

REQUEST FOR QUOTE

RFQ #11-26

New York State Division of Military and Naval Affairs

Mechanical Operations and Maintenance Contract

1. Purpose for RFQ: DMNA plans to contract for mechanical O&M/PM services at various DMNA locations for the State Fiscal Year 2012/2013. The intent of this contract is to furnish complete maintenance and preventive maintenance on all boilers and domestic hot water systems, and to provide for the testing and repair of all steam traps. This includes, but is not limited to, their burners and controls, control circuits, safety components, pumps and controller/starters (Mechanical system inventory is attached). We are requesting written proposals from companies who can service boilers in the summer, as pre-season maintenance, provide monthly PM services, and who can perform repair work as needed during the duration of this contract on a Time & Material Basis. All companies submitting proposals must furnish labor, material, tools, and equipment necessary to perform the work. All companies performing work are advised to comply with the latest revisions of the ASME Code and New York State Law, and with skilled boilermakers and welders who are trained technicians and certified to complete the task. All companies submitting proposals must be able to provide twenty-four (24) hour a day service, seven (7) days a week. Emergency numbers (including home phone numbers) are to be provided to the Hub Superintendent. The contractor must employ a minimum of two (2) full-time service technicians on staff – all having a minimum of three (3) years experience in the maintenance of boilers.

2. Duration of Contract: The term of this RFQ shall be from April 1, 2012 through March 31, 2013 (12 months). This contract may be renewed for years two (2) and three (3) with the same terms and conditions upon mutual written agreement between DMNA and the contractor.

3. DMNA Locations:

New York State Armory, 158 Willow Street, Lockport, New York 14094
New York State Armory, 1 Newton Street, Dunkirk, New York 14048
New York State Armory & FMS # 2, 34 Porter Street, Jamestown, New York 14701
CSMS-C, 1500 West Henrietta Road, Rochester, New York 14623

IT IS NOT A REQUIREMENT THAT ONE BIDDER MUST SERVICE ALL LOCATIONS LISTED IN THIS RFQ. FEEL FREE TO BID ON THE LOCATION YOU FEEL BEST SUITED TO HANDLE.

4. Occupational Safety and Health Act: While at the facility, all contractor personnel shall comply with applicable safety requirements of the Occupational Safety and Health Act.

5. Prevailing Wage: Work being bid is subject to the prevailing wage rate provisions of New York State Labor Law. This contract is subject to all applicable prevailing wage rates as published by the New York State Department of Labor. A prevailing wage schedule has been assigned to this project – PRC #2011009897. Any federal or State determination of a violation of any public works law or regulation, or labor law or regulation, or any OSHA violation deemed “serious or willful” may be grounds for a determination of vendor non-responsibility and rejection of bid.

6. Damages: The contractor shall be responsible for all damages to government facilities and equipment caused by his action.

7. Cancellation for Convenience: The State of New York Division of Military and Naval Affairs retains the right to cancel this contract in whole or in part without reason provided that the Contractor is given at least thirty (30) days notice of its intent to cancel. This provision should not be understood as waiving the State’s right to terminate the contract for cause or stop work immediately for unsatisfactory work, but is supplementary to that provision. Any such cancellation shall have no effect on existing Agency agreements, which are subject to the same 30 day discretionary cancellation or cancellation for cause by the respective user agency.

8. Personnel: The contractor will provide a contract manager who will be responsible for the performance of the work. The name of this person along with an alternate (who will act for the contract manager when that person is absent) will be designated in writing to the facility superintendent prior to contract start date. The contractor will also provide telephone numbers for those persons listed. The contract manager and the designated alternate must be able to read, write, speak and understand English.

9. Employee Identification: The contractor personnel and their vehicles must be recognizable while at the facility. This must be accomplished by wearing distinctive clothing bearing the name of the company or by wearing appropriate badges with the company and employee’s name. In the event that the contractor chooses to use badges, the contractor is responsible for acquiring an appropriate number of badges to meet their needs at his/her own expense.

- **ALL CONTRACTED PERSONNEL MUST HAVE VALID PHOTO IDENTIFICATION BEFORE ENTERING THE FACILITY.**
- **AT THE DISCRETION OF SECURITY PERSONNEL AND/OR THE MAINTENANCE SUPERVIOR, ANY VEHICLE MAY BE SUBJECT TO A SEARCH.**
- **FAILURE TO COMPLY WITH ANY OF THE ABOVE CONDITIONS COULD RESULT IN REFUSAL OF ENTRY INTO THE FACILITY.**

10. Cost of Preparation: DMNA will not pay any costs incurred in the bid/proposal preparation, printing or demonstration process. All costs shall be borne by the contractors.

11. Compliance with the Law: Contractors shall render the services to be provided pursuant to this agreement in compliance with all applicable Federal, State, and local laws, ordinances, rules, and regulations.

a. Appendix A: Standard Clauses for New York State Contracts, dated June 2011, is hereby expressly made a part of this RFQ as fully as if set forth at length herein. Appendix A is available on OGS website at http://www.ogs.state.ny.us/procurecounc/A_01.asp.

b. Appendix B: Office of General Services General Specifications, dated July 2006, is hereby expressly made a part of this RFQ as fully as if set forth at length herein and shall govern any situations not covered by this RFQ or Appendix A. Appendix A is available on OGS website at <http://www.ogs.state.ny.us/purchase/bidcreation.asp>.

12. Bid Submission: If you are responding to this RFQ, the attached bid form must be completed and received by this office no later than 11:00 AM on Tuesday, January 3, 2012. The bid forms may be submitted by U.S. mail, electronic mail (email) or facsimile (fax) to the contact listed below. Bidders assume all risks for timely, properly submitted deliveries. Bidders are strongly encouraged to arrange for delivery of bids to DMNA prior to the scheduled bid opening. Bidders assume all risks for timely, properly submitted deliveries. Bidders are strongly encouraged to arrange for delivery of bids to DMNA prior to the scheduled bid opening.

13. Clarification/Questions: All inquiries relating to this request for quote must be submitted in writing by mail, fax or email at least 5 working days prior to the bid opening. Requests submitted after that time WILL NOT be considered. All inquiries shall be directed to the facility representative indicated in this RFQ.

14. Designated Contacts:

a. Inquiries on Submittal of Quote

Nancy Bik, Purchasing Agent
NYS Division of Military and Naval Affairs
MNBF-PC
330 Old Niskayuna Road
Latham, New York 12110-3514
nancy.bik@us.army.mil
(518) 786-4964 voice/office
(518) 786-6098 fax

b. **Inquiries on Facility:** All inquiries shall be directed to the facility representative indicated below:

<p>New York State Armory Dunkirk 1 Newton Street Dunkirk, New York 14048 Ms. Dixie Bryant at (716) 888-5700 Email: dixie.bryant@us.army.mil</p>	<p>New York State Armory Jamestown 34 Porter Ave Jamestown, New York 14701-6222 Ms. Dixie Bryant at (716) 888-5700 Email: dixie.bryant@us.army.mil</p>
<p>New York State Armory Lockport 158 Willow Street Lockport, New York 14094 Ms. Dixie Bryant at (716) 888-5700 Email: dixie.bryant@us.army.mil</p>	<p>CSMS-C 1500 West Henrietta Road Rochester, New York 14623 Mr. Michael Donovan at (716) 888-5601 Email: michael.donovan6@us.army.mil</p>

15. Taxes: DMNA does not pay Federal excise and State sales taxes. Our tax exemption number is 14-740026K, Certificate of Exemption will be provided.

16. Pricing: The Contractor warrants that the pricing stated herein shall remain firm for the duration of the contract. Pricing shall include all charges that may be imposed in fulfilling the terms of the contract.

17. Conditions: Prior to bidding, the contractor shall visit the site to verify the work area and general conditions within the project scope. By submitting a bid, the contractor is verifying that he/she has visited the site and is aware of existing conditions.

18. Mandatory Site Visit: A mandatory site visit is required to ascertain the conditions. Bidder is required to inspect all premises and render a quote for each of the listed sites. Bidders may examine the facilities Monday through Friday between the hours of 9:00 am and 3:00 p.m. by calling the facility representatives listed below to schedule an appointment. Bids will not be accepted from prospective Contractors who have not conducted site visits prior to submitting their bids. Prospective bidders must complete a Site Visit Verification Form (attached).

