement of Work, with Exhibit A, DD Form 1423, Contracts Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 19 October 2001 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

SECTION D PACKAGING AND MARKING

D-1 Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

(b) The principal place of performance of this contract shall be NRL, Washington, DC.

**SECTION G
CONTRACT ADMINISTRATION DATA**

G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Contract Matters- *

Security Matters- *

Safety Matters- *

Patent Matters- *

Release of Data- *

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 1008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

(* To be filled in at time of award)

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

(* To be filled in at time of award)

G-3 NAPS 5252.232-9000 - SUBMISSION OF INVOICES (FIXED PRICE) (JUL 1992)(APPLIES TO CLINS 0001-0004 ONLY)

(a) "Invoices" as used in this clause does not include contractor's requests for progress payments.

(b) The contractor shall submit original invoices with 4 copies to the address identified in the solicitation/contract award form (SF 26-Block 10; SF 33-Block 23; SF 1447-Block 14), unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order (DD 1155-Block 13 or SF 26-Block 10).

(c) The use of copies of the Material Inspection and Receiving Report (MIRR), DD Form 250, as an invoice is encouraged. DFARS Appendix F-306 provides instructions for such use. Copies of the MIRR used as an invoice are in addition to the standard distribution stated in DFARS F-401.

(d) In addition to the requirements of the Prompt Payment clause of this contract, the contractor shall cite on each invoice the contract line item number (CLIN); the contract subline item number (SLIN), if applicable; the accounting classification reference number (ACRN) as identified on the financial accounting data sheets, and the payment terms.

(e) The contractor shall prepare:

- a separate invoice for each activity designated to receive the supplies or services.
- a consolidated invoice covering all shipments delivered under an individual order.
- either of the above.

(f) If acceptance is at origin, the contractor shall submit the MIRR or other acceptance verification directly to the designated payment office. If acceptance is at destination, the consignee will forward acceptance verification to the designated payment office.

G-4 INVOICING ADDRESS(APPLICABLE TO CLINS 0001-0004 ONLY)

With reference to paragraph (b) of the above provision, "Submission of Invoices(Fixed Price)", the contractor shall submit invoices to the address in Block 12 of the contract award form (SF26).

G-5 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)(APPLICABLE TO CLIN 0005 ONLY)

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to the contract auditor at the following address:

(To be completed at time of award)

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)
- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number(ACRN)
- (4) Payment terms
- (5) Procuring activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract

- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
- (e) A DD Form 250, "Material Inspection and Receiving Report",
- is required with each invoice submittal.
 - is required only with the final invoice.
 - is not required.
- (f) A Certificate of Performance
- shall be provided with each invoice submittal.
 - is not required.
- (g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.
- (h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

G-6 CONTRACT CEILING PRICE(APPLICABLE TO CLIN 0005 ONLY)

- (a) The amount of \$ * is presently available for payment and allotted to this contract. This amount is the ceiling price that the contractor shall not exceed except at its own risk. It is estimated that this amount is sufficient for performance of the contract through *.
- (b) The not-to-exceed price stated in Section B is the Government's estimate of the price of the maximum labor and materials required to perform this contract. The parties contemplate that the Government will allot additional funds incrementally to the contract up to the full not-to-exceed amount or to a lesser amount necessary to perform the contract.
- (c) The Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor will not be obligated to continue work beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract regardless of anything to the contrary in any other clause or provision of this contract.
- (d) The Contractor shall notify the Contracting Officer in writing at least sixty days prior to the date when, in the Contractor's best judgment, the work under the contract will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate the total amount then allotted to the contract. The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance through the current period of performance or to a mutually agreed upon substitute date. If after such

notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer, upon the Contractor's written request, will terminate the contract on that date in accordance with the provisions of the Termination clause of this contract.

(e) If, solely by reason of failure of the Government to allot additional funds in amounts sufficient for timely performance of the contract, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or in the period of performance, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "Disputes."

(f) The Government may at any time prior to termination allot additional funds for the performance of the contract.

(g) Nothing in this clause affects the rights of the Government to terminate this contract pursuant to other clause or provisions of this contract.

(* To be filled in at time of award)

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

(To be filled in at time of award)

H-2 REPRESENTATIONS AND CERTIFICATIONS

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

H-3 OPTION TO EXTEND SERVICES

The Government may require continued performance of any services within the limits and at the rates specified in the contract. The Contracting Officer may exercise the option by written notice to the Contractor anytime prior to contract completion. The Government may elect to exercise its option by issuing a new contract for the option. Except as provided in the schedule, the new contract will have the same terms and conditions as this contract including any unexercised options.

