GREENVILLE UTILITIES COMMISSION

QUESTIONS AND ANSWERS FOR

RFB 21-60 FOR 800 kW PEAK SHAVING/STANDBY GENERATION SYSTEM

11/18/2021 at 3:00 PM (EDST)

1. Is there an owner's opinion of probable cost for the project?

   We are looking for a competitive bid from all of our bidders. Providing our opinion of cost might skew the process.

2. There is mention of geotechnical engineering in the specs (section 16.1). Has there been any soil analysis done in the past? Is there any more detail to this requirement?

   Section 17.1 – The vendor is responsible for determining if geotechnical engineering is required for engineering/designing the pads. If so, the vendor is responsible for soil testing/analysis.

3. The RFB mentions remediation of the site is the responsibility of the Materialman. Is there any existing conditions / known environmental issue that the Materialman should expect required remediation?

   The site was greenfield, new construction for our operation center. The location is in an existing parking lot. No remediation is expected and there are no environmental issues to my knowledge.

4. Please advise if the generator set will be required to have factory certified emissions for intended use (peak shaving / non-emergency) or will field verification be sufficient?

   Field verification is sufficient as long as it meets all requirements set forth in sections 3.0 and 10.5.

5. Please advise on the start time requirements for the generator set when used for standby. Is there a 10-second start requirement for life safety or similar loads?

   There is no life safety requirement.

6. Please advise on the expected block load pickup during a standby scenario.

   Up to 500kW.

7. There is mention of GUC removing the existing ground grid in Section 17.3, but also mentioned the Materialman is responsible for removal in 18.3. Please advise.

There is no existing ground grid at this site. Vendor responsible for Design and Installation of grounding system.

8. Please advise on concrete pad requirements (if any) for the 12kV Meter / Switchgear and the 12kV Pedestal as shown on the preliminary site plan.

   1000 KVA transformer, 12kV Pedestal, and 12 kV Meter/Switchgear are existing. No foundations are necessary.

9. What is the intended hours of operation per year?

   150-250 Hours per year for peak shaving

10. Can we propose a genset with a 1000kW rating?

    You may and list as an exception. However, we will not take the extra capacity into consideration when evaluating the price of the project.

11. Can you expand on the expected load duty cycle of the unit?

    For peak shaving, an average of 4 runs per month for 4 hours at 100% capacity. For standby, 1-week 24/7 at 100% capacity.

12. What will be the minimum load, average load, and max load the genset will experience and for how long?

    Minimum = no data, Average = 350 kW, Max = 800 kW. Site is planned for expansion, thus the wording "The project design shall incorporate means for potential future expansion of additional peak shaving/standby generation".

13. Would you evaluate a proposal for a genset with a 1000kW rating?

    Yes, but it will have to be price competitive with the 800kW gensets on competing bids, since the extra capacity is not needed at this time.

14. Would you evaluate a proposal for a 1000kW unit with a 12.47kV alternator to match the voltage downstream of the transformer? This would avoid the need for a 480/12470V transformer on site.

    No, the transformer is already onsite and installed.