19. Invoicing Requirements: This proposal is for a Time & Materials contract on an as-needed basis. DMNA requires the contractor to furnish the Armory Superintendent with a detailed invoice for labor utilized, including dates, number of man hours (rounded to nearest 1/4 hour), number of employee(s) used, and a detailed material list including quantities (contractor actual invoice costs), unit prices, total prices, and use of equipment. DMNA is a tax-exempt organization and the Federal ID number will be provided. Monthly PM services will be submitted on a monthly basis and Annual Services within five business days. DMNA will not pay for travel or any fuel surcharges. The Contractor will submit invoices to the facility manager. Payment for invoices submitted by the Contractor shall only be rendered electronically unless payment by paper check is expressly authorized by the Adjutant General of the Division of Military and Naval Affairs, in the Adjutant General's sole discretion, due to extenuating circumstances. Such electronic payment shall be made in accordance with ordinary State procedures and practices. The Contractor shall comply with the State

Comptroller's procedures to authorize electronic payments. Authorization forms are available at the State Comptroller's website at www.osc.state.ny.us/epay/index.htm by email at epunit@osc.state.ny.us or by telephone at (518) 474-4032. Contractor acknowledges that it will not receive payment on any invoices submitted under this Contract if it does not comply with the State Comptroller's electronic payment procedures, except where the Adjutant General has expressly authorized payment by paper check.

SAMPLE INVOICE

Company Letter

Type of Response: No Heat call

Call in by: Hub Superintendent, March 21, 2010, 7:30AM

Date and Time of Service Performed: March 22, 2010 - 8:00 AM to 3:15 PM

Description of Services Provided: Troubleshoot no heat call - found damper motor inoperable and sight glass clogged.

Labor Costs: 7 man-hours x \$32.00 per hour = \$224.00

Materials Utilized

1 - Damper Motor – Part # MP909A (\$60.03)	\$60.03
1 - Sight Gauge – Part # - JO642 (\$16.05)	\$16.05
2 - Gauge Washer - \$1.00	<u>\$2.00</u>
	\$78.08

Total \$ 302.08

** Attached are copies of material invoices

20. AC-3237 (Request for Taxpayer Identification Number & Certification) must be completed and submitted to NYS Office of the State Comptroller. The Taxpayer Identification Number must be indicated the Bid Response Form.

21. Scope of Work and Bid Specifications:

a. Service & Repair: Identification of HVAC equipment begins on page 26 of this RFQ.

b. Delivery of Services:

(1) Contractors responding to this bid must be able to provide service twenty four (24) hours a day, seven (7) days a week, three hundred sixty five (365) days a year, including holidays, for the duration of the agreement.

(2) DMNA expects the Contractor to give “priority” service to any call for mechanical repairs. Response time must be stated on the Bidder’s response form. Contractor must commit to Emergency Response times on the Bidder’s Proposal. A loss of heat is a matter of public safety; therefore reliable Emergency Response capabilities are critical.

c. Procedures for Normal Working Hours (Routine Service): Request for mechanical services shall originate from and shall be coordinated by the Armory Superintendent, during normal business hours, 7:00 AM to 4:30 PM, Monday through Friday. All routine mechanical work will require an estimate for any repair proposed. Estimates will be provided at no cost to DMNA.

d. Procedures for Normal Working Hours (Emergency Service): Request for mechanical services shall originate from and shall be coordinated by the Armory Superintendent, during normal business hours, 7:00 AM to 4:30 PM, Monday through Friday; the contractor shall have a service technician on site within two (2) hours of receiving a call for service.

e. Procedures for After Hours (Emergency Service): After hours emergency calls are defined as calls for service between the hours of 4:30 PM and 7:00 AM, Monday through Friday. Weekend emergency calls are defined as calls for service between the hours of 4:30 PM Friday until 7:00 AM Monday. The contractor shall have a service technician on site within two (2) hours of receiving a call for service

f. Licenses: Contractor MUST be licensed by the State of New York. All services are to be performed according to all Federal and State regulations, NYS Building Codes, and manufacturer specifications.

g. Emergency Telephone Contact: The contractor will be required to maintain a twenty-four (24) hour per day, seven (7) days a week emergency telephone contact.

h. Parts and Materials:

(1) All parts and materials selected by the contractor shall be approved by the Armory Superintendent prior to application.

(2) DMNA reserves the right to provide materials and/or parts.

i. Work Estimates (Time and Materials): Under contract for work that is outside the scope of the specified inspection / maintenance process, the contractor shall furnish the Hub Superintendent with a non-binding written estimate of the total cost to complete the work. The estimate must include the labor rate as specified in this RFQ (as stated on Bidder's Response Form), and the total cost of materials to include the cost for rentals (equipment). If the Hub Superintendent determines that the estimated price is not fair and reasonable, the Hub Superintendent has the right to ask the contractor to re-evaluate the estimate. If the revised estimate is determined to be not fair and reasonable, the Hub Superintendent reserves the right to obtain additional quotes from other vendors to justify the reasonableness of the estimate.

22. Contractor is to submit proposals to perform the following work:

a. Annual Boiler Service: The following services shall be performed as a minimum prior to the start of each heating season, including any services recommended by the equipment manufacturer. Minimum services should include but are not limited to:

- Open access doors and panels, remove inspection plates and inspect for any visible signs of leaking, cracking stress, fatigue or malfunctioning.
- Clean with a wire or fiber bristle brush the fireside of boiler, sections and tubes including the crown of boiler and inside of water legs or tube sheets and vacuum clean all areas. Remove burner to access combustion area and vacuum clean all areas. Replace electrodes and make necessary repairs to insulation (if so equipped).
- Open, clean and inspect boilers and water feed tanks, low water cut-off assemblies, gauge glasses and access ports or hand holes to visually inspect and flush boiler watersides. Replace gaskets or seals and gauge glass to ensure water tight seal and visibility of water level.
- Immediately following flushing the boilers waterside, boiler chemical should be added to ensure proper level is maintained.
- Inspect refractory, to ensure safe operation of heating component.
- Remove the smoke pipe as necessary to gain access to the boiler flue outlet. Vacuum clean breaching in immediate vicinity of boiler/furnace and inspect flue piping and chimney where accessible.
- Exercise relief valves, blow-off valves, feed valves and pump controllers for functionality. Lubricate all bearings and linkage.
- Test all controls or safety switches in control circuits to ensure operational performance. Check and calibrate heating unit for optimum air/fuel mixture, fine tune firing and adjust to maximum combustion efficiency levels. Perform a combustion efficiency test and provide Maintenance Supervisor with a legible written report within five business days.
- Services shall be performed during regular business hours 7:30 AM to 3:00 PM, Monday through Friday on normal workdays as a rule. In the event services can not be performed during normal duty hours, prior arrangements may be made through the Maintenance Supervisor for after-hours or weekend work. In no case will this be cause for additional charge or overtime/premium pay.

- Knowledgeable and experienced technicians employed by the contractor and guaranteed to be first class in quality and workmanship shall perform the annual cleaning and inspection work.
- The mechanical equipment room or areas shall be left in a broom-clean condition and free from all debris as a result of any work performed.
- A checklist indicating all the tasks performed and a report of any safety violations or recommendations shall be provided to the Maintenance Supervisor on each unit serviced.
- All materials or parts (gaskets, sealant, etc.) needing to be replaced or installed as a result of the cleaning and inspection shall be provided and installed by the contractor and removed from the facility.
- The contractor will remove soot that is related to boiler cleaning from the facility.
- Complete combustion efficiency testing shall be monitored and recorded for each unit and submitted to the facility maintenance representative. Combustion efficiency testing will be performed at the start of the heating season and at a minimum of two times during the heating season. If any change or repair to the boiler, furnace burner and/or heating unit, a combustion efficiency test will be performed.
- The contractor shall complete all items on the attached checklist. The technician shall submit a signed, dated checklist to the Maintenance Supervisor upon completion.

b. **Monthly Boiler Service:** The following services shall be performed on a monthly basis as a minimum during the heating season, including any services recommended by the equipment manufacturer. Monthly services should include but are not limited to:

- Check boiler log for proper blow down schedule and water treatment procedures to ensure boiler chemical levels are being maintained.
- Check flame safeguard control for pilot and main flame ignition.
- Check to see if any recent trouble codes are entered in the Honeywell 7800 series burner control.
- Check operation of blower motor and lubricate in accordance with manufacturer's recommendations.
- Blow down and check operation of low water cut-offs and pump controls and test function to ensure combustion is interrupted when applicable.
- Inspect feed tank and pumps along with condensate/vacuum heating pumps for proper operation.
- Check flue gas temperatures and composition.
- Inspect all linkages on combustion air dampers and fuel valves.
- Inspect system for water or steam leaks and leakage opportunities.
- Cycle burners and check ignition sequences and ensure all safety controls and devices are functioning properly
- Inspect boiler furnace gaskets and seals to ensure no combustion products are leaking from the combustion areas and correct as required for safe and efficient operation.

