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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

GSD126424

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF:

KRISTA FERRELL 304-558-2596

TO

DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BUILDING 11 CHILLER PLANT 218 CALIFORNIA AVENUE CHARLESTON, WV 25305 304-558-2317

ADDRESS CHANGES TO BE NOTED ABOVE

SHIP VIA F.O.B. FREIGHT TERMS DATE PRINTED TERMS OF SALE 12/14/2011 BID OPENING DATE: 01:30PM 01/31/2012 BID OPENING TIME CAT. QUANTITY UOP ITEM NUMBER UNIT PRICE **AMOUNT** LINE 0001 LS 031-13 PROVIDE HVAC REPAIRS ON VARIOUS UNITS IN BLDG. 11 REQUEST FOR QUOTATION (RFQ) CONSTRUCTION THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH ALL LABOR AND MATERIALS FOR VARIOUS HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) REPAIRS TO VARIOUS UNITS IN BUILDING 11 LOCATED ON THE WEST VIRGINIS STATE CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS. A MANDATORY PRE-BID WILL BE HELD ON 01/06/12 AT 10:00 AM AT THE AGENCY'S LOCATION ON THE CORNER OF CALIFORNIA AVENUE AND PIEDMONT ROAD IN CHARLESTON, WV. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER. AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY FAILURE TO PROVIDE YOUR COMPANY AND PRE-BID. REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE

### 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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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.
- Payment may only be made after the delivery and acceptance of goods or services.
- Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. 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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. 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, and the West Virginia Insurance Commission. 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.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

#### **INSTRUCTIONS TO BIDDERS**

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. 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. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. 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: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BUILDING 11 CHILLER PLANT 218 CALIFORNIA AVENUE CHARLESTON, WV 25305 304-558-2317

SHIP VIA F.O.B. FREIGHT TERMS DATE PRINTED TERMS OF SALE 12/14/2011 BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM CAT. AMOUNT UNIT PRICE LINE QUANTITY UOP ITEM NUMBER BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID KRISTA FERRELL-FILE 21 BUYER: REQ. NO.: GSD126420 BID OPENING DATE: 01/31/2012 BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE DATE TITLE ADDRESS CHANGES TO BE NOTED ABOVE

General Services Division Bldg. 11 HVAC Repairs GSD126424

# REQUEST FOR QUOTATIONS GSD126424 Building 11 HVAC REPAIRS Charleston, West Virginia

Location:

West Virginia State Office Building 11 California Avenue & Piedmont Road Charleston, West Virginia 25301

For:

State of West Virginia General Services Division 1900 Kanawha Blvd; East Charleston, West Virginia 25305

All inquiries for specification clarification shall be addressed to:

Krista Ferrell, Buyer Supervisor

Purchasing Division P. O. Box 50130

Charleston, West Virginia 25305-0130

Telephone: (304) 558-2596

Fax: (304) 558-4115 Krista.S.Ferrell@wv.gov

The Acquisition and Contract Administration Section of the Purchasing Division "State" for the West Virginia General Services Division is soliciting quotations to provide HVAC Services and repairs as specified in the attached documents in Building 11 located at Piedmont Road/California Avenue Charleston, West Virginia. This document is intended to supplement information provided in the standard "Request for Quotation" and "General Terms and Conditions" issued by the Purchasing Division for this project. Vendors should carefully review all documents.

#### **Mandatory Pre-Bid Meeting:**

A mandatory pre-bid conference will be held on January 6, 2012 at 10:00 am. Contractors attending the meeting shall assemble in the 2<sup>nd</sup> floor conference room of Building 11. No parking is provided for attendees by the Agency. See Purchasing Division Request for Quotation for additional information.

