



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 16, 2012

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S50-C24253 to Furnish and Install a Mobile Generator System and Associated Equipment for the Houston Airport System.

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 pages 11, 15, 16 & 17 of 27 and replace with pages 11, 15, 16 & 17 of 27, marked **REVISED 5/15/2012.**
- 2.) The following questions and City of Houston response are hereby incorporated and made a part of the Invitation to Bid:

Question No. 1 What is the actual standby power you need? The numbers in the specifications are not accurate, 270KW PRIME is not 350 STANDBY, it is 297KW STANDBY

Answer: The Contractor shall be required to provide and install a 350 KW generator as specified. (See the attached revised pages, 15, 16 & 17 of 27)

Question No. 2 Delivery in 30 days is impossible, we are a Tradewinds dealer and according to the factory, delivery will be 8-12 weeks.

Answer: See the attached revised page 11 of 27.

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.

Partnering to better serve Houston

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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

Attachments: Revised pages 11, 15, 16 & 17 of 27.

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performance, materials, processes, or articles specified. DETERMINATION AS TO WHETHER THE ITEM (S) BID IS (ARE) EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

3.0 Brand Name or Trade Name:

3.1 Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Contractors/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific exception is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

4.0 Performance Time:

4.1 *The work must be completed as expeditiously as possible within 84 calendar days after receipt of the purchase order. It shall be the Contractors responsibility to schedule and coordinate the work in such a manner as to complete the work within the specified time.*

5.0 Warranty:

5.1 The generator system shall be warranted against all defects in material and workmanship for a period of not less than **12 months** and shall cover 100 percent of parts and labor for the unit. If the manufacturer's standard warranty period exceeds 12 months then the standard warranty period shall be in effect.

5.2 The Contractor shall be required to make provisions to provide a delayed warranty start date for each system furnished to this specification. The warranty start date shall be effective the day the completed system is placed into service.

5.3 During the warranty period the Contractor shall be responsible for labor, materials, and other costs as outlined below associated with required warranty repair. It is the intent of this warranty that the contractor performs warranty repair work.

5.4 The Warranty work must be completed without cost to the City of Houston (City) or the Houston Airport (HAS) System within ten days after notification to vendor of equipment failure or faulty material. When extended warranties are available as standard, they must be included as a part of the bid for the benefit of the City or HAS. Any and all documents necessary to effect warranty must be properly applied for and submitted by the successful vendor. All freight charges to and from the vendor's repair facility for warranty repair and/or maintenance must be borne by seller during the warranty period.

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- 3.0 Two (2) Manual Transfer Switches:
 - 3.1 Product Reference: *Siemens, Model DTNF366R, or City Approved Equal.*
 - 3.1.1 The transfer switch must be a 600 AMP, Type 3R, 3-Pole, 4-Wire, 480-Volt with Cam-Lok Connectors.
 - 3.1.2 The Transfer Switch shall feature:
 - 3.1.2.1 Quick-make and break switching action.
 - 3.1.2.2 The switch must have highly visible ON/OFF indication.
 - 3.1.2.3 Handle shall be pad-lockable in the OFF position.
 - 3.1.2.4 The switch must meet UL 98 for switches and UL 50 for enclosures.
 - 3.1.2.5 The switch must meet NEMA Standard KS-1 for enclosed switches.
 - 3.1.2.6 The switch must meet NEC wire bending space requirements.
- 4.0 Two (2) Three-Phase Disconnect Features:
 - 4.1 Product Reference: *Siemens, Model HF366NR, or City Approved Equal.*
 - 4.1.1 Type VBII, 600 AMP, Type 3R.
 - 4.1.2 3-Phase, 480-Volt AC.
 - 4.1.3 The disconnect must meet UL 98 for switches and UL 50 for enclosures.
 - 4.1.4 The switch must meet NEMA Standard KS-1 for enclosed switches.
 - 4.1.5 The disconnect must meet NEC wire bending space requirements.
 - 4.1.6 The disconnect shall be rated 10,000 AIC as standard or 200,000 when protected by class R, T, or J fuses rated 600 AMP maximum.
 - 4.1.7 The disconnect shall have a 12X overload current rating exceeds 10X, industry standard.
- 5.0 *Application and Installation Guide EP Applications, Engine & Generator Sizing:***
 - 5.1 *C2008 / Approximate Efficiencies of Squirrel Cage Induction Motors****

