

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

Question:

Regarding the H-frames. Please clarify, I see that the tensions are given as 3230 lbs for the shield wires and 2275 lbs for the conductor wires. Are these unfactored tensions and load cases for NESC Medium, Extreme Wind (31 psf), and wind/ ice (2.3 psf and 0.5" ice)?

Answer:

These are unfactored load cases for NESC Medium. However, we do add extra wind and ice in our designs. See Below for more information.

NESC Extreme Wind: 120 mph (36.864 psf)

NESC Concurrent Ice and Wind: 40 mph (4.1 psf) and 1" ice