c. **Monthly Domestic Hot Water Tank Service**: The following services shall be performed on a monthly basis as a minimum during the year, including any services recommended by the equipment manufacturer. Monthly services should include but are not limited to:

- Monthly inspect tank(s), examine relief valve on the water heater and check tank for leaking.
- Monthly blown down tanks.

d. **Annual Domestic Hot Water Tank Service**: The following services shall be performed annually, including any services recommended by the equipment manufacturer. Minimum services should include but are not limited to:

- Annually conduct full inspection of tank(s).
- Drain hot water tank and remove any sediment from the bottom of the tank.

e. **Annual Steam Trap Survey**: A survey of the main steam distribution system will be conducted to identify faulty or needed steam traps. Ultrasonic detectors will be utilized to assess steam traps. Upon completion of survey, a written report will be provided to the Hub Superintendent. Upon review of the written report, faulty steam traps will be replaced based on approval of the Hub Superintendent.

f. **Trouble Shooting as needed**: In order to provide the service expected by DMNA, the contractor must maintain a large in-house inventory of commonly replaced boiler parts.

g. **Welding as needed**

h. **Fire Efficiency Testing and Adjustments**

i. **Incidental Plumbing as needed**

j. **Reports**: Written reports will be provided to the Hub Superintendent upon completion of each service (see attachments). The results shall be submitted to, and reviewed with, the Hub Superintendent.

Bidder's Response Forms

Facility	Page
NYSA Lockport	11
NYSA Dunkirk	13
NYSA Jamestown	15
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Facility Site Visit Verification Form	19
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Bidder's Response Form – RFQ 11-26
(Form must be completed and returned with Bid)

COSTS MUST REMAIN SAME FOR ENTIRE CONTRACT PERIOD. THE CONTRACT PERIOD IS FROM APRIL 1, 2012, TO MARCH 31, 2013. PROVIDE A COST BREAKDOWN FOR ONLY THOSE ITEMS YOUR COMPANY CAN PERFORM

Facility: NYSA Lockport

Annual Preventive Maintenance Checks and Services - Work must be completed on weekdays in early summer, during the hours of 7:30 AM to 3:30 PM, and completed by July to enable DOL inspection to occur late July.	
Cost to conduct Annual PM service (Boilers and Hot Water Tank) and provide written reports	\$
Monthly Preventive Maintenance Checks and Services	
	Monthly Svc Cost
Cost to conduct Monthly PM services (Boilers and Hot Water Tank) and provide written reports (Six Svcs - Oct, Nov, Dec, Jan, Feb, Mar)	\$
Trouble Shooting & Repair Costs (when called for no heat, leaks, plumbing, welding, replace faulty steam traps, etc.)	
Cost per hour for repairs/maintenance during Normal Business Hours (7:00 AM to 4:30 PM, Monday through Friday).	\$
Cost per hour for repairs/maintenance outside Normal Business Hours (including weekends and holidays).	\$
State response time for service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls outside Normal Business Hours (including weekends and holidays).	__ Hours
Materials for repair to be billed at net cost. Include a percentage allowed for overhead and profit. (Indicate this percentage in the space to the right) A copy of the itemized materials invoice from the supplier must be included with all billings.	_____ % mark-up
Annual Survey of Steam Traps – work must be completed in the middle of the heating season (i.e. January)	
Cost to survey steam traps and provide written report	\$

Bidder's Response Form – RFQ 11-26
(Continued – NYSA Lockport)

Fire Efficiency Testing and Adjustments – work must be completed in the Fall by one employee prior to the start of the heating season and as needed (i.e. September).	
Cost to conduct service and provide report for all burner units	\$

What testing equipment will you utilize to conduct testing: _____

Name of Contractor: _____

Federal ID No. _____, Taxpayer Identification Number: _____

Address: _____

City _____, State _____, Zip Code _____

Email Address: _____

Name: _____, Title: _____

Telephone number (____) ____-____, Fax: (____) ____-____, 24-Hour Number (____) ____-____

Small Business: Yes No Women Owned Business (MWE) Yes No

Minority Owned Business (MBE) Yes No Method of Payment Visa Voucher

The undersigned hereby agrees to perform the services in accordance with the enclosed Scope of Work at the prices indicated above. Award of contract will be made to lowest responsible bidder.

Authorized Signature: _____

Bidder's Response Form – RFQ 11-26
 (Form must be completed and returned with Bid)

COSTS MUST REMAIN SAME FOR ENTIRE CONTRACT PERIOD. THE CONTRACT PERIOD IS FROM APRIL 1, 2012, TO MARCH 31, 2013. PROVIDE A COST BREAKDOWN FOR ONLY THOSE ITEMS YOUR COMPANY CAN PERFORM

Facility: NYSA Dunkirk

Annual Preventive Maintenance Checks and Services - Work must be completed on weekdays in early summer, during the hours of 7:30 AM to 3:30 PM, and completed by July to enable DOL inspection to occur late July.	
Cost to conduct Annual PM service (Boilers and Hot Water Tank) and provide written reports	\$
Monthly Preventive Maintenance Checks and Services	
	Monthly Svc Cost
Cost to conduct Monthly PM services (Boilers and Hot Water Tank) and provide written reports (Six Svcs - Oct, Nov, Dec, Jan, Feb, Mar)	\$
Trouble Shooting & Repair Costs (when called for no heat, leaks, plumbing, welding, replace faulty steam traps, etc.)	
Cost per hour for repairs/maintenance during Normal Business Hours (7:00 AM to 4:30 PM, Monday through Friday).	\$
Cost per hour for repairs/maintenance outside Normal Business Hours (including weekends and holidays).	\$
State response time for service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls outside Normal Business Hours (including weekends and holidays).	__ Hours
Materials for repair to be billed at net cost. Include a percentage allowed for overhead and profit. (Indicate this percentage in the space to the right) A copy of the itemized materials invoice from the supplier must be included with all billings.	_____ % mark-up

Bidder's Response Form – RFQ 11-26
(Continued – NYSA Dunkirk)

Fire Efficiency Testing and Adjustments – work must be completed in the Fall by one employee prior to the start of the heating season and as needed (i.e. September).	
Cost to conduct service and provide report for all burner units	\$

What testing equipment will you utilize to conduct testing: _____

Name of Contractor: _____

Federal ID No. _____, Taxpayer Identification Number: _____

Address: _____

City _____, State _____, Zip Code _____

Email Address: _____

Name: _____, Title: _____

Telephone number (____) ____-____, Fax: (____) ____-____, 24-Hour Number (____) ____-____

Small Business: Yes No Women Owned Business (MWE) Yes No

Minority Owned Business (MBE) Yes No Method of Payment Visa Voucher

The undersigned hereby agrees to perform the services in accordance with the enclosed Scope of Work at the prices indicated above. Award of contract will be made to lowest responsible bidder.

Authorized Signature: _____

Bidder's Response Form – RFQ 11-26
(Form must be completed and returned with Bid)

COSTS MUST REMAIN SAME FOR ENTIRE CONTRACT PERIOD. THE CONTRACT PERIOD IS FROM APRIL 1, 2012, TO MARCH 31, 2013. PROVIDE A COST BREAKDOWN FOR ONLY THOSE ITEMS YOUR COMPANY CAN PERFORM

Facility: NYSA Jamestown

Annual Preventive Maintenance Checks and Services - Work must be completed on weekdays in early summer, during the hours of 7:30 AM to 3:30 PM, and completed by July to enable DOL inspection to occur late July.	
Cost to conduct Annual PM service (Boilers and Hot Water Tank) and provide written reports	\$
Monthly Preventive Maintenance Checks and Services	
Monthly Svc Cost	
Cost to conduct Monthly PM services (Boilers and Hot Water Tank) and provide written reports (Six Svcs - Oct, Nov, Dec, Jan, Feb, Mar)	\$
Trouble Shooting & Repair Costs (when called for no heat, leaks, plumbing, welding, replace faulty steam traps, etc.)	
Cost per hour for repairs/maintenance during Normal Business Hours (7:00 AM to 4:30 PM, Monday through Friday).	\$
Cost per hour for repairs/maintenance outside Normal Business Hours (including weekends and holidays).	\$
State response time for service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls outside Normal Business Hours (including weekends and holidays).	__ Hours
Materials for repair to be billed at net cost. Include a percentage allowed for overhead and profit. (Indicate this percentage in the space to the right) A copy of the itemized materials invoice from the supplier must be included with all billings.	_____ % mark-up
Annual Survey of Steam Traps – work must be completed in the middle of the heating season (i.e. January)	
Cost to survey steam traps and provide written report	\$

Bidder's Response Form – RFQ 11-26
(Continued – NYSA Jamestown)

Fire Efficiency Testing and Adjustments – work must be completed in the Fall by one employee prior to the start of the heating season and as needed (i.e. September).	
Cost to conduct service and provide report for all burner units	\$

What testing equipment will you utilize to conduct testing: _____

Name of Contractor: _____

Federal ID No. _____, Taxpayer Identification Number: _____

Address: _____

City _____, State _____, Zip Code _____

Email Address: _____

Name: _____, Title: _____

Telephone number (____) ____-____, Fax: (____) ____-____, 24-Hour Number (____) ____-____

Small Business: Yes No Women Owned Business (MWE) Yes No

Minority Owned Business (MBE) Yes No Method of Payment Visa Voucher

The undersigned hereby agrees to perform the services in accordance with the enclosed Scope of Work at the prices indicated above. Award of contract will be made to lowest responsible bidder.

