

ADDENDUM NO. 2

18.1. Sheet R-163-H-2

- a. Replace the callout above Existing Switchgear Room 115 that reads “EXISTING AIR CONDITIONING UNIT AND DUCTWORK TO REMAIN” with the following callout:

“EXISTING AIR CONDITIONING SYSTEM, AIR HANDLING UNIT, AND DUCTWORK TO REMAIN.”

18.2. Specification 11910 Engine-Generators,

- a. Section 1-3.01. Drawings and Data. Add the following item to the data to be submitted:

“Based on the supplemental data for the 4.16kV motors included in Exhibit “E”, provide analysis for 4 load scenarios as identified by the City, to identify whether the group of engine-generators can successfully start the loads associated with specific pumps, as identified in the scenarios, or not.”

- b. Section 2-2. Performance and Design Requirements. Replace the sentence that reads “The engine-generators shall, at a minimum, meet the required Environmental Protection Agency (EPA) New Source Performance Standards emission regulations and shall be certified as such at the factory prior to shipping.” with the following sentence:

“The engine-generators shall, at a minimum, meet the Environmental Protection Agency (EPA) Tier II New Source Performance Standards and shall be certified as such at the factory prior to shipping.”

- c. Section 3.301. Performance Test. Replace the fourth paragraph that reads “Each unit shall be individually tested, consisting of repeated starts and stops, operation under the permanently installed load bank specified in section 16350 at the specified power rating and power factor for the duration listed below. After each unit has been individually tested, they shall all operate synchronously in parallel under the combined load of the permanent load bank and additional temporary load banks. The temporary load banks shall be sized to make-up the difference between the capacity of all the engine-generators at full load and the capacity of the permanent load bank, for the time durations listed below. Before each test, each engine shall be running at steady state conditions as determined by the instrument reading.” with the following paragraph:

“Each unit shall be individually tested, consisting of repeated starts and stops, operation under temporary load banks at the specified power rating and power factor for the duration listed below. After each unit has been individually tested, they shall all operate synchronously in parallel under the load of the temporary load banks. The temporary load banks shall be sized for the capacity of all the engine-generators at full load for the time durations listed below. Before each test, each engine shall be running at steady state conditions as determined by the instrument reading.”

- d. Section 3.301. Performance Test. After the fifth paragraph add the following paragraph:

“Each unit shall be individually tested under operation of the permanently installed load bank specified in Section 16350 by continuous operation at the following load steps and duration:

- **1500kW for 10 minutes**
- **2000kW for 10 minutes**
- **2500kW for 10 minutes”**

18.3. **INCLUDE: Prospective Bidder Questions and City of Milwaukee Responses**

18.4. **INCLUDE: Attachment associated with question #45 included in 18.3.**