**PART II - CONTRACT CLAUSES
SECTION I
CONTRACT CLAUSES**

I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

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 this/these address(es):

<http://www.arnet.gov/far>
<http://heron.nrl.navy.mil/contracts/home.htm>

a. FEDERAL ACQUISITION REGULATION CLAUSES

<u>FAR CLAUSE</u>	<u>TITLE</u>
52.202-1	- Definitions (DEC 2001)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52.203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)
52.204-4	- Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-5	- Material Requirements (AUG 2000)
52.211-15	- Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	- Audit And Records-Negotiation (JUN 1999)
52.215-8	- Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-14	- Integrity Of Unit Prices (OCT 1997)
52.215-15	- Pension Adjustments And Asset Reversions (DEC 1998)
52.215-18	- Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)
52.215-19	- Notification Of Ownership Changes (OCT 1997)
52.215-21	- Requirements For Cost And Pricing Data Or Information Other Than Cost Or Pricing Data - Modifications (OCT 1997) - Alternate IV (OCT 1997)
52.217-8	- Option To Extend Services (NOV 1999)

- 52.219-6 - Notice Of Total Small Business Set-Aside (JUL 1996)
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-4 - Contract Work Hours And Safety Standards Act-Overtime Compensation (SEP 2000)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-41 - Service Contract Act Of 1965, As Amended (MAY 1989)
- 52.222-43 - Fair Labor Standards Act And Service Contract Act - Price Adjustment (Multiple Year And Option Contracts) (MAY 1989)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention and Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.227-1 - Authorization And Consent (JUL 1995)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-3 - Patent Indemnity (APR 1984)
- 52.228-5 - Insurance - Work on a Government Installation (JAN 1997)
- 52.229-3 - Federal, State, And Local Taxes (JAN 1991)
- 52.229-5 - Taxes - Contracts Performed In U.S. Possessions Or Puerto Rico (APR 1984)
- 52.232-1 - Payments (APR 1984)**(Applicable to CLINs 0001-0004 only)**
- 52.232-7 - Payments Under Time-And-Materials And Labor-Hour Contracts (MAR 2000)**(Applicable to CLIN 0005 only)**
- 52.232-8 - Discounts For Prompt Payment (FEB 2002)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-11 - Extras (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)**(Applicable to CLIN 0005 only)**
- 52.232-23 - Assignment Of Claims (JAN 1986)
- 52.232-25 - Prompt Payment (FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998)
- 52.233-3 - Protest After Award (AUG 1996)

- 52.237-2 - Protection Of Government Buildings, Equipment, And Vegetation (APR 1984)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-1 - Changes - Fixed Price (AUG 1987) Alternate II (APR 1984)**(Applicable to CLINs 0001-0004 only)**
- 52.243-3 - Changes--Time-And-Materials Or Labor-Hours (SEP 2000)**(Applicable to CLIN 0005 only)**
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)**(Applicable to CLIN 0005 only)**
- 52.244-6 - Subcontracts For Commercial Items (MAY 2002)
- 52.245-1 - Property Records (APR 1984)
- 52.245-2 - Government Property (Fixed-Price Contracts) (DEC 1989) Alternate I (APR 1984) (DEVIATION)**(Applicable to CLINs 0001-0004 only)**
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)**(Applicable to CLIN 0005 only)**
- 52.245-9 - Use And Charges (APR 1984)(DEVIATION)(CLIN 0005 only)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.248-1 - Value Engineering (FEB 2000)
- 52.249-4 - Termination For Convenience Of The Government (Services) (Short Form) (APR 1984)**(Applicable to CLINs 0001-0004 only)**
- 52.249-6 - Termination (Cost - Reimbursement) (SEP 1996) Alternate IV (SEP 1996)**(Applicable to CLIN 0005 only)**
- 52.249-8 - Default (Fixed-Price Supply And Service) (APR 1984)
- 52.249-14 - Excusable Delays (APR 1984)(CLIN 0005 only)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations In Clauses (APR 1984) fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2);
- 52.253-1 - Computer Generated Forms (JAN 1991)

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (NOV 2001)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.223-7001 - Hazard Warning Labels (DEC 1991)

- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (MAR 1998)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7009 - Duty-Free Entry - Qualifying Country Supplies (End Products And Components) (AUG 2000)
- 252.225-7012 - Preference For Certain Domestic Commodities (APR 2002)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (DEC 2000)
- 252.225-7025 - Restriction On Acquisition Of Forgings (JUN 1997)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7009 - Mandatory Payment By Governmentwide Commercial Purchase Card (JUL 2000)
- 252.242-7000 - Postaward Conference (DEC 1991)
- 252.243-7001 - Pricing Of Contract Modifications (DEC 1991)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000) (*will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022*)
- 252.251-7000 - Ordering From Government Supply Sources (MAY 1995)

I-2 FAR 52.222-42 - STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY:
IT IS NOT A WAGE DETERMINATION

Employee Class	Monetary Wage-Fringe Benefits
Electronics Tech.- Maintenance III	\$25.39 (WG-13)
Machinery Maintenance Mechanic	\$24.26 (WG-12)
Maintenance Trades Helper	\$17.05 (WG-06)
Pipefitter, Maintenance	\$21.97 (WG-10)
Stationary Engineer	\$30.23 (WS-12)

I-3 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) * _____, a substance(s)

which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
SECTION J
LIST OF ATTACHMENTS

- J-1** Attachment (1) - Statement of Work - 14 Pages, with Enclosure (1) Personnel Qualifications – 1 Page
- J-2** Attachment (2) – Preventive Maintenance Checklist-3 Pages
- J-3** Attachment (3)-Accounting and Appropriation Data. 1 page. *
- J-4** Wage Determination 94-2104, 05/24/2002,8 pages