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HP / KW Full-Load Efficiency:

5.1.1 5 to 7.5 4-6 0.83

5.1.2 10 7.5 0.85

5.1.3 15 11 0.86

5.1.4 20 to 25 15 to 19 0.89

5.1.5 30 to 50 22 to 37 0.90

5.1.6 60 to 75 45 to 56 0.91

5.1.7 100 to 300 74.6 to 224 0.92

5.1.8 350 to 600HP 261 to 448KW 0.93 efficiency

5.2 Efficiencies: The generator vault shall have three 100 HP, service factory 1.15 Design B motors. The motors shall be required to perform at 1,160 RPM, 60HZ, 3 phase-480V and 600 Amp main service at each facility.

5.3 The Generator shall be required to handle the PEAK load at start up

6.0 Literature:

The Contractor shall be required to provide two (2) complete sets of parts, service, operator's instructions and safety manuals with the generator system's DVD's or CD's are preferred.

7.0 Safety:

All equipment supplied must meet all current applicable City, HAS, State of Texas, and Federal safety regulations including OSHA requirements. The equipment must have all pertinent safety restraints, guards, lockouts, shutdowns, safety decals etc. for safe operation. A seat belt extender shall be provided with equipment having seat belts/restraints.

All components must be rated for maximum pressure and must meet all applicable safety requirements. If special safety instructions are required for operator's safety, the instructions must be provided with each unit at time of delivery. All parts which form part of the equipment must conform in design, strength and quality of material and workmanship to the highest standards of engineering practice.

8.0 Emissions:

8.1 The generator system's bid must be in full and complete compliance with all applicable pollution requirements and regulations in effect at the time of bid submittal. This includes but is not limited to standards established by the Environmental Protection Agency (EPA) and the Texas Natural Resource Conservation Commission (TNRCC).

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- 8.2 The City and HAS require that the generator system's bid be the lowest emission units, i.e. Nitrogen Oxides (Nox) and Fine Particulate Matter (PM) without increasing Hydrocarbons (HC), available on the market for the specified equipment. The emission standards established by the EPA must be considered only as minimum standards. In the absence of EPA standards or if California Air Resources Board (CARB) standards provide lower emissions, CARB standards will be considered as minimum if the specified generator system and any required fuel are available to the City or HAS. Federally Regulated engines must be covered by an EPA-issued Certificate of Conformity certifying the engine to be in compliance with federal emission standards and bidder shall provide the Certificate of Conformity with their bid or within three working days from the written request of the City or HAS. EPA emission label must be affixed to the vehicle and/or engine and be readily visible.
- 9.0 Training:
- 9.1 All mechanical equipment purchased by the City's Houston Airport System (HAS) shall include operator training.
- 9.5 The training shall be performance based to ensure that the participants will be able to safely and successfully operate the equipment. The Contractor shall be responsible for the content of the training.
- 9.3 The Contractor shall be required to provide three (3) separate training sessions for HAS personnel on specified equipment if requested by the using department and it will be completed within 30 days of delivery and acceptance at no additional cost to the City or HAS. HAS, at its discretion, may extend the time up to 90 Days. Each training session shall be from one (1) hour to two (2) eight-hour days as requested by the HAS using department. Training may contain various media but should always include hands on sessions. Training of HAS personnel may be videotaped. Attendance and evaluation sheets will be kept by the Houston Airport System.
- 9.4 The training will occur after the equipment is delivered to HAS. The HAS using department will advise the Contractor when and where the training will take place as well as the number of sessions. (Up to three sessions required to complete the training) Sessions may occur on different shifts.
- 9.5 The Contractor shall be required to provide manufacturer developed job safety analysis (JSA) documents to the owning organization (hard copy and CD). The document will be incorporated into the training sessions.

END OF SECTION

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