#### Scope of Work:

1. Heat Exchanger #2 (Mueller Model #AT80 B-20 Serial #220181-1)- Perform cleaning and unit maintenance per Mueller specifications. (Attachment A)

- Chiller Unit #5 Trane (Model# CVHF128 Serial #L99A00288)- Replace soft starter on unit, Cutler Hammer #S801T24N35 (or equal), test and return to normal operation.
- 3. Tower #1, Morley NC Series (serial #nca222c5)- the sump heater needs reseated and sealed; it is currently pulling away from the tower frame.
- 4. Bell and Gossett main loop chilled water circulating pump # 3 (serial #2050047 Model #VSCS 11.875 BF RHR 0F3440)- complete pump and motor rebuild or replacement due to shaft vibration (suspected), rebuild inner bearings and outer bearings on the pump and motor (unit is currently out of service).
- Condenser pump #14- needs replaced/repaired and brought back to normal operation. Symptoms: Unit trips to shutdown mode without TRACER alarm for system failure, unknown problem.
- Chiller Unit #3 and Condenser Pump #12- replace triple duty valve ITT Bell & Gossett PN# 132129 (or equal).

## TEST AND RETURN ALL EQUIPMENT LISTED TO NORMAL OPERATION AND MONITORING MODE BY TRACER SYSTEM

The work schedule shall be reviewed and approved by the Agency Project Manager prior to commencement of the work. The Contractor shall coordinate the schedule around the Agency's work requirements.

Contractor shall furnish all materials, labor, and equipment necessary to complete all work as indicated by these specifications. The intent is that the completed work returns unit to full operation mode. Contractor shall furnish any incidental work, materials, labor and equipment that are necessary to complete the work, even if such incidental work is not explicitly included in the contract documents.

Any equipment or material contracted for prior to receipt of the signed purchase order and written Notice to Proceed letter shall be at the Bidder's risk.

#### Documents:

This Request for Quotations also incorporates the attached documents:

- 1. The WV Purchasing Division "Request for Quotation" and "General Terms and Conditions".
- 2. Attachment A: Mueller Service Specifications
- 3. Attachment B: Bid Form

#### Contract Period:

The Contract shall be completed within FOTY-FIVE (45) calendar days from the issuance of the written Notice to Proceed. In accordance with the West Virginia State

Code 5A-3-4(8), vendor agrees that liquidated damages shall be imposed at the rate of \$250.00 per day for failure to complete the project within the contract period. This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other additional remedy to which the State or Agency may have legal cause for action including further damages against the vendor.

#### Reference Requirement:

Bidders shall supply, with their bid, at least three references indicating their capabilities to perform such work. References shall include the name, location, and HVAC system used in the building in addition to the name, address and telephone number of a contact person with the building's owner familiar with the work.

#### Qualifications:

The Contractor shall have the minimum qualifications outlined below to perform the services specified under this Contract. The Contractor shall provide the Agency all documentation of the qualifications in line 1 prior to award (see Bid Form and Section labeled "Reference Requirement" above).

1. The Contractor must provide letters of reference for at least three (3) distinct contracts documenting the successful completion of repair and warranty services for the type of equipment currently serving Building 11.

Work under this Contract may only be performed by a mechanic who has first provided documentation of certifications and or licensure for the following:

1. Electricians-

WV Master Electricians License

2. Plumbers-

WV Master Plumbers License

3. HVAC-

EPA 608 Certification and Apprentice Certification or Completion of HVAC Vocational Program prior to

January 1, 2006

#### Definitions:

- A. The "Agency" shall be defined as The Department of Administration, General Services Division, State Capitol Complex, Building 1, Room MB-60, Charleston, West Virginia 25305.
- B. "Contractor" shall be defined as the successful bidder or vendor.
- C. The "Contract" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Contractor to provide the services as herein specified.
- D. "Agency Representative" shall be defined as the person designated by the Director of the General Services Division as having authority to act on behalf of the General Services Division.

- E. "Corrective Repair" shall be defined as repair work performed to correct a malfunction or failure in an HVAC system.
- F. "Holidays" shall be defined as days designated by W.Va. Code §2-2-1 as legal holidays (i.e. new Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, West Virginia Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Lincoln's Day, Election Days, and Christmas Day).
- G. "Testing" shall be defined as a function test upon the completion of ordered services to ensure equipment is returned to normal operating mode or to determine if additional repairs are required.

