

**DEPARTMENT OF VETERANS AFFAIRS**  
**Justification and Approval**  
**For**  
**Other Than Full and Open Competition**

1. **Contracting Activity:** Department of Veterans Affairs, VISN 16, Network Contracting Office (NCO) 16, Biloxi VA Medical Center, Biloxi, MS. The PR # is 520-14-1-5301-0007.
  
2. **Nature and/or Description of the Action Being Processed:** Brand Name (sole source) Justification for the procurement of three (3) Siemens BT300 HVAC Drives and one (1) Siemens PXC Compact Series Controller. This equipment is needed as a part of the requirements of Construction Project # 520-14-126 to replace three (3) Domestic Water Variable Frequency Drives (VFDs) and install three (3) new VFDs and one (1) new PXC Compact Series Controller that will allow the pump control to be added to the VA's Insight Building Automation System. The existing system cannot maintain proper water pressure during times when the water provider isn't able to maintain constant pressure. During periods of low water pressure, equipment is not receiving proper water pressure to operate and toilets will not flush. As pumps cycle on and off, a water hammer is created in the closed loop system which creates leaks in the system. A water hammer is a pressure surge or wave caused when a fluid in motion is forced to stop or change direction suddenly (momentum change) and can cause major problems to include: noise and vibration, the walls of containers to deform, to pipes collapse. A firm-fixed price Construction Contract is the type of contract planned.
  
3. **Description of Supplies/Services Required to Meet the Agency's Needs:** Three (3) Siemens BT300 HVAC Drives with motor switch ride through, thin film capacitors, and the capability to view/monitor nine parameters at one time. Contains built-in wizards for start-up and easy setup of advanced functions (PID Start-Up Wizard, Multi-Pump Wizard, and Fire Mode Wizard), integrated harmonic filters that reduce noise and interference, standard integration protocols, two (2) built-in PID controllers, build-in fire mode controller, energy savings with > 97.5% efficiency, and optimized cooling fans. One (1) Siemens PXC Compact Series Controller with DIN rail mounted device with proven program sequences to match equipment control applications, built-in energy management applications and DDC programs for complete facility management, comprehensive alarm management, historical data trend collection, operator control, and monitoring functions, sophisticated adaptive control, a closed loop control algorithm that auto-adjusts to compensate for load/seasonal changes, message control for terminals, printers, pagers, and workstations, highly configurable I/O using Siemens state-of-the-art TX-I/O™ Technology, HMI RS-232 port, and extended battery backup and restore within the controller. The estimated equipment cost is \$10,000.00. The overall Construction Contract Period of Performance that this equipment is associated with is 180 calendar days after receipt of the Notice to Proceed.
  
4. **Statutory Authority Permitting Other than Full and Open Competition:**
  - (1) Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements per FAR 6.302-1;
  - (2) Unusual and Compelling Urgency per FAR 6.302-2;
  - (3) Industrial Mobilization, Engineering, Developmental or Research Capability or Expert Services per FAR 6.302-3;
  - (4) International Agreement per FAR 6.302-4
  - (5) Authorized or Required by Statute FAR 6.302-5;
  - (6) National Security per FAR 6.302-6;
  - (7) Public Interest per FAR 6.302-7;

