Bid #1263 – ADDENDUM #2

The following are questions related to the Springfield Electric District Substation Bid #1263

1. The Specification calls for radiators to be in Segment 3 only, due to size we may need to add additional radiators into other segments, are there any segments where radiators cannot be placed or is there a particular reason for this requirement?

This question refers to putting radiators on just one long side of the transformer vs multiple sides. Gresham Smith is ok with radiators installed on both long sides of the transformer. The end segments (2 & 4) should be left open for cabinets, LTC, and other equipment. If you require more than segments 1 &3, please include that in your bid response.

2. The Specification is requesting a 40% overload for eight (8) hours, this is considered to be a long enough duty cycle that we would prefer to increase the base size of the transformer to ensure the overload does not impact the life of the transformer. How often is it expected that these overloads will occur? Is it seasonal, uncommon etc.?

The overload factor can be reduced to 20%. Due to proposed loading projections, increasing the size of the transformer should not be required.

3. Is there a loss evaluation cost of No Load and Load Losses?

Load, no-load losses at 50MVA for the 30/40/50 MVA transformers will be evaluated as follows:

No-Load Losses	Load Losses
$/KW 7,021	$/KW 3,544

The cost of losses for each transformer will be calculated by multiplying the appropriate dollars/kW values above by the guaranteed load losses at 55 degree C and no-load losses at 100% voltages. This cost will be added to the bid price for evaluation.

4. There is a seismic evaluation requirement for this transformer, is it required that we do this with an outside 3rd party or can we produce an internal report to satisfy this requirement?

If a manufacturer is able to self-certify the results, the client will accept vs. using a 3rd party. Any warranty related issues will be covered by the manufacturer.

5. According to IEEE 693-2018, the time history shake table tests are required only for bushings greater than 138 kV class and surge arresters with duty cycle 90 kV and above. Please accept for this transformer (HV 69 kV) the static analysis instead of the shake-table test required in Section 33 7300, paragraph 1.4-B.4.

If the vendor produces the documentation, we will review. At a minimum, the transformer will still be designed to a moderate qualification as the specifications lay out.

6. Please accept the LTC to be located also on segments 2 or 4, instead of required segment 1, as indicated in Section 33 7300, paragraph 1.11-D.10.

As pointed out in the comments from the other vendor, Section 1 & 3 mainly house the radiator and 2 and 4 house the LTC and control cabinets.