



# CITY OF HOUSTON

Administration and Regulatory Affairs Department  
Strategic Purchasing Division

**Annise D. Parker**  
Mayor

Calvin D. Wells, Deputy Director  
City Purchasing Agent  
P.O. Box 1562  
Houston, Texas 77251-1562

F. 832.393.8755  
<https://purchasing.houstontx.gov>

May 13, 2013

**Subject:** Letter of Clarification No. 2 to Invitation to Bid No. S50-C24542 to Remove Existing Oil Circuit Breakers and Associated Equipment and Furnish and Install New Gas Circuit Breakers and Associated Equipment for the Public Works and Engineering Department

**To:** All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To revise Section "B" Scope of Work/Technical Specifications and respond to questions posed by perspective bidders:**

- 1) Remove Page No. 11 of 41 and replace with Page No. 11 of 41 marked, REVISED 5/10/2013.
- 2) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

**Question No 1:** Can the University of Houston's Terms and Conditions be substituted for the City's General Terms and Conditions?

**Answer:** No.

**Question No. 2:** Can the bid due date be extended to 5/30/2013?

**Answer:** No.

**Question No. 3:** Is it the City's intent to replace the concrete equipment foundations, anchor bolts, conduits, primary cabling or tubing for the new GCB's or modify the existing?

**Answer:** See Page No. 11 of 41, Scope of Work Sections 2.2 and Page No. 12 of 41, Section 2.7.

**Question No. 4:** Per the Contractor's Questionnaire, the Contractor is required to have removed, furnished and installed oil and gas circuit breakers. Can this requirement be changed to the Contractor must have worked in 138KV substation yards with associated equipment and has worked with CPE (RTO) to perform and confirm all required switching. Please note that the requirement is singled out to one piece of equipment and there is multiple equipment and tasks involved in a substation yard.

**Answer:** See Page No. 4 of 41, Bid Document, Section A, Quality and Workmanship.

*Partnering to better serve Houston*

**Letter of Clarification No. 2 Invitation to Bid No. S50-C24542  
Remove Existing Oil Circuit Breakers and Associated Equipment and Furnish and Install  
New Gas Circuit Breakers and Associated Equipment  
for the Public Works and Engineering Department**

**Question No. 5:** Per the Scope of Work (2.2), it is required of the Contractor to replace the control wiring from the GCB's to the 138KV Relay Room. Please note that the existing conduit duct bank may not allow us to remove the conductors. Normally when the Contractor is to reuse existing, the Owner will include an Extra Unit Price by the foot to remove and install conduit duct bank either direct buried or concrete encased. This is an unknown to the Contractor. Please clarify?

**Answer:** See Page No. 11 of 41, as per the Scope of Work, Section 2.2, the Contractor is required to include the price in the installation cost of any replacement conduit duct bank (turn key).

**Question No. 6:** Per the Scope of Work (2.6), it is required of the Contractor to perform an Arc Flash study on all equipment listed within the contract. Is the Owner/Engineer looking for the manufacturer of the GCB to provide documentation that this study has been performed at the factory level and stickers indicating the Cal-Rating are attached to the equipment before delivery to the job site? Please clarify?

**Answer:** No. See Page No. 12 of 41, Section 2.6, of the Scope of Work.

**Question No. 7:** Is there any training required for the GCB's? Please clarify?

**Answer:** The Scope of Work requires complete overview and the GCB manufacturer's recommended training.

**Question No. 8:** Can more than one OCB be removed at the same time and is it the Owner's intent to run the facility on one primary substation transformer to accomplish this task?

**Answer:** Yes, if Centerpoint approves. The duration must be as short as possible.

**Question No. 9:** Please clarify what "dispose for green credits" means?

**Answer:** Require nebt removed. See the revised Page No. 11 of 41 marked, REVISED 5/10/2013.

**Question No. 10:** In the job scope, the term "Associated Apparatus" is referenced. As I see it, the equipment to be supplied and replaced are the 12, 138kV circuit breakers and all wiring back to the relay building. Does associated equipment include the 138kV jumpers to the switches and t/or the 138kV switches as well? If so, what is the desired size and amperage rating of the jumpers and switches if they are to be replaced?

**Answer:** See Page No. 11 of 41, Section 2.2 and Page No. 12 of 41, Section 2.7, of the Scope of Work and contact Centerpoint for direction.