Authorized Signature: _____

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(Form must be completed and returned with Bid)

COSTS MUST REMAIN SAME FOR ENTIRE CONTRACT PERIOD. THE CONTRACT PERIOD IS FROM APRIL 1, 2012, TO MARCH 31, 2013. PROVIDE A COST BREAKDOWN FOR ONLY THOSE ITEMS YOUR COMPANY CAN PERFORM

Facility: CSMS-C

Annual Preventive Maintenance Checks and Services - Work must be completed on weekdays in early summer, during the hours of 7:30 AM to 3:30 PM, and completed by July to enable DOL inspection to occur late July.	
Cost to conduct Annual PM service (Boilers and Hot Water Tank) and provide written reports	\$
Monthly Preventive Maintenance Checks and Services	
Monthly Svc Cost	
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Trouble Shooting & Repair Costs (when called for no heat, leaks, plumbing, welding, replace faulty steam traps, etc.)	
Cost per hour for repairs/maintenance during Normal Business Hours (7:00 AM to 4:30 PM, Monday through Friday).	\$
Cost per hour for repairs/maintenance outside Normal Business Hours (including weekends and holidays).	\$
State response time for service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls during Normal Working Hours.	__ Hours
State response time for Emergency service calls outside Normal Business Hours (including weekends and holidays).	__ Hours
Materials for repair to be billed at net cost. Include a percentage allowed for overhead and profit. (Indicate this percentage in the space to the right) A copy of the itemized materials invoice from the supplier must be included with all billings.	_____ % mark-up
Annual Survey of Steam Traps – work must be completed in the middle of the heating season (i.e. January)	
Cost to survey steam traps and provide written report	\$

Bidder's Response Form – RFQ 11-26
(Continued – CSMS-C)

Fire Efficiency Testing and Adjustments – work must be completed in the Fall by one employee prior to the start of the heating season and as needed (i.e. September).	
Cost to conduct service and provide report for all burner units	\$

What testing equipment will you utilize to conduct testing: _____

Name of Contractor: _____

Federal ID No. _____, Taxpayer Identification Number: _____

Address: _____

City _____, State _____, Zip Code _____

Email Address: _____

Name: _____, Title: _____

Telephone number (____) ____-____, Fax: (____) ____-____, 24-Hour Number (____) ____-____

Small Business: Yes No Women Owned Business (MWE) Yes No

Minority Owned Business (MBE) Yes No Method of Payment Visa Voucher

The undersigned hereby agrees to perform the services in accordance with the enclosed Scope of Work at the prices indicated above. Award of contract will be made to lowest responsible bidder.

Authorized Signature: _____

FACILITY SITE VISIT VERIFICATION FORM

Check all that apply

New York State Armory, 158 Willow Street, Lockport, New York 14094

New York State Armory, 1 Newton Street, Dunkirk, New York 14048

New York State Armory & FMS # 2, 34 Porter Street, Jamestown, New York 14701

CSMS-C, 1500 West Henrietta Road, Rochester, New York 14623

I met with the Facility Manager or designated representative to comply with the site visit verification requirement as stated in the RFQ for the locations checked above.

(Date)

(Company representative signature)

(Company Name)

FOR AGENCY USE ONLY

Verification of site visit confirmed by agency representative

Print Name: _____

Title: _____

Signature: _____

Date: _____

Maintenance Checklists

Preventive Maintenance Form
Location: _____
Annual Preventive Maintenance Checklist

LOCATION/BUILDING: _____, Equipment: _____, Date: _____

Name Technician: _____, Time In: _____

Check off all service performed below:

Annual Boiler Service: The following services shall be performed as a minimum prior to the start of each heating season and include any services recommended by the equipment manufacturer. Minimum services should include but are not limited to:

- ✓ Open access doors and panels, remove inspection plates and inspect for any visible signs of leaking, cracking stress, fatigue or malfunctioning.
- ✓ Clean with a wire or fiber bristle brush the fireside of boiler, furnace, unit heater and hot water heaters, sections and tubes including the crown of boiler and inside of water legs or tube sheets and vacuum clean all areas. Remove burner to access combustion area and vacuum clean all areas.
- ✓ Replace oil strainers, oil filters and air filters; replace all nozzles and electrodes and make necessary repairs to insulation (if so equipped).
- ✓ Open, clean and inspect boilers and water feed tanks, low water cut-off assemblies, gauge glasses and access ports or hand holes to visually inspect and flush boiler watersides. Replace gaskets or seals and gauge glass to ensure water tight seal and visibility of water level.
- ✓ Inspect refractory, point up and wash coat all refractory to ensure safe operation of heating component (if so equipped).
- ✓ Remove the smoke pipe as necessary to gain access to the boiler flue outlet. Vacuum clean breaching in immediate vicinity of boiler/furnace and inspect flue piping and chimney where accessible.
- ✓ Exercise relief valves, blow-off valves, feed valves and pump controllers for functionality. Lubricate all bearings and linkage.
- ✓ Test all controls or safety switches in control circuits to ensure operational performance. Check and calibrate heating unit for optimum air/fuel mixture, fine tune firing and adjust to maximum combustion efficiency levels. Perform a combustion efficiency test and provide Maintenance Supervisor with a legible written report within five business days.

Preventive Maintenance Form
Location: _____
Annual Preventive Maintenance Checklist

Annual Boiler Service (Continued)

- ✓ The mechanical equipment room or areas shall be left in a broom-clean condition and free from all debris as a result of any work performed.
- ✓ All materials or parts (gaskets, sealant, etc.) needing to be replaced or installed as a result of the cleaning and inspection shall be provided and installed by the contractor and removed from the facility.
- ✓ The contractor will remove soot that is related to boiler cleaning from the facility.
- ✓ Complete combustion efficiency testing shall be monitored and recorded for each unit and submitted to the facility maintenance representative. Combustion efficiency testing will be performed at the start of the heating season and at a minimum of two times during the heating season. If any change or repair to the boiler, furnace burner and/or heating unit, please perform combustion efficiency testing as needed.
- ✓ The following deficiencies or safety violations were noted:

- ✓ Recommendations for additional work:

Signature of Facility Representative

Date

Time

Signature of Technician

Date

Time

Preventive Maintenance Form
Location: _____
Monthly Preventive Maintenance Checklist

LOCATION/BUILDING: _____, Equipment: _____, Date: _____

Name Technician: _____, Time In: _____

Check off all service performed below:

Monthly Boiler Service: The following services shall be performed on a monthly basis as a minimum during the heating season, including any services recommended by the equipment manufacturer. Monthly services should include but are not limited to:

- ✓ Check boiler log for proper blow down schedule and water treatment procedures to ensure boiler chemical levels are being maintained.
- ✓ Check flame safeguard control for pilot and main flame ignition
- ✓ Check to see if any recent trouble codes are entered in the Honeywell 7800 series burner control.
- ✓ Check operation of blower motor and lubricate in accordance with manufacturer's recommendations.
- ✓ Blow down and check operation of low water cut-offs and pump controls and test function to ensure combustion is interrupted when applicable.
- ✓ Inspect feed tank and pumps along with condensate/vacuum heating pumps for proper operation.
- ✓ Check flue gas temperatures and composition.
- ✓ Inspect all linkages on combustion air dampers and fuel valves.
- ✓ Inspect system for water or steam leaks and leakage opportunities.
- ✓ Cycle burners and check ignition sequences and ensure all safety controls and devices are functioning properly
- ✓ Inspect boiler furnace gaskets and seals to ensure no combustion products are leaking from the combustion areas and correct as required for safe and efficient operation.