PART IV - REPRESENTATIONS AND INSTRUCTIONS
SECTION K
REPRESENTATIONS, CERTIFICATIONS
AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

K-1 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

Use Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)

The fill in information is as follows:
The NAICS code for this acquisition is 421830
The small business size standard is 100 EMPLOYEES

SECTION L**INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS OR RESPONDENTS****L-1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE
(FEB 1998)**

This solicitation incorporates one or more solicitation provisions 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. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>
<http://heron.nrl.navy.mil/contracts/home.htm>

FAR CLAUSE TITLE

- | | | |
|-----------|---|--|
| 52.204-6 | - | Data Universal Numbering System (DUNS) Number (JUNE 1999) |
| 52.215-1 | - | Instructions To Offerors- Competitive Acquisition (MAY 2001) |
| 52.215-5 | - | Facsimile Proposals (OCT 1997)
Paragraph (c) is completed as follows: (202) 767- 6197 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to gcarter @contracts.nrl.navy.mil (primary) or fleming @contracts.nrl.navy.mil (alternate) in either Microsoft Word (version 97 or earlier) or pdf format. |
| 52.215-16 | - | Facilities Capital Cost Of Money (OCT 1997) |
| 52.237-1 | - | Site Visit (APR 1984) |

DFAR CLAUSE TITLE

- | | | |
|--------------|---|--|
| 252.209-7001 | - | Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (MAR 1998) |
|--------------|---|--|

L-2 SITE VISIT

There will be a site visit held at the Naval Research Laboratory, DC that will start in front of building 149. The site visit will be held on October 2, 2002, between the hours of 10:00am and 11:00am. Contractors interested in attending must contact Greg Carter by phone at 202-767-6746 or via e-mail at gcarter@contracts.nrl.navy.mil to be placed on the list of attendees. On the date of the site visit, Contractors who have been placed on the list of attendees must report to the Visitor Center in Building 72 outside the front gate. Anyone wishing to gain access to the Laboratory for the scheduled site visit must bring with them the proper identification and a record of citizenship or valid green card.

L-3 INSTRUCTIONS FOR RECEIPT OF PROPOSALS/OFFERS

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors-Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or overnight delivery services shall be addressed to:

Contracting Office
Naval Research Laboratory(NRL)
4555 Overlook Avenue, S.W.
Washington, D.C. 20375
Solicitation/RFP No. – N00173-02-R-CG02
Closing Date: _October 18, 2002_____Time4:00 PM EST_____

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/aboutdc.htm>

If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

L-4 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be a DX rated order; DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will

L-5 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997) ALTERNATE IV (OCT 1997)

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below :
Offerors should provide information to enable the Contracting Officer to determine that the proposed price is fair and reasonable. Such information could include published price lists, information on previous sales of the same of similar items, or the projected costs of fabricating and installing the item (material costs, labor costs, etc).

L-6 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a hybrid contract with both Firm Fixed Price Services line items and Time and Materials line items resulting from this solicitation.

L-7 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Receptionist Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L-8 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-9 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-10 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS

(1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).

(2) Proposal Identification/Mailing - The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

Solicitation No. N00173-02-R-CG02

Closing Date:

(As specified in Block 9, RFP face page)

Attn: Code 3230.CG

(3) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 2 COPIES .

- (1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work.
- (2) The following information is required for evaluation of your technical/management :

A. PERSONNEL QUALIFICATIONS: The proposer should provide convincing evidence that the company has, or has the ability, to obtain personnel with relevant experience in the areas described in Enclosure (1) of the Statement of Work. The proposal should clearly show how each person offered meets the personnel qualifications as detailed in the Solicitation.

B. COMPANY EXPERIENCE: The proposal must provide a narrative description of company experience on jobs with requirements and equipment similar to those specified in the Statement of Work. This description should clearly show: (1) the relationship between the company's experience and the tasks required under the Statement of Work and (2) prior or current contracts/purchase orders requiring the same or similar types of maintenance and repair on equipment similar to that which will be maintained and repaired under the prospective contract.

C. PAST PERFORMANCE INFORMATION: (a) Offerors shall submit the following information as part of their proposal. (Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.) List the last 3 contracts or subcontracts completed by the offeror or predecessor companies

during the past 2 years for services similar in nature to this requirement. Include in the 3 any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

1. Name of contracting organization.
2. Contract number
3. Contract type
4. Total contract value
5. Description of the contract work
6. Contracting officer and telephone number
7. Contracting officer's representative, program manager, or similar official and telephone number

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/home.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

(c) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations.

L-12 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 2 COPIES

(1) PRICE PROPOSAL

The offeror shall submit a business proposal that includes a price proposal with supporting information. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate the price.

**SECTION M
EVALUATION FACTORS FOR AWARD**

M-1 EVALUATION

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed price and other factors considered. The Government reserves the right to make award to other than the low offeror.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the price factor.

M-2-1. TECHNICAL/MANAGEMENT

(1) PERSONNEL QUALIFICATIONS

The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with: (1) the appropriate qualifications as set forth in Enclosure (1) of the Statement of Work; and (2) actual relevant experience in the technical and scientific areas set forth in the Statement of Work.

