



K2 Engineering

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PLS-POLE XML File Description = C:\Data\116 foot pole.xml
 PLS-POLE XML File Version = 1.0
 Project Name = test
 Project Path = C:\pls\spole
 Project Title = test
 Project Notes = test
 File Creation Date = 8/15/2005
 Registered User Name = test
 User Name = test
 Origin Computer Name = test
 Program version = 7.30

Load Case Type = Vector
 Number of Load Cases = 15
 Number of Poles = 1
 Number of Pole Property Sets = 1
 Number of Tubular Davit Arms = 8
 Number of Tubular Davit Property Sets = 2
 Number of Tubular Cross Arms = 0
 Number of Tubular Cross Arm Property Sets = 0
 Number of Joints defined = 0
 Number of Baseplates defined = 0
 Number of Equipment Property Sets = 0
 Number of pieces of Equipment defined = 0

Steel Pole Data

| Pole Name | Property Set Name | Tip Joint | Base Joint | Base X Coord. (ft) | Base Y Coord. (ft) | Base Z Coord. (ft) | Inclin About X (deg) | Inclin About Y (deg) | Base Connection |
|-----------|-------------------|-----------|------------|--------------------|--------------------|--------------------|----------------------|----------------------|-----------------|
| 25050 | 25050 HYBRID | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Fixed |

Steel Pole Property Data

| Property Name | No. of Tubes | Pole Length (ft) | Default Embed. (ft) | Pole Shape | Pole Shape Base | Tip Dia. (in) | Base Dia. (in) | Pole Taper | Mod. of Elast Ovr (ksi) | Weight Dens Ovr (pcf) | Has Baseplate? |
|---------------|--------------|------------------|---------------------|------------|-----------------|---------------|----------------|------------|-------------------------|-----------------------|----------------|
| 25050 HYBRID | 3 | 116.50 | 0.00 | 12F | | 20.00 | 0.00 | 0.3050 | 29000. | 0.00 | False |

Tube Data

| Property Name | Tube Number | Tube Length (ft) | Tube Thick. (in) | Lap Length (ft) | Yield Stress (ksi) | Calc. Taper (in/ft) | Tube Weight (lbf) | Top Dia. (in) | Bot Dia. (in) | 1.5 Dia Lap Len (ft) | Lap Gap (in) | Mom Cap Ovr (ft-k) |
|---------------|-------------|------------------|------------------|-----------------|--------------------|---------------------|-------------------|---------------|---------------|----------------------|--------------|--------------------|
| 25050 HYBRID | 1 | 20.50 | 0.1875 | 0.00 | 65 | 0.30500 | 965 | 20.00 | 26.25 | 3.23 | 0.000 | 0.00 |
| 25050 HYBRID | 2 | 51.00 | 0.3125 | 5.25 | 65 | 0.30500 | 5923 | 26.50 | 42.06 | 5.18 | 0.000 | 0.00 |
| 25050 HYBRID | 3 | 50.25 | 0.4375 | 0.00 | 65 | 0.30500 | 11319 | 39.83 | 55.16 | 0.00 | 0.000 | 0.00 |

Tubular Davit Arm Data

| Davit Arm Name | Property Set Name | Attachment Label | Distance From Top (ft) | Azimuth (deg) |
|----------------|-------------------|------------------|------------------------|---------------|
| SWR | 25050 SW | 25050:A1 | 22.00 | 0 |
| SWL | 25050 SW | 25050:A1 | 22.00 | 180 |
| C1R | 25050 COND | 25050:A2 | 29.66 | 0 |
| C1L | 25050 COND | 25050:A2 | 29.66 | 180 |
| C2R | 25050 COND | 25050:A3 | 42.16 | 0 |
| C2L | 25050 COND | 25050:A3 | 42.16 | 180 |
| C3R | 25050 COND | 25050:A4 | 54.66 | 0 |
| C3L | 25050 COND | 25050:A4 | 54.66 | 180 |

Tubular Davit Arm Property Data

| Property Name | Steel Shape | Steel Shape-End | Wall Thick. (in) | Base Dia. (in) | Tip Dia. (in) | Arm Taper (in/ft) | Mod Of Elast (ksi) | Yield Stress (ksi) | Weight Dens Ovr (lb/ft^3) | # Geometry Points |
|---------------|-------------|-----------------|------------------|----------------|---------------|-------------------|--------------------|--------------------|---------------------------|-------------------|
| 25050 SW | 8T | | 0.1875 | 6.00 | 6.00 | 0.0000 | 29000 | 65 | 0.0 | 2 |
| 25050 COND | 8T | | 0.3125 | 11.00 | 7.00 | 0.4178 | 29000 | 65 | 0.0 | 2 |