- ✓ The following deficiencies or safety violations were noted:

- ✓ Recommendations for additional work:

Signature of Facility Representative

Date

Time

Signature of Technician

Date

Time

Preventive Maintenance Form
Location: _____
Monthly Preventive Maintenance Checklist

LOCATION/BUILDING: _____, Equipment: _____, Date: _____

Name Technician: _____, Time In: _____

Check off all service performed below:

Monthly Domestic Hot Water Tank Service: The following services shall be performed on a monthly basis as a minimum during the year, including any services recommended by the equipment manufacturer. Monthly services should include but are not limited to:

- ✓ Monthly inspect tank(s), examine relief valve on the water heater and check tank for leaking.
- ✓ Monthly blown down tanks.
- ✓ The following deficiencies or safety violations were noted:

- ✓ Recommendations for additional work:

Signature of Facility Representative

Date

Time

Signature of Technician

Date

Time

Preventive Maintenance Form
Location: _____
Annual Preventive Maintenance Checklist

LOCATION/BUILDING: _____, Equipment: _____, Date: _____

Name Technician: _____, Time In: _____

Check off all service performed below:

Annual Domestic Hot Water Tank Service: The following services shall be performed annually, including any services recommended by the equipment manufacturer. Minimum services should include but are not limited to:

- ✓ Annually conduct full inspection of tank(s).
- ✓ Drain hot water tank and remove any sediment from the bottom of the tank.
- ✓ The following deficiencies or safety violations were noted:

- ✓ Recommendations for additional work:

Signature of Facility Representative

Date

Time

Signature of Technician

Date

Time

Identification of Equipment by Location

New York State Armory Lockport
 158 Willow Street
 Lockport, New York 14094
 Ms. Dixie Bryant at (716) 888-5700
 Email: dixie.bryant@us.army.mil

Steam System
 Steam Trap Inventory & Survey Form
 NYSA Lockport

Name Technician: _____, Time In: _____, Date: _____

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Boiler Room	ITT Hoffman #FT015H-4	3/4"	FT015H-4			
Boiler Room	ITT Hoffman #FT015H-4	3/4"	FT015H-4			
Boiler Room	ITT Hoffman #FT015H-4	3/4"	FT015H-4			
Boiler Room	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
Room # B-3 (Old # 27)	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
State Bay	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
State Workshop	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
Drill Hall Unit Heater	ITT Hoffman #FT015H-4	1 1/4"- 3/4"	F&T 44-515 A			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Drill Hall Under Windows	ITT Hoffman #FT015S-3	1"- 3/4"	F&T 44-415			
Drill Hall Under Windows	ITT Hoffman #FT015S-3	1"- 3/4"	F&T 44-415			
Drill Hall Unit Heater	ITT Hoffman #FT015H-4	1 1/4"- 3/4"	F&T 44-515 A			
Garage	Dunnham/Bush #1 Barnes & Jones Repair Kit # 40-515	1 1/4"	F&T 44-515A			
Garage	Dunnham/Bush #2 Barnes & Jones Repair Kit # 40-515	1 1/4"	F&T 44-515A			
Garage	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
Garage	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
Garage	Dunnham/Bush Barnes & Jones Repair Kit # 40-215	3/4"	F&T 44-215 A			
Garage	ITT Hoffman #FT015H-3	3/4"	F&T 44-215 A			
Garage	ITT Hoffman #FT015H-3	3/4"	F&T 44-215 A			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Pipe Tunnel	Warren/Webster	1 1/4"	F&T 02PD1-5			
Pipe Tunnel	Warren/Webster	1 1/4"	F&T 02PD1-5			
Pipe Tunnel	Warren/Webster	3/4"	F&T			
Pipe Tunnel	Warren/Webster	3/4"	F&T			
Front Hall	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Supt. Office Rm. # 108	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #2 115	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #3 114	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #2 115	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #3 114	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Room #4 112	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #4 112	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #4 113	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #4 113	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Kitchen	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #8	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #8 Arms Room 120	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #9 Supply 121	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
1st Floor Bathroom	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall #1	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall #2	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall#3	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall #4	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall #5	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Drill Hall #6	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
2nd Floor Hall	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Room #202 Locker Room	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #203 Bath Room	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #12 205	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084		Thermostatic Trap 17C			
Room #13 206	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #14 207	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #15 208	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #16 209	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Classroom Room #17 210	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			

Steam Trap Inventory & Survey Form - NYSA Lockport (Continued)

Location	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Classroom Room #17 210	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Women's Bathroom 212	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #19 215	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #19 215	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			
Room #19 215	Hoffman Specialty # 17C-A-3-25 Replace with Bear Trap Dura-stat # 600084	3/4"	Thermostatic Trap 17C			

Mechanical Equipment Inventory List NYS Lockport

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Boiler -1 - NY136692L	2046 MBH	88 Series 2 Model 788		Weil- McLain
Boiler Room	1	Burner for Boiler -1	2046 MBH Max 1023 MBH Min	Cyclonic JB-07-RM7800L- M.20-UL/CSD-1	U94679A-01	Webster Engineering & Manufacturing Co. Inc
Boiler Room	1	Burner Motor for Boiler -1	3/4 hp / 115 v / 9.2 A 3450 rpm / Fr 56C	Cat # VL425A	A0909/0173 1-60	Baldor
Boiler Room	1	Burner Control		RM7800L 1087		Honeywell
Boiler Room	1	Intergrated Burner Control Subpanel		Q7800H		Webster Engineering & Manufacturing Co. Inc
Boiler Room	1	Ignition Transformer	6,000 V Sec / 115 V pri	Cat# 1092	Type SG	Allanson
Boiler Room	1	Air Proving Switch		AFS-227-161		Cleveland Controls
Boiler Room	1	Pilot Gas Regulator		RV47L		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Cat# 804HB	A345678	Asco
Boiler Room	1	Main Burner Regulator		RV91		Maxitrol
Boiler Room	1	Main Burner Solenoid		JB8214080	T365844	Asco

Mechanical Equipment Inventory List - NYSA Lockport (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Main Burner Gas Valve	2 inch / 120 V 2 sec max closing time	Type V48A2243		Honeywell
Boiler Room	1	Burner Modutrol Motor IV	120 V / VA 12 Time (sec) 30-60 Stroke (90) Adj	OS# M9174C1025 w		Honeywell
Boiler Room	1	Operating Pressuretrol		L91B1035 / U		Honeywell
Boiler Room	1	High Limit Pressuretrol		L4079B1033		Honeywell
Boiler Room	1	Low Water Cut-Off		No.63 M		McDonnell Miller
Boiler Room	1	Low Water Cut-Off w/ Pump Control		No.150 S		McDonnell Miller
Boiler Room	1	Boiler -2 - NY136691L	2046 MBH	88 Series 2 Model 788		Weil- McLain
Boiler Room	1	Burner for Boiler -2	2046 MBH Max 1023 MBH Min	Cyclonic JB-07-RM7800L- M.20-UL/CSD-1	U94679A-02	Webster Engineering & Manufacturing Co. Inc
Boiler Room	1	Burner Motor for Boiler -2	3/4 hp / 115 v / 9.2 A 3450 rpm / Fr 56C	Cat # VL425A	A0909/0173 1-60	Baldor
Boiler Room	1	Burner Control		RM7800L 1087		Honeywell
Boiler Room	1	Intergrated Burner Control Subpanel		Q7800H		Webster Engineering & Manufacturing Co. Inc

Mechanical Equipment Inventory List - NYSA Lockport (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Ignition Transformer	6,000 V Sec / 115 V pri	Cat# 1092	Type SG	Allanson
Boiler Room	1	Air Proving Switch		AFS-227-161		Cleveland Controls
Boiler Room	1	Pilot Gas Regulator		RV47L		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Cat# 804HB	A345678	Asco
Boiler Room	1	Main Burner Regulator		RV91		Maxitrol
Boiler Room	1	Main Burner Solenoid		JB8214080	T365844	Asco
Boiler Room	1	Main Burner Gas Valve	2 inch / 120 V 2 sec max closing time	Type V48A2243		Honeywell
Boiler Room	1	Burner Modutrol Motor IV	120 V / VA 12 Time (sec) 30-60 Stroke (90) Adj	OS# M9174C1025 w		Honeywell
Boiler Room	1	Operating Pressuretrol		L91B1035 / U		Honeywell
Boiler Room	1	High Limit Pressuretrol		L4079B1033		Honeywell
Boiler Room	1	Low Water Cut-Off		No.63 M		McDonnell Miller

