



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER:
DEFK8178

PAGE:
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**JOHN ABBOTT
 304-558-2544**

RFQ COPY

TYPE NAME/ADDRESS HERE
*Casto Technical Services
 540 Leon Sullivan Way
 Charleston, WV
 25322*

SHIP TO

**DIV ENGINEERING & FACILITIES
 NATIONAL GUARD ARMORY
 2110 SOUTH ROUTE 19
 GLEN JEAN WV
 25846 304-201-3249**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/07/2008				

BID OPENING DATE: **02/28/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		936-10		<i>46,600/yr</i>
HVAC MAINTENANCE AND SUPPORT SERVICES OPEN-END CONTRACT TO PROVIDE HVAC MAINTENANCE AND SUPPORT SERVICES TO THE NATIONAL GUARD ARMORY, GLEN JEAN, WV PER THE SPECIFICATIONS. MANDATORY ON-SITE PRE-BID: 2/21/2008; 10:30 AM NATIONAL GUARD ARMORY 2110 SOUTH ROUTE 19 GLEN JEAN, WV 25846 EXHIBIT 1 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL						<i>See page 24 - pricing</i>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Fred W. Maier</i>	TELEPHONE <i>304-346-0549</i>	DATE <i>2/25/08</i>
TITLE <i>Regional Account Mgr</i>	FEIN <i>550539186</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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NATIONAL GUARD ARMORY
2110 SOUTH ROUTE 19

GLEN JEAN WV
25846 **304-201-3249**

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<p>WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) SUCCESSIVE ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COVERAGE OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF THE CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>WORKER'S COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKER'S COMPENSATION IF SUCCESSFUL.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p>						

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<p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR FAYETTE COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 </p> <p>NO. 2 </p> <p>NO. 3 </p> <p>NO. 4 </p> <p>NO. 5 </p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE</p>						

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<p>SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>.....<i>Paul W. Maier</i>.....SIGNATURE <i>Costo Technical Services</i>.....COMPANY <i>2/25/08</i>.....DATE</p> <p>REV. 11/96</p> <p>CONTRACTORS LICENSE</p> <p>WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.</p> <p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE: CONTRACTORS NAME: ...<i>Costo Technical Services</i>..... CONTRACTORS LICENSE NO.: <i>WV 091.241</i>.....</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p>						

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<p>APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: JOHN ABBOTT-----</p> <p>REQ. NO.: DEFK8178-----</p>						

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING DATE:				2/28/2008	-----	
BID OPENING TIME:				1:30 PM	-----	
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
-----				304-346	8.920	-----
PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						
-----				Fred w. Maier	-----	
***** THIS IS THE END OF RFQ DEFK8178 ***** TOTAL: _____						

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SPECIFICATIONS

Testing, Adjusting, Preventative Maintenance, Emergency Service and Repairs of Heating Ventilation and Air Conditioning (HVAC) systems, and for the HVAC Control System.

1. The purpose of this contract is to provide the contracted assurance that the HVAC equipment and HVAC control system operates within the prescribed guidelines. Vendor shall be fully responsible for the HVAC system's operation, reliability and performance of environmental comfort, risk management and energy efficiency to Owner.
2. Vendor shall provide testing and servicing HVAC to include inspecting equipment and installation for conformance with design, adjusting system to provide design performance, and providing support services for HVAC Control system. Work shall include recording and documenting results to Owner.
3. HVAC Control System. Provide contracted assurance that the System operates within the performance guidelines. Shall be responsible for the operating, reliability and performance.
4. Vendor shall provide scheduled preventative maintenance, emergency service and repairs to include furnishing all labor, materials and equipment to perform the work.
5. Renewal. Shall be in accordance with the Terms and Conditions of this contract. Shall be limited to three successive one year periods. Vendor is responsible to notify the Owner of its intent to renew within 60 days of termination of the contract with a letter of intent.
6. Vendor Qualifications. Proven successful testing, adjusting, commissioning, preventative maintenance, emergency service and repair experience of complex Commercial HVAC equipment/systems. Vendor shall be a factory authorized service agency of commercial HVAC equipment including McQuay, Carrier, York, Trane

or approved equal, and shall have factory trained/certified technicians providing services to fore mentioned equipment.

