NEW HANOVER COUNTY
REQUEST FOR QUALIFICATIONS
FRONT END ENGINEERING DESIGN STUDY
DETENTION CENTER SWITCHGEAR UPGRADES
RFQ # 20-0267
ADDENDUM #1

Q and A

1. Is the intent of this proposed Project limited to an engineering design study for needed upgrades of the PLCs, PLC software and relays installed in the 480V Zenith Switchgear only, or to also include in the study the other main switchgear and electrical power distribution equipment? If the latter, what other electrical power distribution equipment is to be included in the Scope?
   a. The scope is limited to the needed upgrades of the PLCs, PLC software and relays only.

2. Are existing facility record drawings and switchgear shop drawings available and can they be provided to respondents before Statements of Qualifications are due on December 13, 2019?
   a. Yes, attached.

3. Section 3 Item 3 on page 7 references internal quality control procedures. Can you provide any more specific details on what the county is looking for in the written quality control procedures?
   a. New Hanover County Property Management requests that the firm present their internal quality control procedures.
NOTES:
1.) INSTALL SHIELDED CABLES IN TO SEPARATE CONDUIT FOR PROPER OPERATION.
2.) PULL 20% MORE WIRES IN EACH CONDUIT FOR SPARES.
3.) ENGINE WIRING IS BASED ON CAT CIM, LSM, WITH CAT, DVR VOLTAGE REGULATOR SINCE ACTUAL ENGINE WIRING IS NOT AVAILABLE AT THIS TIME.
4.) DEPENDING ON DISTANCE BETWEEN GEZ SWITCHGEAR AND OTHER EQUIPMENT (GENERATORS, ATS'S, OR MAIN TANK) CUSTOMER MAY CONSIDER USING LARGER GAUGE WIRE TO PREVENT A SIGNIFICANT DROP IN VOLTAGE SIGNALS.

PRELIMINARY BLOCK WIRING DIAGRAM ONLY NOT CERTIFIED FOR CONSTRUCTION.
OUTLINE AND PUNCHING HINTS:
1. Lightning arresters shall not permit the entrance of a rod having a diameter greater than 3/4 inch.
2. Rod insulators used and from ground to the top should be: 40' L.
3. Gunns shall be permitted with rust-resistant and painted with two coats of zinc oxide paint.
4. Cabinet to be R-120 Gal. m, 3, 3, 2 and 4 cm. Formed steel.
5. U.L. marked plates to be provided for front and rear of each enclosure.
6. Sill cut-off switch should be provided with a cover for front and rear of each enclosure.
7. Each section shall be labeled with a 2 x 4 wooden sign on front and rear of each enclosure.
8. Switchgear to be of NO [1] construction and shall be listed under UL, UL, [1].
10. All breakers shall be mounted inside the door.
11. All buses 600 V or more shall have rubber jointing and shall be of 900 MCM.
12. All switchgear shall be labeled "service entrance equipment." Equipment to ground for bonded equipment shall be provided and utility conductors to be labeled "service disconnect."
NOTES:
1. THIS DRAWING SERVES AS A VISUAL AID FOR SECTIONS INTERCONNECTED PLUGS.
   FOR COMPLETE WIRING DETAIL REFER TO EACH PANEL'S WIRING DIAGRAM.
2. DEPENDING ON THE SECTION'S POSITION, EITHER FEMALE OR MALE SYSTEM PLUG #1 MAY BE
   REQUIRED FOR PHYSICAL LOCATION REFER TO THE OUTLINE DRAWING.

CERTIFIED FOR CONSTRUCTION

O&M ISSUE

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TITLE: GCZT 100 CONTROL PANEL
INTERNAL PLUGS LAYOUT

FIRST SHEET
1/18/03

SCALE: NONE
SHEET 1 OF 1
NOTES:
1. THIS DRAWING SHOWS AS A VISUAL AIDS FOR SECTIONS IN CONNECTION PLUGS.
   FOR COMPLETE WIRING, REFER TO EACH PANEL'S WIRING DIAGRAM.
2. SCHEMATIC ON THIS DRAWING FEMALE OR MALE SYSTEM PLUG #1 MAY BE
   RECOMMENDED FOR PHYSICAL LOCATION, REFER TO THE OUTLINE DRAWING.