Mechanical Equipment Inventory List - NYSA Lockport (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Low Water Cut-Off w/ Pump Control		No.150 S		McDonnell Miller
Boiler Room	2	Safety Relief Valves	1 1/2" X 2 " 15 psi 1,900 lbs / hr	RVS13 13-214		Appollo
Boiler Room	1	Blowdown Seperator	MAWP 250 / 450 deg F	year built 2010	46042	Penn Seperator Corp.
Boiler Room	1	Blowdown Seperator	Height 20 / Inlet 1 1/2 / Drain 3 / Vent 4 / Plate .312		T1633	Cleaver Brooks
Boiler Room	1	Blowdown Seperator Water Valve		M90520 / RY 10636		Johnson Controls
Boiler Room	1	Condensate Tank Pump Control	Series CMHD.C	95-CMHD-2-0- C35	Q98G59- SA0737723- 0011	Domestic
Boiler Room	1	Condensate Tank Pump Control	Power V 115 Control V 115	DWGS 1DW509 / 2DW435		
Boiler Room	1	Condensate Pump P-1	1/3 hp / 3450 rpm / 115 V 1 ph / Fr 56J	JQH56C34D1200 H K	Cust# DM0 005 Perm. Lub. Bearings	Marathon / Jet Pump
Boiler Room	1	Condensate Pump P-2	1/3 hp / 3450 rpm / 115 V 1 ph / Fr 56J	JQH56C34D1200 H K	Cust# DM0 005 Perm. Lub. Bearings	Marathon / Jet Pump
Boiler Room	1	Condensate Tank Water Make Up Valve		Cat# SC8210G002	T540068	Asco
Boiler Room	1	Boiler Room Supply Fan F-1		SB5-1H20-4-X	12030619 1004	Greenheck

Mechanical Equipment Inventory List - NYSA Lockport (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Boiler Room Supply Fan F-2		SB5-1H20-4-X	12030619 1004	Greenheck
Boiler Room	1	Domestic Hot Water Tank	74.5 US Gal Cap	BT 80 230	MH00-0959480-230	AO Smith
Boiler Room	1	Domestic Hot Water Tank Gas Valve	Max Press 1/2 psi / Nat 4.0" Reg	190015-6 3773U 245		AO Smith
Drill Hall	3	Zone Valve Motor	12 va / 5.6 w	M9206-GGA-2S		Johnson Controls
Drill Hall Unit Heater	2	Air Pressure Differential Swich		P32AC-2		Johnson Controls
Drill Hall Unit Heater	2	Freezestat				Johnson Controls
Drill Hall Unit Heater Temperature Control Circuit	2	Control Transformer	120 v pri / 24 vac sec	Part# X050CHA		Veris Industries
Drill Hall Unit Heater Temperature Control Circuit	2	Relay		R1BU1C		Functional Device Inc.

New York State Armory Dunkirk
 1 Newton Street
 Dunkirk, New York 14048
 Ms. Dixie Bryant at (716) 888-5700
 Email: dixie.bryant@us.army.mil

Hot Water System
 Mechanical Equipment Inventory List
 NYSA Dunkirk

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Nat. Gas Boiler B-1 - NY067079L	1181MBH	88		Weil Mclain
	1	Operating Control w/ High & Low control		Type 11C30-3		White Rodgers
	1	High Limit Control w/ manual reset		L4006-1000		Honeywell
	1	Low Water Cut-off		902-M (Replace with PS851-M-120)		McDonnell Miller
	1	Low Water Cut-off		901 (Replace with RB-120 or RB-122)		McDonnell Miller
	1	Burner for B-1	650 MBH min. 1703 MBH max.	J50-15	109621292	Powerflame
	1	Air Proving Swich		AFS-A		Cleveland Controls
	1	Burner Control		RM7895 A 1014	ST 7800 A 1039-9636	Honeywell
	1	UV Sensor		C7027 A 1023		Honeywell
	1	Ignition Transformer	sec 6,000V	Type 612-6A056	Code J96M	Webster
	1	Gas Pilot Solenoid		Cat#S301AF02N3CF5		ITT
	1	Pilot Gas Regulator		RV20L		Maxitrol
	1	Burner Motor	1/3 hp / 115 V / 1 ph / 3450 rpm / fr 56C-65	3QJ56C34D11968P	Type SCS	Marathon

Mechanical Equipment Inventory List - NYSA Dunkirk (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
	1	Gas Modulating Motor	opening time 13 secs.	V4062A 1131		Honeywell
	1	Main Gas Valve		Cat# K3R782T		Ascol
	1	Main Gas Regulator		RV81		Maxitrol
	1	Safety Relief Valve	2,105,000 btu/hr	Model M	#740 Ser# 93500	Watts
	1	In-line Circulator Motor	1/2 hp / 115V / 1 ph / 1750 rpm / fr L48	A4C17DZ24A		LEESON
	1	In-line Circulator Bearing Assembly		1611C3N 4.75 1/97		TACO
Boiler Room	1	Nat. Gas Boiler B-2 - NY072884L	1181MBH	88		Weil Mclain
	1	Operating Control w/ High & Low control		Type 11C30-3		White Rodgers
	1	High Limit Control w/ manual reset		L4006-1000		Honeywell
	1	Low Water Cut-off		902-M (Replace with PS851-M-120)		McDonnell Miller
	1	Low Water Cut-off		901 (Replace with RB-120 or RB-122)		McDonnell Miller
	1	Burner for B-1	650 MBH min. 1703 MBH max.	J50-15	109621292	Powerflame
	1	Air Proving Swich		AFS-A		Cleveland Controls

Mechanical Equipment Inventory List - NYSA Dunkirk (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
	1	Burner Control		RM7895 A 1014	ST 7800 A 1039-9636	Honeywell
	1	UV Sensor		C7027 A 1023		Honeywell
	1	Ignition Transformer	sec 6,000V	Type 612-6A056	Code J96M	Webster
	1	Gas Pilot Solenoid		Cat#S301AF02N3CF5		ITT
	1	Pilot Gas Regulator		RV20L		Maxitrol
	1	Burner Motor	1/3 hp / 115 V / 1 ph / 3450 rpm / fr 56C-65	3QJ56C34D11968P	Type SCS	Marathon
	1	Gas Modulating Motor	opening time 13 secs.	V4062A 1131		Honeywell
	1	Main Gas Valve		Cat# K3R782T		Ascol
	1	Main Gas Regulator		RV81		Maxitrol
	1	Safety Relief Valve	Size 1 1/4" 2,346,000 btu/hr	10-606		CONBRACO
	1	In-line Circulator Motor	1/2 hp / 115V / 1 ph / 1750 rpm / fr L48	A4C17DZ24A		LEESON
	1	In-line Circulator Bearing Assembly		1611C3N 4.75 1/97		TACO

Mechanical Equipment Inventory List - NYSA Dunkirk (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
	1	Energy Management System		System 4	44004	Weil Mclain
	1	Domestic Hot Water Tank	75,100 btu / hr input Recovery 72.6 gal / hr	BT 100 112	Item# 9280917000	AO Smith
	1	Domestic Hot Water Tank Relief Valve	3/4" 105,000 btu / hr	NCLX5S Ser 7		Cash Acme
	2	Hot Water Heating Circulators	3 hp / 3 ph / 1750 rpm 165 gpm/ 42 ft	1510 21/2"A-7- BF	ID# 667003	Bell & Gossett
	2	Hot Water Heating Circulators Bearing Assembly		H 40		Bell & Gossett
	2	Hot Water Heating Circulator Motors	3 hp / 200v /3 ph / 1750 rpm 10.1 A 165 gpm/ 42 ft fr 182T		ID# F3458-00- 272	US Motors
	1	Combustion Air Damper Motor				Honeywell
	2	HW Expansion Tanks	180 gal	P518-A		TACO
	2	HW Expansion Tank 1" tank fitting		438		TACO
	2	HW Expansion Tank 1/2" drainer		440		TACO

New York State Armory Jamestown
 34 Porter Ave
 Jamestown, New York 14701-6222
 Ms. Dixie Bryant at (716) 888-5700
 Email: dixie.bryant@us.army.mil