7. Pre-Bid Conference. A mandatory on site Pre-Bid Conference shall be held on: February 21, 2008; 10:30 AM. Failure to attend will result in bid disqualification.

8. Invoicing. Preventive Maintenance shall be billed quarterly in arrears. Trouble calls, service orders, job orders shall be billed at time of completion.

9. Vendors:

A. Contact Telephone

Number 304-346-0549

B. Emergency Contact Telephone

Number 304-346-0549

10. SCOPE OF WORK REQUIREMENTS

A. Provide initial inspection of equipment within 45 days of effective date of this contract (Notice to Proceed). Note: the Vendor shall notify the resident facilities manager / building maintenance mechanic a minimum of 15 days prior to the scheduled date of the initial inspection. Initial inspection shall include confirming that all scheduled equipment operates in conformance with the design requirements. It is not the intent of this Contract to provide air or water balancing services. Rather, it is the intent of this contract to provide the Owner with assurance that the HVAC equipment has been installed in the prescribed manner and is continuously operating within the required performance guidelines. It is required that systems that are determined to be deficient or unable to perform to specification (ie., sound requirements, cooling/heating capacity, insufficient airflow,

waterflow, static pressure, etc.) be brought to the immediate attention of the resident Facilities manager / building maintenance mechanic, and in written form, to the Owner to allow for design evaluation/mitigation of the conditions leading to the situation.

B. The initial inspection shall include providing a documented report of test results for all scheduled HVAC equipment including a minimum of the following:

i. Air Handling Systems / Rooftop Unit
 Test Report
 Unit Identification
 Location / Area Served
 Make and Type
 Model # / Serial # and Unit Size
 Unit Arrangement and Class
 Discharge Arrangement
 Fan and Motor Sheave Make, Size
 (Pitch Diameter) and Bore
 fan and Motor Sheave Center to
 Center Dimensions and Adjustment
 Number of Belts, Make and Size
 Number of Filters, Type and Size
 Motor Data (Make, Frame Size and
 Type) Motor Horsepower and RPM
 Motor Voltage, Phase and Hertz
 Motor Full Load Amperage and Service
 Factor Measured Running Load Amps
 of Motor Operating Airflow Rate (CFM)
 System Static Pressure (in.wg.)
 Fan RPM Discharge Static Pressure
 (in.wg.) Filter Static Pressure (in.wg.)
 Cooling Coil / Heating Coil Static
 Pressure (in.wg.) Compartment to
 Compartment Static Pressure
 Differentials (in.wg.) Minimum
 Ventilation Airflow / Outside Air
 Damper Position Return Airflow

Vortex / VFD Position

ii. Apparatus –
Hydronic/Refrigerant Coil Test
Report
Unit Identification
Location / Area Served
Coil Type
Number of Rows
Fin Spacing (Fins/Inch)
Make and Model #
Face Area (Square Feet)
Tube Size (NPS)
Tube and Fin Materials
Circulating Arrangement (3-way
or 2-way)
Average Airflow Velocity
Airflow Rate
Air Pressure Drop
Outside Air Temperature (Dry
Bulb and Wet Bulb)
Return Air Temperature (Dry
Bulb and Wet Bulb)
Mixed Air Temperature (Dry
Bulb and Wet Bulb)
Leaving Air Temperature (Dry
Bulb and Wet Bulb)
Hydronic Coil Flow (GPM)
Total Heating Capacity (Btuh)
Total and Sensible Cooling
Capacity (BtuH)
Water Pressure Drop (ft.hd.or
psig) Entering Water
temperature Leaving Water
Temperature DX Refrigerant
Expansion Valve and
Refrigerant Type
Refrigerant Suction and Liquid
Line Pressures (psig)
Refrigerant Suction
Temperature

