

QUESTIONS AND ANSWERS III
FOR #20-26 SUGG PARKWAY SUBSTATION STRUCTURES, EQUIPMENT,
AND FOUNDATION DESIGN
DUE JUNE 30, 2020 @ 4:00 PM (EDST)

Questions:

1. Are tubular steel manufacturers other than the ones on the provided list acceptable?
2. Regarding the H-Frame dead-end structures. Where did the new wind pressure and wind and ice case come from? This is what the design spec shows:

3.3.2 Climatological Loading

- Ice Loading: The Ice Loading Condition is 0.5 inch radial ice thickness, at 0 degrees F, with a wind pressure of 2.3 pounds per square foot (psf).
- Extreme Wind: The extreme wind condition shall be a 31 psf horizontal wind pressure, with no ice, at a temperature of 60 degrees F.

3. Regarding the H-Frame dead-end structures. What are the tension values for Extreme Wind and Ice and Wind load cases?

Answers:

1. Tubular steel manufacturers in the provided list are the only approved manufacturers for this bid.
2. The wind and ice loading in the Substation Structures, Equipment, and Foundation Design specification (3.3.2 attached above) is correct for substation structures. This is not the correct loading for the H-Frame structures. The H-Frame dead-end structures are considered the last structures of the transmission line. Therefore, these structures should be designed to the transmission line specification. See attachment labeled “Weather Loading Criteria” for H-Frame loading information.
3. Also attached are Sag-Tension data for the OHGW and Transmission conductors. These attachments have tension information for the 4 Weather Load Cases in question.