Steam System
 Steam Trap Inventory & Survey Form
 NYSA Jamestown

Name Technician: _____, Time In: _____, Date: _____

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
B1 Confined Space	ITT Hoffman FT015H-3 (2 ea)	3/4"	F & T			
B1 Confined Space	Trane B-3 (1 ea) Replacement Capsule Tunstall #TCTR-2402	3/4"	Thermostatic			
B6 Storage Room	No Radiator in Room					
B7 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B8 Male Latrine	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B9 Storage Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B10 Storage Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B11 Storage Room	ITT Hoffman FT015H-3 (2 ea)	3/4"	F & T			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
B11 Storage Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
B14 Boiler Room	ITT Hoffman FT015H-3 (2 ea)	3/4"	F & T			
B14 Boiler Room	ITT Hoffman FT030H-4 (2 ea) Rear of Boilers	3/4"	F & T			
B16 Dining Area	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
B19 NCO Club	No Radiator in Room					
B20 Garage Tool Cage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage Tool Cage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage	ITT Hoffman FT015H-3	3/4"	F & T			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
B20 Garage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage	ITT Hoffman FT015H-3	3/4"	F & T			
B20 Garage	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B23 Training Room	Trane B-1 Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B23 Training Room	Trane B-1 Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
B23 Training Room	Trane B-1 Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
101 Vestibule Entrance	Trane B-1 Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
102 Foyer North	Trane B-1 Replacement Capsule Tunstall #TCTR-2402	3/4"	Thermostatic			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
102 Foyer South	Trane B-1 Replacement Capsule Tunstall #TCTR- 2402	3/4"	Thermostatic			
103 Office	Trane B-1 Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
105 Recruiting Office	Trane B-1 Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
106 Stairs / North Tower	Trane B-1 Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
107 Vestibule / North Tower	Trane B-1 Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
110 Male Latrine	Trane B-1 (2 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
111 Locker Room	Trane B-1 (5 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
112 Locker Room	Trane B-1 (3 ea)	1/2"	Thermostatic			
114 Supply Room	No Radiator in Room					

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
116 Drill Hall	ITT Hoffman FT015H (Uses Same Cover as 3/4")	1"	F & T			
116 Drill Hall	ITT Hoffman FT015H (Uses Same Cover as 3/4")	1"	F & T			
116 Drill Hall	ITT Hoffman FT015H (Uses Same Cover as 3/4")	1"	F & T			
116 Drill Hall	ITT Hoffman FT015H (Uses Same Cover as 3/4")	1"	F & T			
116 Dill Hall	ITT Hoffman FT015H (Uses Same Cover as 3/4")	1"	F & T			
116 Drill Hall	Trane B-1 (8 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
116 Drill Hall	Trane B-1 (16 ea) Replacement Capsule Tunstall #TCTR- 2402	3/4"	Thermostatic			
117 Vault	No Radiator in Room					
119 Female Latrine	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
121 Historical Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
122 Stairs / South Tower	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1"				
123 Vestibule / South Tower	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
124 Hallway	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
125 Admin Office	Trane B-1 (2 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
126 Admin Private Latrine	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
127 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
128 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
128 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
128 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
129 Private Latrine	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
130 Private Latrine	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
132 Supt. Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
133 Hallway	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
202 Balcony	Trane B-1 (8 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
203 Hallway / North	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			
203 Hallway / South	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR- 2402	1/2"	Thermostatic			

Steam Trap Inventory & Survey Form - NYSA Jamestown (Continued)

Room Number	Manufacturer	Size	Model (F & T or Thermostatic Unit)	GOOD	WEAK	BAD
204 Latrine	No Radiator in Room					
205 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
206 Training Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
206 Training Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
206 Training Room	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
207 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			
207 Office	Trane B-1 (1 ea) Replacement Capsule Tunstall #TCTR-2402	1/2"	Thermostatic			

Mechanical Equipment Inventory List

NYSA Jamestown

Room	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Gas Boiler B-1 - NY130558L	1077 MBH / Gas 7.5 GPH / Light Oil	LC-06-WS	612523-200812	Peerless Boilers
Boiler Room	1	B-1 Burner		C1-G-12	10932613	PowerFlame
Boiler Room	1	B-1 Burner Motor	1/2 HP / 1 PH /115 V 3450 RPM / FR 56C	FQM 56C34D2098F P		
Boiler Room	1	B-1 Burner Modulating Motor		M9174C1025	ID # 5122046	Honeywell
Boiler Room	1	B-1 Burner Ignition Transformer	6,000 V	Cat# 1092	Type PF	Allanson
Boiler Room	1	Main Gas Regulator		RV81		Maxitrol
Boiler Room	2	Main Gas Valves		V4055A 1098 2		Honeywell
Boiler Room	2	Gas Pressure Switch				
Boiler Room	1	Pilot Gas Regulator		RV20VL		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Cat# A89681		Asco
Boiler Room	1	Burner Control		RM7840 L 1075		Honeywell
Boiler Room	1	Burner Control UV Sensor		C 7927A		Honeywell
Boiler Room	1	Pressuretrol		L404F 1060		Honeywell
Boiler Room	1	Pressuretrol		L4079B 1033		Honeywell

Mechanical Equipment Inventory List - NYSA Jamestown (Continued)

Room	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Low Water Cut-Off		550P		McDonnell Miller
Boiler Room	1	Safety Relief Valve	1200 LB / HR	13-213		Conbraco
Boiler Room	1	Gas Boiler B-2 - NY130559C	1077 MBH / Gas 7.5 GPH / Light Oil	LC-06-WS	612522-200812	Peerless Boilers
Boiler Room	1	B-2 Burner		C1-G-12	10932613	PowerFlame
Boiler Room	1	B-2 Burner Motor	1/2 HP / 1 PH /115 V 3450 RPM / FR 56C	FQM 56C34D2098F P		
Boiler Room	1	B-2 Burner Modulating Motor		M9174C1025	ID # 5122046	Honeywell
Boiler Room	1	B-2 Burner Ignition Transformer	6,000 V	Cat# 1092	Type PF	Allanson
Boiler Room	1	Main Gas Regulator		RV81		Maxitrol
Boiler Room	2	Main Gas Valves		V4055A 1098 2		Honeywell
Boiler Room	2	Gas Pressure Switch				
Boiler Room	1	Pilot Gas Regulator		RV20VL		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Cat# A89681		Asco
Boiler Room	1	Burner Control		RM7840 L 1075		Honeywell
Boiler Room	1	Burner Control UV Sensor		C 7927A		Honeywell

Mechanical Equipment Inventory List - NYSA Jamestown (Continued)

Room	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Pressuretrol		L404F 1060		Honeywell
Boiler Room	1	Pressuretrol		L4079B 1033		Honeywell
Boiler Room	1	Low Water Cut-Off		550P		McDonnell Miller
Boiler Room	1	Safety Relief Valve	1200 LB / HR	13-213		Conbraco
Boiler Room	1	Condensate Cast Iron Receiver	Series CBM.B	75 CBM15-25	QE6484-SA9019668-001 1	ITT / Domestic
Boiler Room	2	Condensate Pumps				
Boiler Room	1	Combustion Air Supply System (Modulating Pressure Control)		EBC 30		Exhausto Venting Design Solutions
FMS # 2	1	Hot Water Tank	40 Gallons	GE-GG40S6AC		
FMS # 2	4	Gas Fired Unit Heaters		F165-S-E		Reznor

CSMS-C
 1500 West Henrietta Road
 Rochester, New York 14623
 Mr. Michael Donovan at (716) 888-5601
 Email: michael.donovan6@us.army.mil

Steam System
 Steam Trap Inventory & Survey Form
 CSMS-C

Name Technician: _____, Time In: _____, Date: _____

Room Number	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Automotive Line #1	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #2	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #3	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #4	Warren Webster 1" 274-TD-1-1	1"	F&T			
Automotive Line #5	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #6	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #7	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #8	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #9	Warren Webster 1" 274-TD-1-1	1"	F&T			
Body Shop #10	Barnes & Jones 1-1/4" FT2015-5	1-1/4"	F&T			
Body Shop #11	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Paint Shop #12	Barnes & Jones 1-1/4" FT2015-5	1-1/4"	F&T			
Paint Shop #13	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Automotive Line AHU	1-1/2" Spirax / Sarco 57059	1-1/2"	F&T			

Steam Trap Inventory & Survey Form - CSMS-C (Continued)