#### Payment:

Invoices shall be submitted for payment (in arrears) and must include the following information:

- 1. Invoice must include invoice date, service dates, FEIN number, complete address of vendor and Master Contract number.
- 2. Invoices shall be mailed to the following address:

General Services Division 1900 Kanawha Blvd. E. Building 1, Room MB-68 Attn: Business Manager Charleston, WV 25305

All work shall be inspected and approved prior to payment.

#### **Supplementary General Conditions:**

- A. The qualified Contractor shall satisfactorily perform all specified work outlined in the Scope of Work and further described in the drawings, specifications or other attachments. Authorization to perform the work described herein must be approved in writing by issuance of the Notice to Proceed and signed by the Agency Representative.
- B. The Contractor shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State, or municipal, along with all regulations, and ordinances of any regulating body.
- C. The relationship of the Contractor to the Owner shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this Contract. The Contractor as an independent contractor is solely liable for the acts and omissions of its employees and agents. The Contractor will be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this contract. Neither the Contractor nor any employees or sub-contractors of the Contractor will be deemed to be employees for the State for any purposes whatsoever. The wages and salaries, taxes,

withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred obligations, and licensing fees, etc., and the filing of all necessary documents, forms and returns pertinent to all of the foregoing are the Contractor's responsibility.

- D. The Contractor will hold harmless the State, and must provide the State and Agency with a defense against any and all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns. The Contractor will not assign, convey, transfer, sub-contract, or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.
- E. Indemnification: The Contractor agrees to indemnify, defend, and hold harmless the State and the Owner, their officers, and employees from and against (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Contractor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; (3) Any failure of the Contractor, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.
- F. This contract will be governed by the laws of the State of West Virginia. The Contractor further agrees to comply with the Civil Rights Act of 1964 and all other applicable Federal, State, and local Government regulations.
- H. The Contractor will pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this Contract, the transaction, or the equipment, or services delivered pursuant hereto shall be borne by the Contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this Contract.
- I. Contractor will be responsible for parts and materials as follows:
  - The Contractor will supply all tools, tool accessories, personal safety equipment, and supplies necessary to execute the responsibilities of this Contract. Contractor will be responsible for the removal and disposal of all waste and debris from Owner's property as a result of performing this contract.
  - 2) Contractor will be responsible for all mileage and travel costs, including travel time, associated with the performance of this contract.
  - Unless greater warranties are specified elsewhere in this RFQ, the Contractor shall include a minimum one (1) year labor and materials warranty on all work performed.

General Services Division Bldg. 11 HVAC Repairs GSD126424

J. Any work to be performed to successfully execute the terms of this Contract by a third party or sub-contractor must be pre-approved by the Owner or their Representative or Designee. All such work, after Owners approval, will remain the sole responsibility of the successful bidder/Contractor with regard to all labor, materials, fees associated with the sub-contracting and any/all associated responsibilities. Under no circumstances will the Contractor transfer responsibility for any work as described herein by a third party or sub-contractor.

#### Bonds and Insurance:

Refer to Purchasing Division's 'Request for Quotation' for requirements on bonding; insurance; wage rates; "Foreign made aluminum, glass and steel in Public Works Projects", and other project requirements.

#### General Requirements:

Submittals: N/A

#### Project Closeout:

- 1. Final cleanup shall be completed prior to final acceptance.
- 2. Submit warranty documents to Agency Project Manager.
- 3. Perform final inspection with the Agency Project Manager.

#### Final Inspection:

The Final Inspection will be conducted by a Project Manager from the Agency. Work found to be in accordance with the Contract Documents will be accepted as complete for final acceptance. Unacceptable work, or work not in accordance with the Contract Documents shall be removed, replaced, changed or cleaned as required to meet requirements of Contract Documents prior to final acceptance. Final Acceptance does not waive or release Contractor to conform to the Contract Documents.

Final payment shall not be made until all work is finally accepted.

#### Limits of Work:

Work areas will be limited to those spaces required for access to the building.

Some interior space may be utilized for temporary (overnight) storage of equipment and tools. Coordinate storage needs with the Agency Project Manager.

