

Addendum One

USC Baruch – Repair/Replace HVAC Units

Project Number: CP00373307

August 26, 2013

General:

Bid closing date has been changed to September 4, 2013 at 1 PM, Hobcaw Barony Kimble Lodge Center
167 Pondpine Road, Georgetown SC 29440.

Mail and hand delivery bids before bid closing to the below address:

ATTN Paul Kenny
22 Hobcaw Road (Discovery Center)
Georgetown SC 29440

Specifications:

Refer to the attached specification Division 1 – General Requirements for corrections to system specifications requirements section, corrections are highlighted in red.

Attachments:

Pre Bid Sign In Sheets
Specifications –Division 1 –General Requirements

End of Addendum One

University of South Carolina

Belle W. Baruch Marine Field Laboratory

Georgetown, SC

H27-Z091 / CP00373307

UPDATED 26 AUGUST 2013

**Furnish and Install Two 10 Ton Rooftop Commercial
Heat Pump Package HVAC Units**

General Description – The University of South Carolina is accepting bids for the removal of two (2) existing 10-ton rooftop Air Conditioning Systems; and the installation of two (2) new 10-ton self-contained heat pump package rooftop HVAC units at the Belle W. Baruch Marine Field Laboratory on Hobcaw Barony in Georgetown, South Carolina. The current systems to be removed are two (2) 10 ton TRANE heat pump rooftop package units (System HP #2) and (System HP #6). The new heat pump systems must be rooftop mounted systems providing equal or greater service. See pictures below of current rooftop systems. The Contractor will be responsible for the following:

Removal:

- Two (2) existing 10 ton TRANE heat pump rooftop package units. Crane will be required for removal and installation.

Disconnection:

- Disconnect both units from existing power supply and existing duct work

Furnish and Install the following HVAC Systems:

- Two (2) 10-ton, 460V 3phase commercial roof-mounted heat pump package units with R410A refrigerant, new electric supplemental heat, 0-50% outside air damper. Connect to existing electrical service and ductwork.
- New matching curb adapter if needed
- Include installation of two lockable programmable thermostats.
- Connect to and test existing electronic smoke detection system in the air return ductworks for fire code compliance. Smoke detection systems **must shut entire HVAC system down** in the event smoke is detected.
- Include new condensate drain network to positively drain on existing roof system into roof scuppers.
- Include all labor, materials and equipment necessary to remove the existing systems, and install the new systems for complete start-up operation. Heavy equipment may be needed to remove existing units and install new units. Any cost associated with leasing, or renting equipment to include any cost associated with the licensed operator must be included within bid.
- Should a crane be used, the operator must be properly licensed and the crane must have all necessary documents to include recent load test in order to be used on government property.
- Include a one-year labor and parts service warranty.
- Include 5-year Manufacturer's compressor warranty on factory (parts only) in bid.
- Installation to be completed no later than one month after project awarded.
- The system must **meet or exceed** the manufacturer's cooling, heating, and ARI Sound Rating performance data as provided below.
- Units shall be equipped with corrosion resistant outside coil material or coils coated with factory applied anti-corrosive coating. Corrosion resistance must meet or exceed ASTM B117.85 standards. This is required by Santee Cooper for units located within ½ mile of ocean front.

- **Failure to include the system manufacturer's unit specification data sheet with bid will disqualify the bid altogether. The unit specifications shall include gross cooling capacity, EER, IEER, and COP ratings.**
- Contractor must provide three references on projects completed of similar complexity and magnitude.
- Contractor must possess all requisite certifications, licenses, and insurance to perform the work.
- The entire membrane roof system was replaced in July of this year and must not be damaged in any way.
- Contractor is responsible for any and all damages to sidewalks, building, roof, landscaping, etc. as a result of negligence.

Contractor is responsible for submitting all necessary paperwork to apply for utility rebates through the local Santee Cooper Office. This will include completing the manufacturers commissioning form or start-up form for each unit at the time of installation. Contractor responsible for contacting a Santee Cooper Trade Ally to give detailed instructions on rebates. Estimated rebates shown to be \$10-\$250/ per ton. All rebates to be rewarded back to the owner. See attached Santee Cooper contact information and Program Manual for more details along with link below.