(2) COMPANY EXPERIENCE

The proposal will be evaluated on the offeror's demonstrated company experience in performing jobs, which are closely similar or related to the requirements set forth in the attached Statement of Work.

(3) PAST PERFORMANCE

Past performance will be evaluated on the basis of the quality of the work performed or supplies delivered and timeliness of performance or delivery. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of

proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

M-2-2 PRICE TO THE GOVERNMENT

Proposed estimated price to the Government.

M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

STATEMENT OF WORK

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DIVISION I

MAINTENANCE CONTRACT
STATION AIR COMPRESSORS

1.001 GENERAL: The Contractor shall provide all labor, materials, and equipment necessary to service and perform preventative maintenance and repairs on two (2) station air compressors, two (2) compressed air filters, one (1) heatless regenerative compressed air dryer and one (1) cooling tower. The preventative maintenance work shall include but not limited to additional components associated with the compressed air generating equipment that includes a water treatment system, cooling water systems, compressed air system and electrical systems.

1.002. SCHEDULE OF WORK: The Contractor shall perform a weekly site visit to the compressed air generating facility (Building 149) to observe, service, maintain, inspect, test, adjust, validate and record all equipment while in the operating mode. Other identified work shall include monthly, quarterly, semi-annual and annual preventative maintenance work.

1.003. WEEKLY CHECKPOINT CHECKLIST: The Contractor shall follow the attached weekly checkpoint checklist to perform observations, servicing, maintenance, inspections, tests, validations and recordings of all compressed air generating and associated equipment defined in this contract (See Attachment 2). The weekly recordings must be entered in the attached weekly recording sheets and remarks section log so the data are available for review by the COTR.

1.004. UNSCHEDULED REPAIR WORK: If during weekly checkpoint checklist observations, servicing, maintenance, inspections, tests, adjusting, validations and recordings any operational deficiencies are discovered, the Contractor shall enter the deficiency in the remarks section of the weekly log sheet. In addition to the documented deficiency, the contractor shall provide a detailed cost estimate with labor hours and materials to correct the deficiency. The deficiency, along with the estimate for the repair work, shall be reviewed by the Contracting Officer's Technical Representative (COTR) in order to validate then authorize the repair work.

1.005. HOUSEKEEPING: During the contract period, the Contractor shall be responsible for maintaining a clean environment in, on and around all equipment, their surfaces and systems associated with the compressed air generating facility. All generating equipment, components and systems shall be maintained in a manner to be free from accumulations of dirt, dust, grease, oil, etc. at all times. This includes any internal portions of the equipment that may be subject to accumulated dirt, dust, grease, oil etc. Any debris collected during housekeeping may be disposed of utilizing the refuse dumpster located outside of the generating facility (Building 149), as long as this debris does not create an environmental hazard and/or fire hazard. The contractor

is responsible for disposal of any and all hazardous material (fire, environmental, etc.). The disposal of metal debris in the dumpster is prohibited.

1.006. **CONTRACTOR'S QUALIFICATIONS:** As a minimum, all contractors offering on this contract shall have a minimum five (5) years of experience in the area of sales and service of minimum 50 HP industrial type rotary screw and reciprocating stationary air compressors. The contractor's service personnel shall be factory-trained technicians specializing in the area of preventative maintenance, repair and overhaul of minimum 50 HP industrial type rotary screw and reciprocating stationary air compressors. Upon request from the Government, the contractor shall provide the necessary documentation that indicates that the organization is qualified and has factory trained personnel to perform preventative maintenance and repair work as it pertains to this contract.

1.007. **EXECUTION OF WORK:** The Contractor shall perform all weekly checkpoints on the first day of each week (Monday) and during normal hours of operation, 7:00 am through 4:30 pm. If in the event that Monday is a federal holiday, the scheduled work shall be performed on the next day (Tuesday).

1.008. **UNSCHEDULED EMERGENCY REPAIR WORK:** The Contractor shall be available for unscheduled emergency repair work. The emergency repair work notification will be telephone generated by the Contracting Officer's Technical Representative. The emergency repair work will include normal working hours availability and/or out-of-hours/weekend availability. Normal working hours availability will require a two (2) hour response time and out-of-hours/weekend availability will require a three (3) hour response time. Both response times will commence once the Contractor is telephone contacted by the Contracting Officer's Technical representative. The Contractor shall provide an employee to act as a single point of contact to initiate all emergency repair work. The single point of contact shall include a direct telephone number, cellular phone number and pager number. Once the Contractor arrives on site, he/she will troubleshoot the deficiency and determine the materials and/or parts required to place the equipment back in full operational service. Once the problem has been determined, the Contractor shall contact the COTR for approval to perform the requisite work. The contractor shall use every resource available to obtain required materials and/or parts necessary to accomplish the repairs and replace the equipment back in full operational service. Repair work will not be considered complete until all equipment is repaired and placed back in full operational service.

