

STATEMENT OF WORK

Heating, Ventilation, and Air Conditioning (HVAC) Replacement

1. **BACKGROUND:**

The current units have excited life expectancy and are operating unreliably. Each Next Generation Radar (NEXRAD) site has a Fibrebond manufactured concrete shelter building that has two 5 ton BARD wall HVAC units mounted side by side.

2. **GENERAL INTENTION:**

To remove and install two (2) wall mounted HVAC units and controls at three (3) sites.

3. **GENERAL REQUIREMENTS:**

The contractor shall provide all supervision, labor, tools, materials and equipment necessary to perform work as stated. All work and materials supplied shall be in accordance with these instructions, manufacturer's specification, all applicable federal, state, local, Occupational Safety and Health Administration (OSHA), U.S. Environmental Protection Agency (EPA), National Electrical Code (NEC) National Fire Protection Association (NFPA), building and facilities codes and criteria and accepted trade and industry standards.

The Contractor Shall:

3.1. Safely remove and properly dispose of the existing NEXRAD Bard units.

3.2. Furnish and install two Bard, or name-brand equivalent, wall-mounted AC units.

The following are equivalent salient characteristics for the name-brand or equal HVAC unit:

- Self-contained, air cooled, exterior wall mount unit
- 11.0 Energy Efficiency Ratio (EER)
- Electronically Commutated Motor (ECM) Fan Motors with Overload Protection
- Scroll Compressors with liquid line filter driers
- 5 ton, 230/208/3 phase 60 Hertz (HZ)
- Economizer controlled with dry bulb control
- Filter Pressure Switch
- Units must fit existing cast in place concrete openings without modifications. Building specs below.

Fibrebond manufactured concrete shelter building mounting specs:

- Supply duct to fit a 30" X 10 1/2" opening
- Return duct to fit a 30" X 16" opening.
- Distance between supply and return is 29 3/4"

3.3. Install a new Bard MC 4002 Lead/Lag controller or newer equivalent model for above units and integrate AC alarms with the NEXRAD alarm system at each site.

The following are equivalent salient characteristics for the name-brand or equal HVAC controller:

- Input power: 18 to 32VAC, 60/50Hz, power is supplied from A/C #1 and/or A/C #2.
- Isolation circuitry: no line or low voltage phasing required.

- Backup power: connection for -24VDC or -48VDC (-20 to -56V) maintains microprocessor operation, front panel indication, and alarm relay operation during commercial power outages.
- Digital display: 4-character LCD
- Temperature display: F or C
- HVAC outputs: Form A (NO) relays (1A @ 24VAC).
- Cooling control stages: 2 for each A/C unit (4 total).
- Locking feature - allows controllers to be “locked” so no unauthorized changes to programming can be made.
- Operating temperature range: 0 to 120F (-18 to 49C)
- Storage temperature range: -20 to 140F (-29 to 60C)
- Temperature accuracy: +/- 1F from 60-85F (16-30C) +/- 1% outside 60-85F
- Lead/lag changeover time: 0 to 30 days
- Timing accuracy: +/- 1%
- Inter-stage time delay: 10 seconds between stages
- Inter-stage differential: Adjustable – See Controller Programmable Features (Page 6).
- On-Off differential: – See Controller Programmable Features (Page 6).
- Cooling set point range: 65 to 90F (18 to 32C)
- Comfort setting-Cooling 72F, Heating 68F, for 1 hour
- Fire/smoke interface: standard NC circuit jumper, remove for connection to building system control, shuts down both A/C units immediately. Field supplied fire/smoke device must have normally closed (NC) dry contact rated at 2A 24VAC minimum. Shielded cable (22-gauge minimum) must be used and shield grounded to controller enclosure.
- Memory: Electrically Erasable Programmable Read-Only Memory (EEPROM) for set point and changeable parameters (maintains settings on power loss).
- Space temperature sensors: 1 local is standard, will accept up to 2 optional 35-foot remote sensors when multiple sensors are used, temperatures are averaged.
- LEDs for basic controller: Lead unit, Cooling stages 1 through 4, Heating stages 1 through 4.
- Six (6) Push-button controls: On/Off switch-Change lead unit-Increase and Decrease set points-Program/Save-Comfort.
- Controller Enclosure: 20-gauge pre-painted steel, 9.25"W x 13.50"H x 3.00"D, hinged cover, thirteen (13) .875" diameter electrical knockouts.