Agency facilities shall remain in use during this contract. Contractor shall work with the Building Manager and Protective Services to coordinate the temporary access to work areas and otherwise provide for the Contractor needs to complete work. Contractor shall minimize disruption to building work areas and loading dock access.

#### **Use of Facilities:**

Contractor shall be permitted reasonable use of building utilities including power, water and sanitary sewage disposal as required for conducting the work. Contractor shall coordinate the location of service connections or use of receptacles with the Building Manager to avoid overloading existing circuits.

#### Contractor Schedule:

The Contractor shall provide the Agency Project Manager with an overall project schedule within seventy-two (72) hours of Award of the Contract. The proposed project schedule shall indicate areas to be worked. Where coordination or disruption of office workspaces or occupants may be required, provide at least one week's advance notice prior to conducting work in those areas. Contractor shall adhere to schedule provided and coordinate through the Agency Project Manager.

#### Waste Removal:

The Contractor shall be required to leave the work area clean upon completion of work daily. Contractor shall make arrangements for the collection and disposal of Contractor's waste and construction related debris. Debris shall be removed on a daily basis.

#### **Contractor Visitor Badges:**

Contractor shall provide a list of all personnel working on this project within the Building. This list shall include a copy of a valid driver's license or other legal identification and include date of birth and cell phone number. All proposed workers may be subjected to a criminal history / driver's license background check prior to being permitted to work in state buildings. Workers shall carry valid Contractor Photo ID Badges to be worn when working in the building. Under no circumstances shall a worker be assigned to this project without the validation first being submitted to the General Services Division and approval given.

#### Work Restrictions:

Work shall be generally performed inside the existing building between normal business hours of 7:00 am to 5:00 pm, Monday through Friday, except state recognized holidays. Weekends may be permitted when pre-arranged with the Agency Project Manager.

This is a non-smoking building. Smoking is not permitted within the building or near entrances, operable windows or outdoor air intakes.

#### Parking:

No parking is available on the project site. Parking in non-designated areas is not permitted. Parking is the responsibility of the contractor. With prior approval, contractor's vehicles may be brought on-site for loading & unloading or to provide equipment necessary for conducting the work.

Use of loading dock areas or sidewalk areas for parking is strictly prohibited.

#### **Building Access:**

The building is available from 7:00 am to 5:00 pm. Extended work hours or schedules may be arranged if acceptable and approved by the agency. This building is a secure location. Access to the building shall be coordinated with the Owner. Contractor shall not leave open doors unattended and shall close doors when not in use.

#### Codes:

All work is to be performed in compliance with applicable Federal and State codes including but not limited to the International Building Code, International Mechanical Code, Life Safety Code, NEC, OSHA, UL, ANSI, ASME and related standards.

#### Safety:

All applicable local safety and OSHA rules and guidelines shall be met by the Contractor. Work shall be subject to verification and inspection by GSD Safety representatives. Such verification shall not relieve the Contractor from meeting all applicable safety regulations and inspection by other agencies.

Notify Owner if suspected hazardous materials are encountered. Any areas requiring abatement will be provided by the GSD under separate contract.

#### Hot Work Permit:

Contractor shall obtain Owner's permission prior to performing any work that requires an open flame, creates sparks, use's equipment that creates combustible temperatures, or performs any work that could result in a fire hazard. Owner will review work area and issue a 'Hot Work Permit' prior to Contractor commencing work. Note that the Contractor must take proper precautions and may be required to provide a Fire Watch as a condition of the permit.

#### Workmanship:

Contractor shall complete all work in a neat and workmanlike manner. All work shall be done using new materials in a manner that meets commercial quality standards. Work shall be neat, true, plumb and square, as applicable. Contractor shall verify all dimensions.

#### Warranty:

A one year warranty on labor and materials or the manufacturer's warranty, whichever is greater, are required.

#### SECTION 4.0 - MAINTENANCE

#### 4.1 Unit Shutdown

Cool the unit to below 100°F and drain it of all fluid. If unit is to remain unused for long periods of time, the plate pack should be loosened until all compression pressure is off the gaskets. Shrouds should be left on units during operation and storage to prevent particles which may collect on the plates from dropping onto gaskets upon opening.