1.009. **REPAIR PARTS AND MAINTENANCE ITEMS:** Any equipment components and/or parts replaced under this contract shall be manufacturer's exact replacement components and/or parts. Any materials used to perform maintenance shall be manufacturer's approved maintenance materials and/or its equal. If the contractor decides to use other than the manufacturer's recommended materials to perform maintenance, the materials used will be pre-approved by the Contracting Officer's Technical Representative. All materials, parts and components shall be new.

1.010. PREVENTATIVE MAINTENANCE SCHEDULE: In addition to performing weekly observations, servicing, maintenance, inspections, tests, validations and recordings, the contractor shall perform all manufacturer's recommended preventative maintenance work. The following is the recommended preventative maintenance schedule:

AIR COMPRESSORS (2 EACH)

EVERY 4000 HRS.	CHANGE OIL AND OIL FILTERS
MONTHLY	SAMPLE AND TEST OIL FOR CONTAMINANTS
QUARTERLY	OPERATE SAFETY RELIEF VALVES
QUARTERLY	REMOVE, DISMANTLE AND CLEAN FLOAT VALVE ON CONDENSATE TRAPS
ANNUAL	REMOVE AND TEST SAFETY RELIEF VALVES
ANNUAL	TEST TEMPERATURE SHUTDOWN FUNCTIONS
ANNUAL	REMOVE, CLEAN AND INSPECT THE RESTRICTORS
ANNUAL	REPLACE AIR INTAKE FILTERS
ANNUAL	RE-GREASE MOTOR DRIVE BEARINGS
ANNUAL	REPLACE AIR/OIL SEPARATORS
ANNUAL	PERFORM OPERATIONAL TEST OF ELECTRICAL INTERLOCKINGS AND PRE-SHUTDOWN LIMITS

HEATLESS REGENERATIVE COMPRESSED AIR DRYER

ANNUAL	REMOVE A SAMPLE OF DRYING MEDIA AND FACTORY TEST FOR DRYING CAPABILITY
ANNUAL	REMOVE AND TEST SAFETY VALVES

COOLING TOWER

MONTHLY	INSPECT HEAT TRANSFER SECTION
MONTHLY	INSPECT SPRAY NOZZLES
SEMI ANNUAL	LUBRICATE FAN AND MOTOR BEARINGS
ANNUAL	REPLACE FAN BELT(S)

1.011. EQUIPMENT: The following is the type of equipment that shall be maintained under this contract.

AIR COMPRESSORS (2 EACH)

Atlas-Copco Model GA75W 50 HP 460 CFM RATED

COMPRESSED AIR DRYER (1 EACH)

Zeks Heatless Regenerative 1100 CFM @ 100 PSI RATED

COMPRESSED AIR FILTERS (2 EACH)

Zeks Coalescing Type 1100 CFM @ 100 PSI RATED

COOLING WATER PUMPS (2 EACH)

B&G Close-Coupled 2 HP 59 FT HEAD 40 GPM

COOLING TOWER

Baltimore A/C Model F1721 Serial Number 97100909

1.012. POINT OF CONTACT: For execution of this work, Contact Mr. Mark Shaner on (202) 404-4304. NOTE: The Contractor and any Subcontractor for this project shall comply with 29CFR 1926, Subpart "C" General Health and Safety Provisions, Subpart "X" Ladders and Subpart "E" Personal Protective and Life Saving Equipment.

**DIVISION II
CHECKPOINT CHECKLIST
ATLAS/COPCO AIR COMPRESSOR (2 EACH)
MODEL GA75W**

2.001. AIR INTAKE FILTER SERVICE INDICATOR: The Contractor shall inspect air intake filter indicator. If the red part of the indicator shows in the full out position, replace the air intake filter. Record the air intake filter indicator reading in the weekly log sheet. If additional work is required, record this information in the remarks section of the log sheet and perform the work.

2.002. OIL LEVEL: During loaded operation, the Contractor shall inspect the pointer of the oil level gauge. If it is in the green range, the oil level is good. If the pointer is not in the green range, add new oil to reach the proper operating level for the air compressor. Record the oil level reading in the weekly log sheet. If oil was added to the compressor, indicate the amount, date and enter this information to the remarks section of the log sheet.

2.003. OIL TEMPERATURE: The Contractor shall check the air compressor's oil temperature. The temperature of the air compressor's oil should read 180 degrees F. If oil temperature readings are higher than normal to warrant concern of the air compressor shutting down, immediately submit findings to the Contractor's Officer's Technical Representative. Perform the necessary work to correct the high oil outlet temperature. Record the oil temperature reading in the weekly log sheet. If additional work is required, record this information in the remarks section of the log sheet and perform the work.

2.004. CONDENSATE TRAP: The Contractor shall inspect and manually check the condensate trap located at the compressed air discharge-piping outlet. If the condensation trap appears to be "not operating", secure the compressor and manually operate the condensation trap in order to remove any possible condensation within the trap and piping system. If the condensation is not automatically being removed from the compressor during the operation cycle, the Contractor shall disassemble the trap, then clean and repair it as needed in order to restore the condensation trap back to its full automatic operation. Record the inspection in the weekly log sheet. If additional work is required, record this information in the remarks section of the log sheet and perform the work.