5. **Demonstration that the Contractor's Unique Qualifications or Nature of the Acquisition Requires the Use of the Authority Cited Above (applicability of authority): Only One Responsible Source (FAR 6.302-1)** – The Gulf Coast Veterans Health Care System is attempting to prevent possible extensive damage to our existing water system at our Joint Ambulatory Care Center (JACC) being caused by lack of sustained water pressure by our water provider. As noted earlier in this document, water hammers can cause major damage to our existing system that could cause a total water outage for the entire building which would then cause a total work stoppage for all patient services. Our requirement will utilize the PX Compact Series Controller along with select Siemens Lab controls that must communicate with the existing Siemens DCC System P2 proprietary communications trunk protocol. This requires communications to the existing Siemens P2 protocol DCC system to allow sharing of data from different DDC panels for control algorithms within our requirement, information monitoring and commanding via existing Graphical front-end Server/Clients, and for successful remote access capabilities. All the Siemens P2DDC panels utilize proprietary source code to accomplish the required sequence of operation. The TB300 HVAC Drives to be utilized for the Domestic hot water system enhancements are a Siemens proprietary product that in addition to having some unique and industry leading features, also provides the Siemens lower communication protocol (P1) allowing our existing DDC system to communicate all system variables within the VFD drive to the Siemens DCC panel and ultimately to the graphical workstations. The requirement for three (3) Siemens BT300 HVAC Drives and one (1) each PXC Compact Series Controller is essential to the Government's requirements and no other manufacturer's equipment can be successfully integrated into our existing system thereby precluding considerations of equipment manufactured by another vendor/manufacturer. Accordingly Siemens is the only firm capable of providing the three (3) Siemens BT300 HVAC Drives and one (1) each PXC Compact Series Controller without the Gulf Coast Veterans Health Care System experiencing substantial duplication of cost that could not be expected to be recovered through competition as it would require that our entire facility controls be replaced.
6. **Description of Efforts Made to ensure that offers are solicited from as many potential sources as deemed practicable:** The overall Construction requirement (that includes the above required equipment) will be advertised on the Federal Business Opportunities (FBO) website with this J&A attached to the Invitation for Bid (IFB) Solicitation Package. Any questions or concerns can be raised by bidders at that time.
7. **Determination by the Contracting Officer that the Anticipated Cost to the Government will be Fair and Reasonable:** The Contracting Officer anticipates receiving adequate price competition for the equipment as a result of the issuance of the IFB that contains the requirement equipment. Although the Government is not asking for a specific breakdown of equipment costs with each bidder's bid, we anticipate that adequate price competition will provide a basis to ensure that the price for the equipment is fair and reasonable. A technical evaluation by the Project Engineer will help ensure that the overall bid price accepted is fair and reasonable when based upon a comparison to the Independent Government Cost Estimate (IGCE).
8. **Description of the Market Research Conducted and the Results, or a Statement of the Reasons Market Research Was Not Conducted:** The Project Engineer conducted market research and determined through discussions and through correspondence with Siemens that the equipment required is proprietary and is required in order to be integrated into our existing facility monitoring system. As such, no additional market research was conducted or determined to be needed/required.
9. **Any Other Facts Supporting the Use of Other than Full and Open Competition:** No other manufacturer's equipment will be able to tie into our existing facility system and properly work because of proprietary controls contained in each piece of equipment that is required in order to be able to tie into the overall existing facility system.

10. **Listing of Sources that Expressed, in Writing, an Interest in the Acquisition:** No other manufacturers, vendors, or contractors have expressed an interest in this acquisition.

11. **A Statement of the Actions, if any, the Agency May Take to Remove or Overcome any Barriers to Competition before Making subsequent acquisitions for the supplies or services required:** We will continue to monitor the market for additional sources of supply that may become available for equipment that can be fully integrated into our existing facility monitoring system should the need for further equipment become necessary.

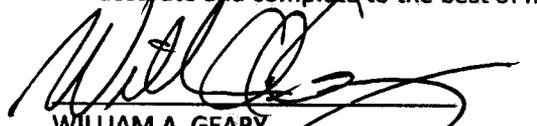
12. **Requirements Certification:** I certify that the requirement outlined in this justification is a Bona Fide Need of the Department of Veterans Affairs and that the supporting data under my cognizance, which are included in the justification, are accurate and complete to the best of my knowledge and belief.

  
CHRISTOPHER PHILLIPS  
Supervisor General Engineer  
Biloxi VA Medical Center – JACC

4/15/14  
Date

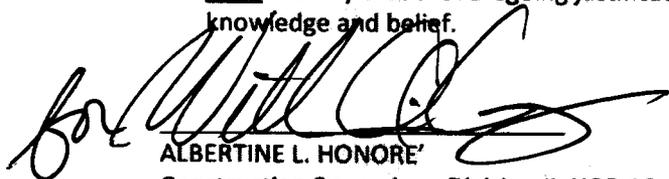
13. **Approvals in accordance with FAR 6.304**

a. **Contracting Officer's Certification (required):** I certify that the foregoing justification is accurate and complete to the best of my knowledge and belief.

  
WILLIAM A. GEARY  
Contracting Officer  
Biloxi VA Medical Center (NCO 16 – Biloxi)

18 Apr 14  
Date

b. **P&C:** I certify that the foregoing justification is accurate and complete to the best of my knowledge and belief.

  
ALBERTINE L. HONORE  
Construction Supervisor, Division II, NCO 16  
Biloxi VA Medical Center

18 Apr 14  
Date