iii. Apparatus – Electric Coil Test Report

Unit Identification
Location
Coil Identification
Capacity (BtuH)
Number of Stages
SCR Modulating or On-Off Control
Volts/Phase/Hertz
Rated Amperage
Airflow (CFM)
Face Area (Square Feet)
Minimum Face Velocity
Installed Fuse/Breaker Size for Overload Protection
Entering Air Temperature
Leaving Air Temperature

iv. Pumps – Test Report

Mark location of discharge valve(s) for reference.
Open 2-way control valves and operate variable speed drive at 100%.
Verify pump impeller size by operating the pump with the discharge valve closed. Verify with pump manufacturer that this will not damage the pump. Convert pressure to head and correct for differences in gage locations. Note operating point on manufacturer's pump curve at zero flow and confirm impeller size. Check system resistance. With all valves open, read pressure differential across

pump and mark the pump manufacturer's head-capacity curve. Adjust pump discharge valve until design water flow is achieved. If an overramping condition is experienced, discontinue test and report condition to Owner. Verify pump motor brake horsepower. Calculate the intended brake horsepower for the system based on the pump manufacturer's performance data. Record calculated brake horsepower and nameplate data on pump motor. Report flow rates that cannot be adjusted within +/- 5% of design to Owner.

v. Compressor / Condenser
Units – Test Report
Unit Identification
Location
Unit Make and Model #
Manufacturer's Compressor
Serial #'s
Compressor Make
Refrigerant Weight (lbs.)
Low Ambient Temperature
Cutoff (Deg. F)
Entering Condenser Air
Temperature (Dry Bulb)
Leaving Condenser Air
Temperature (Dry Bulb)
Number Fans
Condenser Fan RPM
Condenser Fan Airflow (CFM)
Condenser Fan Motor Make,
Frame Size, RPM and
Horsepower

Condenser Fan Motor Voltage
Condenser Fan Motor
Amperage
Control Settings
Unloader Set Points
Low Pressure Cutoff Setting
(psig)
High Pressure Cutoff Setting
(psig)
Suction Pressure (psig)
Suction Temperature (Deg.F.)
Condenser Refrigerant Pressure
(psig)
Condenser Refrigerant
Temperature (Deg.F.)
Oil Pressure (psig)
Oil Temperature (Deg.F.)
Crankcase Heater KW

vi. Boilers – Test Report

Boiler Model and Serial #
Burner Input Rating
Boiler Output Rating
Water Flow Rate
Entering Water Temperature
(Deg.F.)
Leaving Water Temperature
(Deg.F.)
Measured Flu Gas Temperature
(Deg.F.)
Measured Flu Gas O2 and CO2
Level
Calculated Boiler Operating
Efficiency (%)

vii. Heat Exchangers – Test Report

Water Flow Rate (GPM)
Control Valve Model (Cv)
Entering Steam Pressure (psig)

Entering Water Temperature
(Deg.F.)
Leaving Water Temperature
(Deg.F)
Water Pressure Drop (psig)

C. Provide equipment performance testing in conjunction with initial inspection as described above.

D. It is required that the Vendor record all pre-inspection settings and post inspection settings of all devices in the initial inspection report. Any devices that do not have an indexed method by which the position can be recorded shall have a mark placed by a shaft, damper blade, etc, so that the balanced position can be restored in the event that repairs, such as the replacement of a damper operator, is required at some future date. This shall be by permanent marker, dated by Vendor and labeled accordingly.