**Question No. 11:** Surge arrestors are mentioned. Are these 138kV free-standing arrestors? Do you have any specifications or drawings on these arrestors?

**Letter of Clarification No. 2 Invitation to Bid No. S50-C24542  
Remove Existing Oil Circuit Breakers and Associated Equipment and Furnish and Install  
New Gas Circuit Breakers and Associated Equipment  
for the Public Works and Engineering Department**

**Answer:** Centerpoint Energy CNP Technical Specifications, Page No. 15 of 41, Section 7.4 will not apply to this scope of work. Contractor's should contact Centerpoint Energy CNP for additional information.

**Question No. 12:** Centerpoint specifies that all new installations (breakers, switches, jumpers, bus work) to their 138kV system be rated for 4000A. The CTs specified for the new breakers are MR 3000:5. Should they be MR 4000:5 CTs, or will MR 3000:5 be sufficient?

**Answer:** The ratings shall be as stated on Page No. 12 of 41, Section 2.7 of the Scope of Work and Page Nos. 14 & 15 of 41, of Centerpoint Energy CNP's Technical Specifications.

**Note: No further questions will be accepted after the publication of this Letter of Clarification.**

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

*Arturo Lopez*

Arturo Lopez  
Senior Procurement Specialist  
832-393-8731

Attachment: Revised Page No. 11 of 41.

**Letter of Clarification No. 2 Invitation to Bid No. S50-C24542  
Remove Existing Oil Circuit Breakers and Associated Equipment and Furnish and Install  
New Gas Circuit Breakers and Associated Equipment  
for the Public Works and Engineering Department**

**SECTION B  
SCOPE OF WORK / SPECIFICATIONS**

**REVISED 5/10/2013**

**PART I**

**1.0 SCOPE OF WORK FOR LINE ITEM NOS. 1, 3 & 4 PER BID GROUP:**

1.1 **Item No. 1** *The Contractor shall be required to provide all supervision, labor, materials, equipment, tools, transportation and ancillary items necessary to remove and properly dispose, twelve existing oil circuit breakers (OCB's) and associated equipment, four each at the 69<sup>th</sup> Street Wastewater Treatment Plant (69<sup>th</sup> WWTP) located at, 2525 S/SGT Macario Garcia Drive, Southeast Water Purification Plant (SEWPP) located at, 3100 Genoa Red Bluff and the East Water Purification Plant (EWPP) located at, 2300 Federal Road, Houston, Texas.*

1.2 **Item No. 3** The Contractor shall be required to install twelve gas circuit breakers (GCB's) and associated equipment, four each at the 69<sup>th</sup> Street Wastewater Treatment Plant (69<sup>th</sup> WWTP) located at, 2525 S/SGT Macario Garcia Drive, Southeast Water Purification Plant (SEWPP) located at, 3100 Genoa Red Bluff and the East Water Purification Plant (EWPP) located at, 2300 Federal Road, Houston, Texas, in strict accordance with the **manufacturer's recommended installation methods** and in accordance with applicable federal, state and local codes and regulations.

1.3 **Item No. 4** The Contractor shall be required to furnish the final Operating and Maintenance (O & M) manuals and revised final project drawings in strict accordance with the scope of work/specifications.

**2.0 GENERAL SCOPE OF WORK FOR BID LINE ITEM NO. 2 PER BID GROUP (See Part II for Technical Specifications)**

2.1 The Contractor shall be required to furnish twelve gas circuit breakers (GCB's) and associated equipment, four each at the aforementioned facilities in strict accordance with the scope of work/specifications herein.

2.2 The Contractor shall be required to provide a "Turn-key" job. The new gas circuit breakers must be installed with no/minimal modifications to the existing infrastructure. All control wire shall be replaced back to the 138KV Relay Room. If additional conduit needs to be provided or any minimal modification required to install the new gas circuit breakers to the existing infrastructure, this shall be the responsibility of the Contractor with no additional cost to the City.

2.3 All work shall be completed in strict accordance with federal, state and local regulations, laws and codes. In addition, the Contractor shall be required, at its own expense, to secure approval of the installation drawings/plans from the City of Houston Public Works and Engineering Department Wastewater and Drinking Water Operations.

2.4 The three plant facilities shall maintain normal operations at all times. The OCB's will be replaced as directed by the City of Houston.