2.005. COOLING WATER: The Contractor shall check the control panel readout to obtain the discharge temperature of the air compressor cooling water. The closed loop air compressor cooling water system shall have an operating discharge temperature between 80/105 degrees F. NOTE: The temperature readings are subject to change based on seasonal ambient temperatures. If temperature readings are higher than normal to warrant concern of the air compressor shutting down, immediately submit findings to the Contracting Officer's Technical Representative.

The Contractor shall perform the necessary work to correct the high water outlet temperature; Record the cooling water temperature reading in the weekly log sheet; and if additional work is required enter this information in the remarks section of the log sheet and perform the work.

2.006. COMPRESSED AIR DISCHARGE PRESSURE: The Contractor shall check the control panel for the compressed air discharge pressure. Record the pressure reading in the weekly log sheet. The standard compressed air pressure should range between 95 PSI and 100 PSI.

2.007. SAFETY RELIEF VALVE: The Contractor shall inspect the pressure relief valve to insure that it is free of damage, accumulated dirt and oil which could impede its ability to operate. Pull the lift lever handle to engage the relief valve to insure that it operates. Annually, remove the pressure relief valve and have it retested and re-certified at the preset pressure relief setting and/or replace with a new, certified valve. If the relief valve has been retested, provide a certification tag affixed to the relief valve with the date tested and the name of company that performed the test. Record the relief valve inspection in the weekly log sheet. If the relief valve is replaced or retested, enter this information in the remarks section of the log sheet.

2.008. OIL SAMPLE ANALYSIS: The Contractor shall remove a sample (monthly) of the oil from the air compressor and forward to a manufacturer's approved testing facility to test oil for contaminants and metal fragmentation. Upon receipt of oil testing results, the Contractor shall record information in the remarks section of the log sheet. Immediately forward any test results that are discovered to be detrimental to the operation of the compressor to the Contracting Officer's Technical Representative. The test results must include recommended corrective action.

2.009. OIL AND FILTER CHANGE: The Contractor shall drain all oil within the compressor and replace the two existing oil filters; Refill the unit with manufacturer's approved new synthetic oil and restart air compressor. Check oil level indicator to insure that the correct amount of oil has been added to the air compressor; and record the oil and filter change in the remarks section of the log sheet. NOTE: THE USE OF ATLAS COPCO ROTO-INJECTFLUID IS ONLY PERMITTED WITH EACH OIL CHANGE AND WHEN ADDING ADDITIONAL OIL TO THE UNIT.

2.010. OIL/AIR SEPARATOR: The Contractor shall obtain a reading from the control panel to measure the pressure drop across the oil/air separator. If the reading exceeds the manufacturer's recommended acceptable pressure drop during loaded operation, the Contractor shall replace the oil/air separator and record the pressure drop reading in the weekly log sheet. If the oil/air separator requires replacement, the Contractor shall record this information in the remarks section of the log sheet and perform the work.

2.011. **ELECTRIC MOTOR:** The Contractor shall inspect the air compressor's drive motor for unusual noise, excessive heat and/or vibration. Inspect the drive coupling for unusual wear and deterioration. Inject the manufacturer's recommended grease into the bearings. Record the inspection and maintenance in the weekly log sheet. If additional repairs are required, record this information in the remarks section of the log sheet and perform the repairs.

2.012. **CONTROL PANEL:** The Contractor shall check the control panel for messages and readings. Test the control panel to verify that all function keys, scroll keys, tabulator keys, display panel, general alarm, light emitting diode (LED), voltage on LED, and automatic operation LED are operational and functioning. Test the automatic monitoring system to insure that continuous monitoring of the element oil temperature, oil filters, air/oil separator, air filter, water outlet temperature and compressed air outlet pressure are operational and are able to provide a warning if their programmed pre-shutdown limits are reached. Record the test and inspection in the weekly log sheet. If repairs are required, record the information in the remarks section of the log sheet and perform the repairs.

2.013. **OPERATIONAL INSPECTION:** The Contractor shall inspect the overall automatic operation of air compressor while in the loading mode for excessive noises, vibrations, and compressed air, water and oil leaks. If applicable, tighten any compressor components that maybe causing minor vibrations and/or noises. If applicable, tighten and/or adjust any piping and/or hose connections to eliminate minor operational leaks. Operational vibrations, noises and/or leaks that cannot be corrected with minor repairs and/or adjustments, secure the air compressor to perform repairs. Notify the Contracting Officer's Technical Representative of the repairs required along with the necessary shutdown time to accomplish this work. Record the inspection in the weekly log sheet. If additional repairs are required, record this information into the remarks section of the log sheet and perform the repairs.

2.014. **ELECTRICAL INSPECTION:** Inspect all wiring for fraying, corrosion, damaged areas and loose connections. Inspect wiring insulation for cracking, burnt areas and missing insulation. Inspect the line contactor, star contactor and delta contactors for pitting, arcing, and chattering. Record the inspection in the weekly log sheet. If additional repairs are required, record this information into the remarks section of the log sheet and perform the repairs.

2.015. **COMPRESSOR ROTATION:** The Contractor shall enter the total running hours of each air compressor in the weekly log sheet. If one compressor has more total operational time than the other, adjust each compressor's cut in pressure settings to allow the compressor with fewer operating hours to operate more frequently. This procedure is an attempt to balance the total operating hours between both compressors.