#### 4.2 Unit Disassembly

Using all of the compression bolts, begin to loosen each bolt (in a diagonal pattern) one turn at a time until any trapped fluid drains from the unit. Remove the bottom set of bolts and proceed to loosen the remaining bolts until the unit is completely uncompressed. At this time, the movable end frame is manually moved toward the rear.



CAUTION: To avoid injury to workers or damage to plates, exercise care when removing compression bolts, rolling the movable end frame, or unloading plates to prevent plates from falling from the unit.

#### 4.3 Removal of Plates

Plates may be removed by tilting the bottom of the plate toward the movable end until it clears the lower guide bar and then rotating the plate until it disengages the upper guide rail. Gloves should be worn for this procedure, and enough hand support should be used to prevent dropping of the plate. Care should be taken to prevent damage to gaskets with plate edges. When plates are removed, stack them on a clean, flat surface to prevent iron particles or dirt from being embedded in gasket surfaces.

NOTE: After unit has been exposed to elevated temperatures for a period of time, gaskets may tend to adhere to the adjacent plate. This condition will be apparent when the unit is opened for servicing. If this occurs and servicing requires that the seal be broken, the plates which are adhered should be carefully pried apart using a putty knife, straight-edge screwdriver blade, or similar thin, flat device. Each time a unit is opened, there is a chance for gasket damage to occur; therefore, the number of times a unit is opened should be held to a practical minimum.

#### 4.4 Replacing Plates

When replacing plates with spares in stock, simply remove and replace the old plate with one of the same size, porthole configurations, and gasket material. If no spares are available, a damaged plate punched 1-2-3-4 may be removed along with an adjacent plate that is similarly punched. This will only slightly, if even noticeably, reduce overall heat transfer of the unit. If this method is used, reduce the "A" dimension by the multiplier stamped on data plate times number of plates removed.

#### 4.5 Replacement Plate and Gasket Ordering

When ordering replacement parts, include the unit serial number, part number, and quantity of parts to be ordered. This information is permanently attached to the fixed end frame.

#### 4.6 Back Flushing

As Accu-Therm units contain many contact points to withstand pressure differentials, particulates and especially fibers can build up at this point. This problem can be greatly reduced and sometimes eliminated by simply reversing the flow on the fouled side. In some applications, the flows can be simultaneously reversed on the hot and cold sides thus preserving true counterflow heat transfer. This allows continuous process operation while simultaneously cleaning the unit.

#### 4.7 Manual Cleaning Instructions

Plates may be individually cleaned while still hanging in the unit or when removed. A high-pressure water wand may be used as long as the steam is "not" directed at or under a plate gasket.

Iron particles embedded in stainless steel plates will accelerate rusting and corrosion. It is recommended that a fiber bristle or wire brush of the same alloy as the plates be used to clean plates.

#### 4.8 Frame Maintenance

Painted steel frames should be touched up or repainted as necessary to prevent rusting. A coating of suitable lubricant should be kept on the thread-use area of the frame compression bolts, the upper and lower guide rails, and any bearing surfaces to facilitate ease of opening and closing the Accu-Therm when maintenance is required.

#### 4.9 Storage Procedures

The following steps should be taken with units that are to be in storage three months or longer:

- 1. Completely drain the unit.
- 2. Loosen compression bolts until they are no longer under tension.
- Place gasketed blind flanges on all nozzles and plug all other openings.
- Leave shroud in place.
- Store unit in a location that is above freezing. Extremely low temperatures can alter gasket properties by elastomeric crystallization.
- 6. Coat bolt threads and unpainted carbon steel parts with light grease or oil.
- Store unit away from electric motors and welding areas, as high levels of ozone are very destructive to gaskets.

#### 4.10 Corrosive Media and Their Potency

The corrosion resistance of a piece of equipment is dependent not only on the selection of the most suitable alloy but also upon the correct treatment of the material during welding, cold working, and subsequent mechanical and chemical treatments of the surface.