E. Vendor shall provide documented test and commissioning report that shall be maintained within the Owner's O&M manual and shall include a minimum of the following contents:

- i. Pump Manufacturer's Published Performance Data to Include Pump Curves
- ii. Pump Related Field Test Data
- iii. Fan Manufacturer's Published Performance Data to Include Fan Curves
- iv. Fan Related Field Test Data
- v. Coil Manufacturer's Published Performance Data
- vi. Coil Related Field Test Data
- vii. Chiller Manufacturer's Published Performance Data
- viii. Chiller Related Field Test Data

- ix. Boiler Manufacturer's Published Performance Data
- x. Boiler Related Field Test Data
- xi. Heat Exchanger Manufacturer's Published Performance Data
- xii. Heat Exchanger Field Test Data
- xiii. Design Versus Final Performance
- xiv. Notable Characteristics of System

F. Vendor shall be responsible for inspecting and updating Operating & Maintenance (O&M) manuals to ensure "completeness" with respect to technical literature, O&M procedures, parts list, assembly diagrams and wiring diagrams. In addition, Vendor shall update/enhance O&M manuals to incorporate all pertinent technical information into a systems specific document that shall be maintained "on-site". The O&M manual shall be annually updated to include performance checklist and calibration reports of all scheduled equipment.

G. Vendor shall be required to furnish test and calibration equipment that is of sufficient quality and accuracy to test/measure the operating performance of scheduled equipment and compare results to specify / industry standard tolerances. Test and calibration equipment shall be calibrated per manufacturer's recommended intervals and calibration certificate shall be documented/affixed to each instrument. Submit list of proposed test equipment.

H. Vendor shall test and ensure the function/reliability of integral safety devices such as low water cut-off, pressure limits, low refrigerant, freeze-state (hardwired and software).

I. Vendor shall provide on-site preventative maintenance, inspections, emergency service and all labor and parts, including oil, refrigerant, air filters and other materials to diagnose, repair or replace components of scheduled equipment to ensure proper function (minimum of 4 inspections per year, Quarterly).

J. The Contractor shall furnish all required parts and labor excluding repairs due to negligence, acts of God, war, power fluctuations, or conditions caused beyond the reasonable control of Vendor.

K. A documented service report shall be provided with each on-site inspection/service call shall and shall include performance checklist results for all equipment, list of adjustments, repairs or equipment replaced to include recommended further action, if required.

L. Vendor must be available (on call) twenty-four (24) hours per day, seven (7) days per week to respond to requests for emergency service. Vendor must respond to calls for service within four (4) hours of notification. Failure to respond within four (4) hours will result in a charge to the Vendor of \$100.00 per hour for each hour over the four (4) hour limit. Emergency phone numbers shall be included within the bid.

11. DC SCOPE OF WORK REQUIREMENTS:

A. Vendor shall provide testing, maintenance, preventive maintenance services and repairs of the DC system equipment, to include all ancillary components. Ancillary components shall include but not be limited to; low voltage power supply(ies), transducers, wiring, valve and damper

operators, sensors, relays, low temperature detection thermostats (freeze-stats), etc. Control equipment not included within the scope of work shall be limited to factory mounted controls installed on the chillers, boilers, and domestic hot water units. All technicians performing service on facility equipment will be certified / trained by equipment manufactures.

B. Vendor shall be responsible for testing and verifying the function of the complete DC system and documenting the performance in accordance with design intent and documentation in accordance with industry standard guidelines to ensure that programmed sequences of operation are complete and exactly meet the design requirements. Test procedures shall fully describe; system configuration (sequence of operation), calibration requirements of all analog input devices, evaluation procedures for all modulating output devices for smoothness of control operation (complete stroke output device/directional travel), evaluating all status inputs/electrical interlocks, evaluating all 2-position (on-off) control/interlocks and steps required for each test. The test procedures shall be appropriately documented in order for another party to repeat the tests with virtually identical results for accuracy.

D. Vendor shall establish seasonal software trending of operational variables, ie., temperature, pressure, relative humidity, etc., and perform documented comparative analysis via tables and/or graphs to evaluate optimum control tuning and parameters for achieving and maintaining set point (annual minimum of 1 documented evaluation for heating and cooling season).

E. Vendor shall be required to furnish test and calibration equipment that is of sufficient quality and accuracy to test/or measure DC system accuracy/performance and compare results to specified tolerances. Test and calibration equipment

shall be calibrated per manufacturer's recommended intervals and calibration certificate shall be documented/affixed to each instrument.