Room Number	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Automotive Line #14	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #15	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #16	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #17	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #18	Barnes & Jones 1" FT2015-4	1"	F&T			
Automotive Line #19	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Automotive Line #20	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Electronics	Barnes & Jones 1" FT2015-4	1"	F&T			
Warehouse #1	Barnes & Jones 1-1/4" FT2015-5	1-1/4"	F&T			
Warehouse #2	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #3	Barnes & Jones 1-1/4" FT2015-5	1-1/4"	F&T			
Warehouse #4	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #4a	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #5	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #6	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			

Steam Trap Inventory & Survey Form - CSMS-C (Continued)

Room Number	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Warehouse #7	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #8	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #9	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #10	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #11	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #12	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #13	Warren Webster 1" 274-TD-1-1	1"	F&T			
Warehouse #14	Warren Webster 3/4" 273-TD-1-1	3/4"	F&T			
Warehouse #15	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #16	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #17	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #18	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #19	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #20	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #21	Barnes & Jones 1" FT2015-4	1"	F&T			

Steam Trap Inventory & Survey Form - CSMS-C (Continued)

Room Number	Manufacturer	Size	Model (F & T or Cage Unit)	GOOD	WEAK	BAD
Warehouse #22	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #23	Warren Webster 1" 274-TD-1-1	1"	F&T			
Warehouse #24	Barnes & Jones 3/4" FT2015-3	3/4"	F&T			
Warehouse #25	Barnes & Jones 1" FT2015-4	1"	F&T			
Boiler Room Center	Spirax Sarco K06 50926	3/4"	F&T			
Side of Boiler# 1	Spirax Sarco K06 50926	3/4"	F&T			
Side of Boiler# 2	Spirax Sarco K06 50926	3/4"	F&T			
HW Loop HX Coil Boiler Room	Spirax Sarco FT-15	1-1/2"	F&T			

Mechanical Equipment Inventory List CSMS-C

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Cast Iron Sectional Boiler B-1 - NY095813L	2353 / MBH	28 A Series 28A-SW 12	28A-12-060638	Smith
Boiler Room	1	Low Water Cutoff		150 S		McDonnell Miller
Boiler Room	1	Low Water Cutoff		PS-801M-U-120		McDonnell Miller
Boiler Room	1	Operating Control		L91B1035 / U		Honeywell
Boiler Room	1	High Limit Control W / Reset		L4079B1033		Honeywell
Boiler Room	1	Cut-in Cut-out Pressuretrol				Honeywell
Boiler Room	1	Safety Relief Valve	3150 lbs./ hr	2 X 2 15 psi		Conbraco
Boiler Room	1	Gas & Lt. Oil Burner	Gas 900/3844/MBH Oil 7.4 GPH/ 26.5 GPH	C3-GO-25		PowerFlame
Boiler Room	1	Burner Control				Honeywell
Boiler Room	1	Burner Motor Contactor		10 E		Siemens
Boiler Room	1	Burner Motor	1 1/2 hp /208v / 3 ph fr 56C-65	DVK56T34D531 4B P		Marathon
Boiler Room	1	Burner Damper Motor	Stroke Adj. (90) 30-60 sec	OS# M1974C1025 (2)		Honeywell
Boiler Room	2	Oil Burner Solenoids		Cat# SV401A02V9BF 7		Asco
Boiler Room	1	Oil Pressure Switch		Cat# B24VX66		Ashcroft

Mechanical Equipment Inventory List - CSMS-C (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Oil Pump				Webster
Boiler Room	1	Oil Pump Motor	1/2 hp / 208 v / 3 ph Fr 56C-65	DVL56T34D5331 1B P		Marathon
Boiler Room	1	Oil Fiter	300 microns	70101		Combu
Boiler Room	1	Ignition Transformer	6,000 V	Cat# 1092	type PF	Allanson
Boiler Room	1	Air Proving Switch		AFS-A		Cleveland Controls
Boiler Room	1	Oil Metering Valve		472 P		Hauck
Boiler Room	1	Gas Regulator		RV91		Maxitrol
Boiler Room	1	Gas Pressure Switch		C6097A		Honeywell
Boiler Room	1	Main Gas Valve		S2615802N3KK4		Asco
Boiler Room	1	Main Gas Valve		V4055A 1098		Honeywell
Boiler Room	1	UV Sensor		C702A 1023 (2)		Honeywell
Boiler Room	1	Pilot Gas Regulator		325-3		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Part# CSRPF003	Cat# U28452118	Alcon
Boiler Room	1	Cast Iron Sectional Boiler B-2 - NY056428L	2353 / MBH	28 A Series 28A- S/W 12	28A-12- 060638	Smith

Mechanical Equipment Inventory List - CSMS-C (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Low Water Cutoff		150 S		McDonnell Miller
Boiler Room	1	Low Water Cutoff		PS-801M-U-120		McDonnell Miller
Boiler Room	1	Operating Control		L91B1035 / U		Honeywell
Boiler Room	1	High Limit Control W / Reset		L4079B1033		Honeywell
Boiler Room	1	Cut-in Cut-out Pressuretrol				Honeywell
Boiler Room	1	Safety Relief Valve	3150 lbs./ hr	2 X 2 15 psi		Conbraco
Boiler Room	1	Gas & Lt. Oil Burner	Gas 900/3844/MBH Oil 7.4 GPH/ 26.5 GPH	C3-GO-25		PowerFlame
Boiler Room	1	Burner Control				Honeywell
Boiler Room	1	Burner Motor Contactor		10 E		Siemens
Boiler Room	1	Burner Motor	1 1/2 hp /208v / 3 ph fr 56C-65	DVK56T34D531 4B P		Marathon
Boiler Room	1	Burner Damper Motor	Stroke Adj. (90) 30-60 sec	OS# M1974C1025 (2)		Honeywell
Boiler Room	2	Oil Burner Solenoids		Cat# SV401A02V9BF 7		Asco
Boiler Room	1	Oil Pressure Switch		Cat# B24VX66		Ashcroft
Boiler Room	1	Oil Pump				Webster
Boiler Room	1	Oil Pump Motor	1/2 hp / 208 v / 3 ph Fr 56C-65	DVL56T34D5331 1B P		Marathon

Mechanical Equipment Inventory List - CSMS-C (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Oil Fiter	300 microns	70101		Combu
Boiler Room	1	Ignition Transformer	6,000 V	Cat# 1092	type PF	Allanson
Boiler Room	1	Air Proving Switch		AFS-A		Cleveland Controls
Boiler Room	1	Oil Metering Valve		472 P		Hauck
Boiler Room	1	Gas Regulator		RV91		Maxitrol
Boiler Room	1	Gas Pressure Switch		C6097A		Honeywell
Boiler Room	1	Main Gas Valve		S2615802N3KK4		Asco
Boiler Room	1	Main Gas Valve		V4055A 1098		Honeywell
Boiler Room	1	UV Sensor		C702A 1023 (2)		Honeywell
Boiler Room	1	Pilot Gas Regulator		325-3		Maxitrol
Boiler Room	1	Pilot Gas Solenoid		Part# CSRPF003	Cat# U28452118	Alcon
Boiler Room	2	Combustion Air Damper Motors		AF-120-S US		Belimo
Boiler Room	1	Condensate Receiver Unit CRU-2			44294	Shipco
Boiler Room	1	CRU-2 Motor	1/3 hp / 115v / 1 ph /	5KC39EN4077X		General Electric
Boiler Room	1	Boiler Feed Tank	Capacity 310 Gals.			

Mechanical Equipment Inventory List - CSMS-C (Continued)

Location	Quantity	Component	Rating/BTU	Model#	Serial#	Manufacturer
Boiler Room	1	Boiler Feed Pumps 1,2,&3 Control Panel	Control Voltage 115 v		44293	Shipco
Boiler Room	3	Boiler Feed Pumps BFP-1 , 2 , & 3	1 hp / 208v / 3 ph Fr 56J	5K38PN48	Cat# K221	General Electric
Boiler Room	1	Hot Water Loop Pump	imp size 8 & 9/16	3642	Index# 1BF10312	Gould
Boiler Room	1	Hot Water Loop Pump Motor	1/3 hp / 115v / 1 ph Fr 56J	C48H2DB11C11	Type UC Code M	AO Smith
Boiler Room	1	Boiler Chemical By-pass Feeder				Vector
Boiler Room	1	Chemical Treatment Timer		DWT-1	LL-940	Advantage Controls
Boiler Room	1	Chemical Treatment Pump		BX 130X 1-PVC1	LL-939 P	Advantage Controls
Boiler Room	1	Domestic Hot Water Tank	Capacity 99 Gals. Input 200,000 Recovery 193.93 gal/ hr	BTN 200A 108	Item# 9280830002	AO Smith / Masterfit