Even with ideal selection and proper handling of plate materials, chemical resistance is not assured. Under certain conditions, an alloy may react with its environment causing a measurable change in the material which can lead to corrosion damage.

The objective of this section is to inform the equipment operator of the limitations of chemical cleaning and sterilizing agents in order to avoid localized spot and crevice corrosion.

The main cause of crevice and spot corrosion of stainless steel is the absorption of chloride ions into the passive area of the steel. Chloride ions gain access to plate surfaces by:

- ▲ Product contact
- ▲ Process water
- ▲ Cooling media
- ▲ Detergents and sterilizing agents

The corrosive action of chloride ions is enhanced by:

- ▲ Concentration
- ▲ Duration
- ▲ Temperature
- ▲ Pressure
- ▲ Reduced pH values
- ▲ Positive-drop redox potential

The effect of the above factors below a critical level can rarely be determined on a microscale. With concentration and local reductions of the pH value in crevices, local overheating with the buildup of lime deposits, etc., it is essential that all gaskets are properly seated and glued and that a provision is made to thoroughly rinse the equipment so that penetration of the cleaning solutions behind the gaskets cannot occur.

- ▲ Above a critical level, which is detectable with a test electrode, the passivity of the steel breaks down and local spot corrosion occurs.
- ▲ Redox potential means the equilibrium potential in an electrolytic reaction when ion migration occurs in a conductive media.

NOTE: Warranty does not cover corrosion of plates.

#### 4.11 Clean-In-Place (CIP) Systems

Clean-in-place systems have come into broad use due to a number of advantages:

- ▲ Timesaving
- ▲ Cost savings resulting from the use of less chemical solution
- ▲ Elimination of unit openings on hazardous duties, etc.

#### 4.12 Detergents and Sterilizing Agents

The corrosive action of detergents and sterilizing agents is mainly attributable to the action of chloride ions and can be avoided if the materials are used in the proper manner. Besides the detergents and sterilizers, a major source of chloride ions may be the water used to dilute concentrates of the above.

In order to avoid corrosion, it is suggested that the following concentrations, temperatures, and duration not be exceeded. Because of the nature of cleaning solutions used in CIP systems and the fact that they are used solely under the customer's control, the following procedures are offered as guidelines with no liability passing onto Paul Mueller Company as a result of their use. Supplier's recommendations and instructions should be followed closely.

1. Cleaning with a caustic-based detergent:

Concentration:

Up to 5 percent

Temperature:

Up to 185°F

Contact time may be maintained for as long as three hours with a chloride content as high as 500 ppm, as alkaline solutions tend to inhibit corrosion caused by chlorides. Surface discoloration may occur, but this does not indicate corrosion.

Combined detergent and sterilizer (based upon sodium hydroxide and sodium hypochlorite): It is essential that a pH of 11 is maintained during the cleaning phase when using this mixture.

Concentration:

Up to 5 percent

Temperature:

Up to 160°F

Due to the rapid degradation of the hypochlorite, the upper-limit contact time of one hour is very critical. Continually monitor the cleaning process and discontinue as soon as plates are clean.

3. Acid cleaning based on phosphoric and/or nitric acid:

Concentration:

Up to 5 percent

Temperature:

Up to 195°F

Duration:

Up to 1 hour

Nitrate ions only inhibit chloride ions when used in high concentrations. Care must be taken, however, in maintaining the flooding of the unit during the cleaning phase, as nascent hydrochloric-acid gas above the liquid level can cause corrosion.

4. Sterilization using sodium hypochlorite:

Concentration:

Up to 300-ppm active chlorine

Temperature:

Up to 70°F, 2 hours maximum

Duration:

Up to 140°F, 30 minutes maximum

Sterilization using acetic acid: The corrosive action is determined by the chloride content of the diluting water which is 300 ppm maximum.

1. Cold sterilizing:

Concentration (volume):

Up to .15 percent\*

Temperature:

Up to 70°F

Duration:

Up to 24 hours

2. Hot sterilizing:

Concentration (volume):

Up to .0075 percent\*

Temperature:

Up to 195°F

Duration:

Up to 30 minutes

\*100% acetic acid.