F. Vendor shall be responsible for inspecting and updating Operating & Maintenance (O&M) manuals to ensure "completeness" with respect to technical literature, O&M procedures, parts list, assembly diagrams and wiring diagrams. In addition, Vendor shall update/enhance O&M manuals to incorporate all pertinent technical information into a systems specific document that shall be maintained "on-site". The O&M manual shall be annually updated to include software/hardware performance checklist and calibration reports of all software/hardware equipment.

G. Vendor shall test and ensure the function/reliability of integral safety devices such as freeze-stats (hardwired and software).

H. Vendor shall provide on-site test and review of software/hardware to ensure proper function (minimum of 2 inspections per year). The Vendor shall be responsible for all needed DC system repairs and/or Equipment requiring replacement. The Vendor shall furnish all required parts and labor excluding repairs due to negligence, acts of God, war, power fluctuations, or conditions caused beyond the reasonable control of Vendor.

12. Preventive maintenance

A. Job labor and associated travel expenses required to clean, alignment, calibration, tighten, adjustments, lubricate, and paint equipment. Activities include:

1. Cleaning shall consist of coil surfaces; fan impellers and blades; electrical contacts; burner orifices; passages and nozzles; pilot and igniter; cooling tower baffles' basin'

sump and float; chiller, condenser and boiler tubes. A thorough coil cleaning shall be completed during the third (3rd) quarterly preventive maintenance visit and documented by way of adhesive label mounted on the mechanical system in a location that will not interfere with its operation.

- II. Alignment of equipment belt drives; drive couplings; air fins.
 - III. Calibrating safety controls; temperature and pressure controls.
 - IV. Tightening shall include but not limited to electrical connections; mounting bolts; pipe clamps; refrigerant piping fittings; damper sections.
 - V. Adjusting belt tension; refrigerant charge; super heat; fan RPM, water chemical feed and feed rate; burner fuel/air ratios; gas pressure, set point of controls and limits; compressor cylinder UN-loaders; damper close-off; sump floats.
 - VI. Lubrication of equipment will follow manufactures prescribed instructions to include motors; fan and damper bearings; valve stems; damper linkages; fan vane linkages.
 - VII. Painting of the exterior cabinet or shell of units for corrosion control.
- B. Filter replacement is included using Extended Surface Pleated filters to be changed on a quarterly basis. Date of

filter replacement shall be annotated on an adhesive label for each unit in a location that will not interfere with its operation.

13. Trouble calls. (Other than Scheduled Preventive Maintenance) Job labor and associated travel expenses including overtime and holidays, for unscheduled work resulting from an abnormal condition. This coverage will be 24 hours per day, seven days per week. Parts / materials procurement labor (locating, ordering, expediting, and transporting) required to repair, remove, and replace broken, worn, and/or doubtful components and /or parts. Costs shall reflect other than quarterly Preventive Maintenance visits.

Base Bid Item 1: Preventive Maintenance
Contract for the ~~Summersville~~
AFRC

Sten Jean

Unit: Lump Sum / Base Bid for yearly Contract

Description: Vendor shall visit location on a quarterly schedule and provide a detailed activity report to the Facilities Maintenance Manager. Report will be due within 15 (fifteen) days of completion of quarterly inspection. **Activities include:** Cleaning of coil surfaces; fan impellers and blades; electrical contacts; burner orifices; passages

and nozzles; pilot and igniter; cooling tower baffles', basin' sump and float; chiller, condenser and boiler tubes. Alignment of equipment belt drives; drive couplings; air fins. Calibrating safety controls; temperature and pressure controls. Tightening shall include but not limited to electrical connections; mounting bolts; pipe clamps; refrigerant piping fittings; damper sections. Adjusting belt tension; refrigerant charge; super heat; fan RPM, water chemical feed and feed rate; burner fuel/air ratios; gas pressure, set point of controls and limits; compressor cylinder UN-loaders; damper close-off; sump floats. Conformance with overall desired performance design and providing support services for Buildings HVAC control system. Lubrication of equipment will follow manufactures prescribed instructions to include motors; fan and damper bearings; valve stems; damper linkages; fan vane linkages. Replacement of filters with pleated filters meeting existing efficiency factor. Replace filters in each / all units once a quarter. Painting of the exterior cabinet or shell of units to control corrosion as needed. Digital controls are included as a part of this service. Vendor shall provide any and all needed materials, labor, tools, parts and equipment for work required. All technicians performing service on facility equipment will be certified / trained by equipment manufactures.

