

Modify section 26 22 00 per the following instructions:

1. Changes are shown in **red**, using "Track Changes" function
2. Deletions are shown **struck through**
3. Additions are **underlined**
4. The remainder of section is unchanged.

Section affected:

26 22 00 LOW-VOLTAGE TRANSFORMERS

.01 General

- A. ~~As the Base Bid, provide~~ high efficiency copper-wound transformer(s) meeting US Department of Energy proposed Candidate Standard Level (CSL) 3 efficiency, with extremely low no load losses, similar to PowerSmiths "E-Saver-C3", Cutler-Hammer "E3", GE "QL Ultra Efficient", Mirus International Inc. Ultra, E-Factor E, or others as approved by Engineering Services. Specify a deduct alternate for copper-wound, 115C rise, K-4 rated standard TP-1 transformers.
- ~~1. Once bids have been received, the consultant shall perform a life-cycle cost analysis based upon loading profiles as agreed to with Engineering Services, according to the building occupancy type.~~
- ~~2.1.~~ Low-loss transformers shall be designed to an efficiency standard higher than NEMA TP-1, the lowest legal efficiency, for the following purposes:
- a. Delivering lowest life cycle cost according to the US Dept. of Energy
 - b. Contributing to LEED Energy & Atmosphere Credit 1 (Optimize Energy Performance)

END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) It has been determined through life cycle cost calculations on multiple projects that high efficiency transformers are a good investment with relatively short payback especially compared to the average life of the equipment.
- 2) All major manufacturers offer competing products to make the bidding competitive.