6. Sterilization using iodophor: For use with dilution water with up to 300-ppm chlorides:

Concentration:

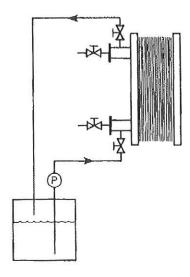
50 ppm 85°F

Temperature:

Final rinsing with cold water should follow all CIP procedures and be continued until all detergent or sterilant residues have been removed. The unit may now be drained of rinse water and put back into service.

Most CIP systems utilize inexpensive plastic pumps for cleaning. These pumps are generally of a capacity much less than the process pumps. For this reason, it is extremely important to pump cleaning solution in a bottom-to-top flow so as to totally flood the unit. In multiple-pass units, it will be necessary to pump the solution through one nozzle for half the time and then to reverse the flow for the remainder. This will guarantee the wetting of all plate surfaces by the cleaning solution (see Figure 16).

Figure 16 - Cleaning Solution Flow



#### 4.13 Precautions

Cleaners using a hydrochloric or hydrofluoric-acid base, including inhibited grades, may never be used. Avoid the use of an acid cleaner after using a detergent which may contain active chlorine compounds, as hydrochloric acid may be produced as a result of interaction left in crevices and behind gaskets. This promotes rapid crevice corrosion in these areas. When using nitric and phosphoric acids, caustic soda, or hypochlorite solutions in the food industry, these should be approved food-grade compounds. Manufacturer's recommendations for the storage and use of proprietary compounds should be followed closely. Care must be taken when using these products as many are hazardous.

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#### GSD126423 Attachment A: Bid Form

Bidder's Company Name:
Bidder's Address:
Remittance Address:(if different)
Phone Number:
Fax Number:
Email Address:
WV Contractor's License Number:
We, the undersigned, having examined the site and being familiar with the local conditions affecting the cost of the work and also being familiar with the general conditions to bidders, drawings, and specifications, hereby propose to furnish all materials, equipment, and labor to complete all work in a workmanlike manner, as described in the Bidding Documents.
TOTAL CONTRACT BID (Total to be written in words and numbers)
(\$ )

General Services Division GSD126423 Bldg 32 HVAC Repair

#### References

Position: Address: Telephone Number: Project Name:	
Position: Address: Telephone Number: Project Name:	
Reference Name: Position: Address: Telephone Number: Project Name: Project Description:	

	Agency REQ.P.O#
	BID BOND
KNOW ALL MEN BY THESE PRESENTS. That	we, the undersigned,
	, as Principal, and
	, a corporation organized and existing under the laws of the State of
	as Surety, are held and firmly bound unto the State
	(\$) for the payment of which,
	urselves, our heirs, administrators, executors, successors and assigns.
	at whereas the Principal has submitted to the Purchasing Section of the ttached hereto and made a part hereof, to enter into a contract in writing for
NOW THEREFORE,	
hereto and shall furnish any other bonds and insurance reagreement created by the acceptance of said bid, then the	oal shall enter into a contract in accordance with the bid or proposal attached equired by the bid or proposal, and shall in all other respects perform the his obligation shall be null and void, otherwise this obligation shall remain in full hat the liability of the Surety for any and all claims hereunder shall, in no event, ed.
The Surety, for the value received, hereby stipul way impaired or affected by any extension of the time wit waive notice of any such extension.	lates and agrees that the obligations of said Surety and its bond shall be in no thin which the Obligee may accept such bid, and said Surety does hereby
IN WITNESS WHEREOF, Principal and Surety I	have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto	and these presents to be signed by their proper officers, this
day of, 20	
Principal Corporate Seal	
	(Name of Principal)
	By
	(Must be President or Vice President)
	(Title)
Surety Corporate Seal	(Name of Surety)
	Attomey-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals must be affixed, a power of attorney must be attached.