Measurement: Annual contract with four (4) quarterly visits. Each quarterly visit will be based on completion of preventive maintenance and services agreement.

Payment: Annual contract paid by quarterly invoice accompanied with services rendered. Fore mentioned reports and data required will be needed prior to invoicing. ALL SERVICES / PURCHASE ORDERS MUST BE INVOICED SEPARATELY.

**Bid Alternate Item 1: Emergency Service calls /
Trouble calls**

Unit: Time and Materials

Description: Work other than scheduled preventive maintenance (bid item #1). This coverage is 24 hours per day, seven days per week. Parts, materials and labor required to repair, remove, and replace broken, worn, and/or doubtful components and /or parts. Vendor shall provide any and all needed materials, labor, tools, parts and equipment for work required. Once a job order services have been requested a quotation for repair shall be sent to Division of Engineering and Facilities, 1703 coonskin drive, Charleston, WV 25311 with in **five (5) working days** of service request so that a purchase order can be issued for repair / services. If repairs can not be made with in a reasonable amount of time contract may be canceled.

Measurement: Cost to restore HVAC equipment to its original intended operating purpose.

Payment: Labor / percentage markup for materials (Example: \$25 per hour / per person and 15% markup for parts and materials) Shall be invoiced separately from Preventive maintenance contract. Fore mentioned reports, data required and / or service reports will be needed prior to invoicing. INVOICES SHALL BE ITEMIZED TO INCLUDE QUOTATIONS.

Billing: Billing for services shall be itemized and only contain costs agreed upon in this contract. Absolutely No other charges will be requested such as: Truck charges, misc charges, lodging charges, sur-charges, tax or any other additional fees not covered in this contract. In addition to invoice, actual service dates, service performed to include building location, number and name, contract or purchase order number identification shall also accompany invoicing. A State Armory Board representative (at building location) signature verifying work complete is required with invoicing. Items listed above are required for invoicing. ALL SERVICES / PURCHASE ORDERS MUST BE INVOICED SEPARATELY.

Points of Contact: The contract person at the Division of Engineering and Facilities shall be Charlie Mitchell, Michael J. Beckner, 1707 Coonskin Drive, Charleston, WV 25311 - Phone: (304)561-6333

DEFK-8178 - Glen Jean

~~DEFK-8177~~ - HVAC Maintenance Contract Bid Form

Item #	Description	Annual Usage	* Unit Price	Extended Price
1	Annual Maintenance Contract	1		\$ 14,000
2	Regular Work Hours	80	\$ 60.00	\$ 4,800
3	After Regular Work Hours	40	\$ 50.00	\$ 2,000
4	Holiday Work Hours	20	\$ 40.00	\$ 800
5	Est Annual Part Usage X % Markup	\$25,000	% M/U 0%	\$ 25,000
Failure to Use this form may result in Disqualification			TOTAL	\$ 46,600

Bidder / Vendor Information:

Name: Casta Technical Services
 Address: 540 Leon Sullivan Way
 Phone# 304-346-0549 Charleston, WV 25322
 Email FWMaier@CastaTech.com

Contact Coordinator Information:

Name: Casta Technical Services
 Address: 540 Leon Sullivan Way
 Phone# 304-346-0549 Charleston, WV 25322
 Email FWMaier@CastaTech.com

* Item#1 = Annual; Items 2,3,&4 are Hourly unit prices; Item#5 = \$25,000 X % Markup over cost

Fred W. Maier
 Regional Account Manager

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Casta Technical Services

Authorized Signature: Fred W. Mason Date: 2/25/08