2.016. COMPRESSOR COOLING WATER SYSTEM: The Contractor shall inspect the on line cooling water pump for proper flow, pressure and operation. Inspect the pump for leaks, excessive noise and vibration. Inspect the pump motor for excessive vibration, noise and heat. Inspect all cooling piping, valves, and flexible connectors for proper support and leaks. Once every thirty days rotate the pump's operating time by switching the "stand by" pump to the "in service" mode and place the "in service" pump in the "stand by" mode. Record the inspection in the weekly log sheet. If additional repairs are required or the pumps require rotation, enter this information in the remarks section of the log sheet and perform the repairs.

**DIVISION III
CHECKPOINT CHECKLIST
AUTOMATIC HEATLESS REGENERATIVE COMPRESSED AIR DRYER
1100CFM @ 100 PSI RATED**

3.001. OPERATIONAL INSPECTION: The Contractor shall inspect and verify that the compressed air dryer is continuously and automatically drying compressed air. Inspect dryer and compressed air piping for leaks, loose components and vibration. Repair, adjust and tighten as required any leaks, vibrations and/or loose components. Inspect the dryer to insure that compressed air is flowing through one of the drying towers (bypass line should be closed). One tower should be in the "on line" cycle drying compressed air while the other tower is in the "regenerating" cycle and/or "tower pressurizing" cycle. Record the test and inspection in the weekly log sheet. If additional repairs are required, record the information in the remarks section of the log sheet and perform the repairs.

3.002. INSTRUMENT PANEL: The Contractor shall inspect the instrument panel to insure all panel lights are operating properly and illuminate accordingly. Instrument panel lights include left and right tower regenerating, left and right tower drying, tower pressurizing, power on and failure to switch alarm. Inspect the programmable digital display dew point indicator for proper operation and dew point setting. The dew point range can be adjusted down to a maximum range of -40 degrees F. Record the test and inspection in the weekly log sheet. If additional repairs are required, record the information into the remarks section of the log sheet and perform the repairs.

3.003. TOWER SAFETY RELIEF VALVES: The Contractor shall inspect safety relief valves to insure that it's free of damage, accumulated dirt and oil which could impede its ability to operate. Pull the lift lever handle to engage the relief valve to insure that it operates. Annually remove the pressure relief valve and have it retested and re-certified at the preset pressure relief setting and/or replace with new, certified valve. If the relief valve has been retested, provide a certification metal tag affixed to the relief valve with the date tested and the name of company who performed the test. Record the relief valve inspection in the weekly log sheet. If the relief valve is replaced or retested, enter this information in the remarks section of the log sheet.

3.004. TOWER PRESSURE GAUGES: The Contractor shall inspect the pressure gauge on each compressed air dryer tower for damage and proper operation. Replace damaged or non- operating pressure gauge. Record the inspection in the weekly log sheet. If the relief valve is replaced or retested, enter this information in the remarks section of the log sheet.

3.005. DRYER MUFFLER(S): The Contractor shall inspect dryer muffler(s) for deterioration, vibration and excessive noise. Replace muffler(s) if required. Record the inspection of the muffler(s) in the weekly log sheet. If the muffler(s) require

replacement, enter this information in the remarks section of the log sheet and perform the repairs.

3.006. ELECTRICAL INSPECTION: The Contractor shall inspect all compressed air dryer wiring for fraying, corrosion, damaged areas and loose connections. Inspect wiring insulation for cracking, burnt areas and missing insulation. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

3.007. COMPRESSED AIR PIPING SYSTEM: The Contractor shall inspect the compressed air distribution piping system for proper support, excessive vibration and leaks. The compressed air piping inspection includes piping from each air compressor, through the coalescing filters, heatless dryer, compressed air receiver and all remaining piping until it exits the basement area. Inspect all pressure gauges and thermometers associated with the compressed air piping for proper operation. Inspect pressure relief valve(s) to insure that it's free of damage, accumulated dirt and oil, which could impede its ability to operate. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

3.008. COMPRESSED AIR FILTERS: The Contractor shall inspect the pre and post compressed air coalescing filters for accumulated moisture in the vessel and manually blow down. Inspect the differential pressure gauge on each filter to determine if the filters require replacement. Replace filter cartridges if necessary. Check and adjust the automatic timers on the electric blow down valves to discharge a minimum of once per hour. Increase the frequency if climate and operating conditions warrant the need to do so. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

3.009. COMPRESSED AIR RECEIVER: The Contractor shall inspect the compressed air receiver compressed air leaks and manually blow down the receiver tank of possible accumulated moisture. Check and adjust the automatic timer on the electric blow down valve to discharge a minimum of once per hour. Increase the frequency if climate and operating conditions warrant the need to do so. Inspect pressure relief valves to insure that they are free of damage, accumulated dirt and oil, which could impede its ability to operate. Pull the lift lever handle to engage the relief valve to insure that it operates. Inspect the pressure gauge for proper operation and replace if necessary. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