(A)

AGENCY\_

#### BID BOND PREPARATION INSTRUCTIONS

			RFQ/RFP#(B)
			Bid Bond
(A)	WV State Agency	KNOW ALL MEN BY TH	ESE PRESENTS, That we, the undersigned,
	(Stated on Page 1 "Spending Unit")	(C) of	(D) , (E) ,
	Request for Quotation Number (upper	as Principal, and(F)	of (G),
707202	right corner of page #1)	(H) , a corpor	ation organized and existing under the laws
(C)	Your Company Name	of the State of (1)	with its principal office in the City of
(D)	City, Location of your Company	(J) , as Suret	y, are held and firmly bound unto The State
(E)	State, Location of your Company	of West Virginia, as Obligee, in the	penal sum of(K)
(F)	Surety Corporate Name		bayment of which, well and truly to be made,
(G)	City, Location of Surety		ves, our heirs, administrators, executors,
(H)	State, Location of Surety	successors and assigns.	abligation is such that whomas the Principal
(I)	State of Surety Incorporation	has submitted to the Durchasing See	e obligation is such that whereas the Principal tion of the Department of Administration
(J)	City of Surety Incorporation	a certain hid or proposal attached he	ereto and made a part hereof to enter into a
(K)	Minimum amount of acceptable bid bond is 5% of total bid. You may state	contract in writing for	
	"5% of bid" or a specific amount on		(M)
	this line in words.		(171)
(L)	Amount of bond in figures		
(M)	Brief Description of scope of work	NOW THEREFORE.	
(N)	Day of the month	(a) If said bid shall be reje	ected, or
(O)	Month		epted and the Principal shall enter into a
(P)	Year		or proposal attached hereto and shall furnish
(Q)	Name of Corporation		red by the bid or proposal, and shall in all
(R)	Raised Corporate Seal of Principal		nt created by the acceptance of said bid then
(S)	Signature of President or Vice	this obligation shall be null and voice	l, otherwise this obligation shall remain in full
3 (5)	President		erstood and agreed that the liability of the
(T)	Title of person signing		der shall, in no event, exceed the penal
(U)	Raised Corporate Seal of Surety	amount of this obligation as herein s	
(V)	Corporate Name of Surety	The Surety for value recei	ved, hereby stipulates and agrees that the
(W)	Signature of Attorney in Fact of the	obligations of said Surety and its bo	nd shall be in no way impaired or affected by
	Surety		the Obligee may accept such bid: and said
NOTE:	Dated, Power of Attorney with Raised	Surety does hereby waive notice of	
	Surety Seal must accompany this bid		, Principal and Surety have hereunto set their
	bond.		s are corporations have caused their corporate
			presents to be signed by their proper officers,
		this(N) day of	(O) , 20 (P) .
		D 1 C	(0)
		Principal Corporate Seal	(Q) (Name of Principal)
		<b>(P)</b>	
		(R)	By(S)(Must be President or
			Vice President)
			The state of the s
			(T) Title
		(U)	Title
		Surety Corporate Seal	(V)
	-	~	(Name of Surety)
	*		
			ann.
			(W) Attorney-in-Fact
			Audiney-III-raci

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of Attorney must be attached.



## State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

STA'	TE OF						
cou	COUNTY OF, TO-WIT:						
I, state	e as follows:	after b	peing first duly sworn, depose and				
1.	I am an employee of		(Company Name); and,				
2.	I do hereby attest that		(Company Name)				
			ree workplace policy and that such st <i>Virginia Code</i> §21-1D-5.				
The	above statements are sworr	n to un	der the penalty of perjury.				
		4	(Company Name)				
		Ву:					
		Title:					
		Date:					
Take	en, subscribed and sworn to	before	e me this day of				
Ву С	commission expires						
(Sea	ıl)						
		// <del>******</del>	(Notary Public)				

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

Rev March 2009

	GSD12642	4
RFQ No		

#### 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.

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

#### WITNESS THE FOLLOWING SIGNATURE

Vendor's Name:		
Authorized Signature:	Date:	
State of		
County of, to-wit:		
Taken, subscribed, and sworn to before me this d	ay of	_, 20
My Commission expires	, 20	
AFFIX SEAL HERE	NOTARY PUBLIC	