3.4. Verify proper system operations according to manufacturer specifications upon completion. Alarms must include:

- Compressor 1 Fail
- Compressor 2 Fail
- Dirty Filter Alarm- the contractor is to furnish and install the necessary cables and sensors for the BARD CMC-30 dirty air filter switch or newer equivalent model (unless the new unit has the filter pressure switch factory-installed).

4. **SUBMITTAL REQUIREMENTS:**

The contractor shall provide electronic copy of each required submittal in accordance with the below schedule:

Deliverable	Objective	Due	Deliver To
Work Schedule, with start and completion dates	Coordinate scheduling with National Weather Service (NWS) Technical POC (TPOC)	Within 10 days of awarded contract	TPOC, CO

Designation of on-site, job-site supervisor and contact information	Provide a Primary POC to NWS	Contract Award	TPOC, CO
Manufacturer Warranty Documentation	Warranty parts and labor	Upon acceptance of work	TPOC, CO
Safety Data Sheet (SDS)	List any hazardous material that will be used in performance of this contract. Ref. FAR 52.223-3 and FED-STD-313E	Within 10 days of awarded contract	TPOC, CO
Biobased Report (copy)	Report purchases of Biobased products in System for Award Management (SAM). Ref. FAR 52.223-2	Upon acceptance of work	TPOC, CO

5. LOCATION:

The project is to be completed on the below premises of the NWS, NEXRAD.

Battle Mountain Radar - NV 89820 - (40°44'22.96"N 116°48'10.23"W)

Phoenix Radar - 6933 South Sossaman Rd. Mesa, AZ 85242 - (33°17'21.66"N 111°40'11.88"W)

Flagstaff Radar -158 Forest Service 751b Rd, Happy Jack, AZ 86024 - (34°34'27.96"N 111°11'54.11"W)

Each site is NWS owned and secured. NWS will provide access.

6. PERIOD OF PERFORMANCE:

This is a mission critical acquisition. Work must begin within ten (10) business days of award of the purchase order; “Work” includes ordering parts and equipment not already in stock and necessary to perform the work.

On site work shall be completed within ninety (90) calendar days after receiving the Notice to Proceed. The contract’s ultimate completion date will be 240 days after contract award.

7. DEFINITIONS:

Where “as shown”, “as indicated”, “as detailed”, or words of similar import are used, it shall be understood that reference to the drawings accompanying this specification is made unless stated otherwise.

Where “as directed”, “as required”, “as permitted”, “approved”, “acceptance”, or words of similar import are used, it shall be understood that the direction, requirements, permission, approval, or acceptance of the CO is intended unless stated otherwise.

As used herein, “provided” shall be understood to mean “provided complete in place”, that is “furnished and installed”.

8. REGULAR WORKING HOURS:

Regular working hours are from 0700 to 1600 Monday through Friday except Federal holidays and other days specifically designated by the designated representative. “Regular Working Hours” means hours a

contractor can expect to be allowed to perform work on site, or be able to contact the office. Anything outside regular working hours must be done by permission of COR only.

Observance of Legal Holidays and Site Closure Information

The Contractor shall observe any federal holidays set forth in the Department of Labor Wage Determinations, if the holiday falls within the period of performance of this contract.

When any holiday falls on a Saturday, the preceding Friday is observed; when any holiday falls on a Sunday, the following Monday is observed. All personnel assigned to this contract shall limit their observation of holidays to those set forth above.

