



Water Department Emergency Generator Purchase Contract 10-09

Addendum #1 – Transfer Switch Information

February 22, 2010

Based upon questions received from numerous bidders, this addendum is intended to clarify the specifications for the manual transfer switches (MTS) and how the MTS will be integrated into the existing electrical system. The following Detailed Specifications are additions to the original Detailed Specifications.

DETAILED SPECIFICATIONS

III. Physical Specifications

5 Main Power Cables

5.2 Approved equals for type G or GGC power cord will be accepted. Technical cut sheets for the substitutions must be submitted with bid. City of Lebanon shall determine if the material is an acceptable equal based upon the information supplied with the bid.

6 Electrical Connections

6.2 Manual generator transfer switch shall be rated as follows:

6.2.1 Outdoor type 3R enclosure

6.2.2 UL listed as Service Equipment

6.2.3 Solid neutral.

6.2.4 Double throw with a center off position or similar construction that will prevent the paralleling of the generator with the utility system.

6.3 Integration of the MTS can be accomplished a variety of ways.

6.3.1 Existing self contained meter sockets (200 amps or less rated meter sockets that do not use Current Transformers), can be relocated lower and the MTS can be installed in the original meter socket location.

6.3.2 Existing self contained meter sockets can be replaced with an integrated meter socket with transfer switch. An example of this type of product can be found at the website <http://www.durhamcompany.com/products/generator-transfer-switch>.

6.4 Location Information

6.4.1 Generator #1 – 320 kW for South Wellfield

6.4.1.1 Electric Meter with Current Transformers

6.4.1.2 3 Wire, 480 Volts, Three phase service

6.4.1.3 400 Amp Main

6.4.1.4 Possible to locate MTS to the left of the CT cabinet, re-wire load side of CT's (left side) to the MTS, add new conductor from load side of CT's to the MTS. Will replace existing two CT's and two PT's (old metering standard) with three CT's (new standard) and remove PT's.

6.4.1.5 Pictures of Location



6.4.2 Generator #2 – 150 kW for Franklin Rd Booster Pump Station

6.4.2.1 Self Contained Meter

6.4.2.2 4 Wire, 277/480 Volt, Three phase service

6.4.2.3 225 Amp Main

6.4.2.4 Preferred method is to replace existing meter socket with an integrated meter socket with transfer switch, similar to the Durham equipment. Would allow the meter socket to be lowered and the MTS installed in the meter socket location.

6.4.2.5 Picture of Location



6.4.3 Generator #3 – 20 kW for Water Tower

6.4.3.1 Self Contained Meter

6.4.3.2 3 Wire, 120/240 Volt, Single phase service

6.4.3.3 200 Amp Main

6.4.3.4 Preferred method is to replace existing meter socket with an integrated meter socket with transfer switch, similar to the Durham equipment. Would allow the meter socket to be lowered and the MTS installed in the meter socket location.

6.4.3.5 Picture of Location