**DIVISION IV
CHECKPOINT CHECKLIST
COOLING TOWER
BALTIMORE AIR COIL MODEL F1721-HI, SERIAL NUMBER 97100909**

4.001. TOWER OPERATION/CONDITION: The Contractor shall inspect the cooling tower's overall condition for corrosion, scale build up and general deterioration. Inspect the cooling tower's operation for leaks, excessive noise, vibration and proper operation. Adjust and tighten unit as necessary. Scrape, clean and flush any debris and/or scale from screens, fans, heat transfer sections and cold-water basin of cooling tower. Inspect spray nozzles for proper spray pattern and scale build up. Scrape and clean nozzles as necessary. Remove and clean sump strainer. Record the inspection/maintenance in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

4.002. BELT DRIVE SYSTEM: The Contractor shall inspect drive belt(s) (B-77) for wear, deterioration, and proper tension. Replace belt(s) as required. Check the locking collars on each fan bearing assembly for looseness and tighten as required. Check the fan for the correct rotation as indicated by the arrow located on the unit. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

4.003. MOTOR/FAN BEARINGS: The Contractor shall inspect the fan shaft and motor bearings for excessive, heat, noise and vibration. Adjust and tighten as necessary. Inject the required amount of manufacturer's approved lubricant into all fan shaft and motor bearings. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

4.004. AUTOMATIC FILL: The Contractor shall inspect the float assembly for accumulated debris, scale build up and proper operation. Clean and adjust as necessary. Float shall be adjusted to maintain water level approximately 1/2 inch below the overflow pipe. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

4.005. TOWER PIPING: The Contractor shall inspect the cooling tower piping for corrosion, vibration and leaks. Adjust and tighten as necessary. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

4.006. WATER TREATMENT: The Contractor shall inspect, test and adjust (if necessary) the automatic chemical feed system to meet manufacturer's requirements to control tower water scale, corrosion and suspended solids. Insure that the quantity of

chemicals are available to meet water treatment requirements. Record the inspection in the weekly log sheet.

If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs. The following are the manufacturer's water treatment requirements;

pH	7.0 to 9.01
Hardness as CaCO ₃	30 to 500 ppm
Alkalinity as CaCO ₃	500 ppm maximum
Total Dissolved Solids	1000 ppm maximum
Chlorides	125 ppm maximum
Sulfates	125 ppm maximum

4.007. BIOLOGICAL TREATMENT: The Contractor shall inspect, test and adjust (if necessary) the automatic chemical feed system to prevent tower water slime and algae growth. Insure that the quantity of chemicals is available to meet biological treatment requirements. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

4.008. WATER/BIOLOGICAL TREATMENT TRANSFER SYSTEM: The Contractor shall inspect the water and biological treatment pumps, tubing and piping for proper support, leaks, and proper operation. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

4.009. CONDUCTIVITY CONTROLLER: The Contractor shall check the conductivity reading to determine if the tower water is within the prescribed operating range. If the conductivity readings are not within the prescribed operating range, perform the necessary adjustments, maintenance, and/or repairs to return the readings to their prescribed range. Record the inspection and conductivity reading in the weekly log sheet. If additional repairs are required, enter this information into the remarks section of the log sheet and perform the repairs.

4.010. ELECTRICAL INSPECTION: The Contractor shall inspect all wiring for fraying, corrosion, damaged areas and loose connections. Inspect wiring insulation for cracking, burnt areas and missing insulation. Inspect the sump heater, thermostat and temperature setting for proper operation and freeze protection. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

4.011. TOWER PUMP: The Contractor shall inspect the tower pump for proper flow, pressure and operation. Inspect the pump for leaks, excessive noise and vibration. Inspect the pump motor for excessive vibration, noise and heat. Inspect all piping,

valves, and flexible connectors for proper support and leaks. Record the inspection in the weekly log sheet. If additional repairs are required, enter this information in the remarks section of the log sheet and perform the repairs.

PERSONNEL QUALIFICATIONS

AIR COMPRESSOR MECHANIC – It is desired that the contractor's air compressor mechanic have a minimum (5) five years of experience and be factory trained and certified in the area of operation, troubleshooting, maintenance and repair of 50 HP or larger commercial type water cooled and air cooled rotary and reciprocating type air compressors. The Contractor's air compressor mechanic should have the combined ability, experience and training to operate, inspect, test, evaluate, troubleshoot, maintain and repair 50 HP and larger rotary screw and reciprocating type air compressors. An Air Compressor Mechanic could be classified as any of the following three labor categories listed in the applicable wage determination (Electronics Technician-Maintenance III, Machinery Maintenance Mechanic, and Stationary Engineer) based on the variety of expertise required. His/Her ability, experience and training should include electrical, electronic and micro processing components as it pertains to the overall automatic operation of rotary screw and reciprocating type air compressors. It is further desired that the contractor's mechanic's experience and training include the ability, experience and training to operate, inspect, test, evaluate, troubleshoot, maintain and repair compressed air filters (coalescing), compressed air receivers, heatless regenerative dryers and centrifugal pumps as they pertain to cooling systems for air compressors.

APPRENTICE/HELPER – It is not required that this individual have a specific qualifications, but must be accompanied by the Air Compressor Mechanic at all times.

LOG SHEET, REMARKS SECTION

DATE	
DATE	
DATE	