In each instance, the Contractor agrees to continue to provide sufficient personnel to perform requirements of any critical tasks already in operation or scheduled, and shall be guided by the instructions issued by the CO. In the event of a site dismissal or closure due to weather, emergency or other circumstances, the Contractor is instructed to contact the TPOC and CO for guidance.

9. CONDUCT OF WORK

The contractor must ensure employees are physically able to accomplish the work specified herein. All such employees working on government premises are subject to all applicable federal rules and regulations with regard to entering and leaving the premises and building(s). Any contractor employee who is considered incompetent, careless, insubordinate, unsuitable, or otherwise objectionable or whose continued employment is contrary to the public interest by the government's designated representative will be promptly removed from the contract work upon notification to the contractor by the CO that such conditions(s) described above exist. Only legal US citizens and immigrants are allowed to work on federal government construction projects.

As of January 1, 2026, all Department of Commerce-owned or leased facilities will only accept a REAL ID-compliant form of identification. Visitors with state-issued identification must now present a REAL ID or a different form of government-issued photo identification, such as: A passport, an Enhanced Driver's License, or a federal employee, military, or veteran identification card (this list is not all-inclusive). Additional information about the Department's implementation plan may be found at <https://www.commerce.gov/OSY/REAL-ID>.

10. SAFETY REQUIREMENTS:

All work shall be conducted in a safe manner and shall comply with station regulations and Department of Labor Standards. The government will not provide safety equipment to the contractor. The contractor's work site may be inspected during performance of the contract for EPA, OSHA and station safety violations. It will be the contractor's responsibility to rectify any violations immediately.

The contractor shall report any accidents that occur during the performance of the contract to the CO and TPOC, within 24-hours of an occurrence.

Provide and maintain fire extinguishers in construction areas. Flammable and Combustible Liquids: Store, dispense and use liquids in accordance with 29 CFR 1926, NFPA 241 and NFPA 30.

11. SECURITY REQUIREMENTS:

All personnel performing work under this contract shall be legal citizens or legal immigrants of the United States.

12. IDENTIFICATION OF CONTRACTOR VEHICLES:

Each Contractor provided vehicle shall show the Contractor's name that is clearly visible with the expectation of excavating equipment. Display a valid State license plate and safety inspection sticker, if applicable. Contractor vehicles operated on property shall be maintained in good repair.

13. CLEANUP:

All excess material must be disposed of according to all Federal and State laws and regulations. The premises shall be kept free at all times from accumulation of waste and/or rubbish resulting from the work. Upon completion of the work, daily, all debris, tools and surplus materials shall be removed and the entire area shall be left in a neat and clean condition. All debris, trash, waste and surplus material shall be properly disposed of off-site.

14. POINTS OF CONTACT:

All communications with the TPOCs and CO should include Primary TPOC, Mike Kent, along with the site specific POC. For example, communications for Battle Mountain, NV shall include Mike Kent *and* Stephan Ray.

****Contract Primary TPOC: Mike Kent, Senior Facilities Engineering Technician (SFET)**
Phone: (805) 885-0645
Email: mike.kent@noaa.gov

Battle Mountain, NV Site Specific POC: Stephan Ray
Phone: (775) 385-7210
Email: stephan.ray@noaa.gov

Flagstaff, AZ Site Specific Primary POC: David Olson
Phone: (928) 556-9161 extension 260
Email: david.olsen@noaa.gov

Phoenix/Mesa Az Site Specific Primary POC: Daniel Aguayo
Phone: (520) 500-7149
Email: daniel.aguayo@noaa.gov

Alternate POC for both Arizona Sites: Dion Parker
Phone: (702) 245-6256
Email: dion.parker@noaa.gov

15. INVOICING:

Upon completion and acceptance of the work, the invoice shall be submitted through the Invoice Processing Platform at www.ipp.gov. Invoices are submitted in arrears and paid after services are acceptable by the Government.