Byron B. Colvis, PE

Santee Cooper – Commercial Energy Services

843-651-1598 ext. 3812

Fax: 843-651-7889

bbcolvis@santeecooper.com

<https://www.santeecooper.com/business/reduce-the-use-amp;-save/rebates-and-benefits.aspx>

Minimum System Specification Requirements:

NOTE: THE PROPOSED UNITS MUST MEET OR EXCEED THE MINIMUM SPECIFICATIONS OF THE EXISTING UNITS. SHOULD ANY INFORMATION CONTAINED IN THIS DOCUMENT CONFLICT WITH THE EXISTING UNITS SPECIFICATIONS THE CONTRACTOR HAS THE RESPONSIBILITY TO MEET OR EXCEED THE PERFORMANCE SPECIFICATIONS OF THE EXISTING UNITS.

Cooling Performance¹:

- Gross Cooling Capacity: 121,000
- COP/EER²: **MUST BE GREATER THAN 11.0**
- Nominal Airflow/ARI Rated Airflow (CFM): 4,000/3,200
- ARI Net Cooling Capacity: 113,000
- Integrated energy efficiency Ratio (IEER)³ **11.2**
- System Power (kW) 11.19

Heating Performance¹:

- High Temp. Btu Rating: 108,000
- COP: **3.3**
- System Power (kW) 9.59
- Low Temp. Btu Rating: 59,000
- ~~COP: **2.2**~~
- System Power (kW) 7.86

ARI Sound Rating (dB)³ : 88

Note:

- 1) EER is rated at ARI conditions and in accordance with DOE test procedures.
- 2) Integrated Energy Efficiency Ratio (IEER) rating in accordance with AHRI standard 210/240 or 360.
- 3) Sound Rating should be in accordance with ARI Standard 270 or 370.

Any contractors requesting to make a site visit may contact Paul Kenny at (843) 904-9028.



Existing 10 Ton HP #6 to be replaced



Existing 10 Ton HP #2 to be replaced



Aerial view of existing units within mechanical well of marine lab. Notice new membrane roof system.



BARUCH MARINE FIELD LABORATORY
REPAIR / REPLACE TWO (2) TEN TON HVAC UNITS
CP00373307
22 AUGUST, 2013 AT 1:00 PM

PRE-CONSTRUCTION MEETING SIGN IN SHEET

ATTENDEE'S NAME

COMPANY NAME & MAILING ADDRESS

Dale Coleman

Innovative Solutions

431 Mission Ct

1st mo SC 29063

PHONE# 803-939-4730

FAX# 803-939-4731

EMAIL dalc@innovativehvacr.com

Joe Rosier

ADVANCE HEATING & AIR

1630 UNIVERSITY PKWY

AIKEN, S.C. 29801

PHONE# 803-649-0309

FAX# 803-649-2194

EMAIL office@advanceairaiken.com

Roty DASH

RAWhide Heating and Air Service

1822 ST MATHEW'S church Rd.

EASTON SC 29044

PHONE# 803 608 0462 or 803 394 7704

FAX# 803 783 6023

EMAIL r.knight@hvac@yahoo.com

PHONE#

FAX#

EMAIL

Make sure to include your company name (on this form) as registered with LLR.



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PRE-CONSTRUCITON MEETING SIGN IN SHEET

ATTENDEE'S NAME

Jesse Blewer

COMPANY NAME & MAILING ADDRESS

Triad Mech.
3674 Old Charleston Rd.
Johns Island S.C 29455
PHONE# 843-209-7133
FAX# 843-763-3091
EMAIL J.Blewer@gmail.com.

PHONE#

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PRE-CONSTRUCTION MEETING SIGN IN SHEET

ATTENDEE'S NAME

WILLIE YOUNGAS

COMPANY NAME & MAILING ADDRESS

YOUNGAS HEATING & AIR INC.
8158 SCOTTS WOOD DRIVE
NORTH CHARLESTON S.C. 29418
PHONE# 843 - 207 - 0402 / 200-4817 cell
FAX# 843 - 207 - 0191
EMAIL YOUNGASHEATINGAIR@BellSouth.net

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Triad Mech.
3674 Old Charleston Rd.
Johns Island S.C 29455
PHONE# 843-209-7133
FAX# 843-763-3091
EMAIL J.Blewer@gmail.com.
Moody's Mech.
2910 Highmet Key St.
Georgetown SC 29440
PHONE# 843-546-8741
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EMAIL moodys381@SC.Twelve.com

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