Reactions At Pole Groundlines By Load Case

| Pole Label | Load Case Name | Long. (X) Shear (kips) | Trans. (Y) Shear (kips) | Vert. (Z) Force (kips) | Moment About X Axis (ft-k) | Moment About Y Axis (ft-k) | Moment About Z Axis (ft-k) |
|------------|-----------------|------------------------|-------------------------|------------------------|----------------------------|----------------------------|----------------------------|
| 25050 | NESC HEAVY | 0.00 | 23.89 | -79.78 | 1935.6 | 0.0 | 0.0 |
| 25050 | NU HEAVY ICE | 0.00 | 4.59 | -82.58 | 371.8 | 0.0 | 0.0 |
| 25050 | ASCE ICE/WIND | 0.00 | 18.91 | -70.18 | 1534.9 | 0.0 | 0.0 |
| 25050 | EX WIND | 0.00 | 52.31 | -43.12 | 4082.3 | 0.0 | 0.0 |
| 25050 | UNBALANCED ICE | -33.90 | 19.09 | -69.67 | 1543.8 | -2754.4 | 0.9 |
| 25050 | DEFLECTION | 0.00 | 1.52 | -38.82 | 119.5 | 0.0 | 0.0 |
| 25050 | CONSTRUCTION | -5.64 | 7.73 | -92.54 | 620.4 | -453.4 | 0.1 |
| 25050 | EIA | 0.00 | 53.26 | -40.75 | 4177.4 | 0.0 | 0.0 |
| 25050 | BROKEN SW | -5.57 | 19.81 | -69.71 | 1600.3 | -548.4 | -31.1 |
| 25050 | BROKEN COND | -14.53 | 19.59 | -69.70 | 1586.4 | -1133.8 | 157.9 |
| 25050 | NESC HEAVY 1 .. | 0.00 | 15.11 | -60.06 | 1417.7 | 0.0 | 0.0 |
| 25050 | NU HEAVY ICE .. | 0.00 | 2.30 | -58.60 | 439.9 | 0.0 | 0.0 |
| 25050 | ASCE ICE/WIND.. | 0.00 | 11.74 | -51.56 | 1138.5 | 0.0 | 0.0 |
| 25050 | EX WIND 1 SIDE | 0.00 | 38.31 | -34.81 | 3040.3 | 0.0 | 0.0 |
| 25050 | EIA 1 SIDE | 0.00 | 39.26 | -32.44 | 3135.7 | 0.0 | 0.0 |

Reactions At Tubular Davit Arm Bases By Load Case

| Davit Label | Load Case Name | Vertical Shear (kips) | Horizontal Shear (kips) | Axial Force (kips) | Vertical Moment (ft-k) | Horizontal Moment (ft-k) | Torsional Moment (ft-k) |
|-------------|-----------------|-----------------------|-------------------------|--------------------|------------------------|--------------------------|-------------------------|
| SWR | NESC HEAVY | 2.23 | 0.00 | 1.50 | -10.61 | 0.00 | 0.00 |
| SWR | NU HEAVY ICE | 3.46 | 0.00 | 0.30 | -15.58 | 0.00 | 0.00 |
| SWR | ASCE ICE/WIND | 2.43 | 0.00 | 1.32 | -11.43 | 0.00 | 0.00 |
| SWR | EX WIND | 0.59 | 0.00 | 1.83 | -3.45 | 0.00 | 0.00 |
| SWR | UNBALANCED ICE | 2.11 | 2.83 | 1.38 | -10.07 | -12.73 | 1.40 |
| SWR | DEFLECTION | 0.65 | 0.00 | 0.07 | -2.86 | 0.00 | 0.00 |
| SWR | CONSTRUCTION | 2.61 | 0.25 | 0.32 | -11.76 | -1.11 | 0.10 |
| SWR | EIA | 0.58 | 0.00 | 1.83 | -3.42 | 0.00 | 0.00 |
| SWR | BROKEN SW | 2.17 | 5.57 | 1.33 | -10.27 | -25.01 | 2.80 |
| SWR | BROKEN COND | 2.22 | 0.04 | 1.45 | -10.58 | -0.18 | 0.00 |
| SWR | NESC HEAVY 1 .. | 2.24 | 0.00 | 1.50 | -10.62 | 0.00 | 0.00 |
| SWR | NU HEAVY ICE .. | 3.45 | 0.00 | 0.33 | -15.59 | 0.00 | 0.00 |
| SWR | ASCE ICE/WIND.. | 2.43 | 0.00 | 1.32 | -11.44 | 0.00 | 0.00 |
| SWR | EX WIND 1 SIDE | 0.62 | 0.00 | 1.82 | -3.55 | 0.00 | 0.00 |
| SWR | EIA 1 SIDE | 0.61 | 0.00 | 1.82 | -3.52 | 0.00 | 0.00 |
| SWL | NESC HEAVY | 2.23 | 0.00 | -1.50 | -9.17 | 0.00 | 0.00 |
| SWL | NU HEAVY ICE | 3.46 | 0.00 | -0.29 | -15.30 | 0.00 | 0.00 |
| SWL | ASCE ICE/WIND | 2.43 | 0.00 | -1.32 | -10.17 | 0.00 | 0.00 |
| SWL | EX WIND | 0.59 | 0.00 | -1.83 | -1.64 | 0.00 | 0.00 |
| SWL | UNBALANCED ICE | 2.12 | -2.84 | -1.36 | -8.75 | 12.80 | -1.40 |
| SWL | DEFLECTION | 0.65 | 0.00 | -0.07 | -2.79 | 0.00 | 0.00 |
| SWL | CONSTRUCTION | 2.61 | -0.25 | -0.31 | -11.46 | 1.11 | -0.10 |
| SWL | EIA | 0.58 | 0.00 | -1.83 | -1.61 | 0.00 | 0.00 |
| SWL | BROKEN SW | 2.22 | -0.02 | -1.44 | -9.19 | 0.09 | 0.00 |
| SWL | BROKEN COND | 2.22 | -0.04 | -1.44 | -9.19 | 0.18 | 0.00 |
| SWL | NESC HEAVY 1 .. | 0.08 | 0.00 | 0.00 | -0.19 | 0.00 | 0.00 |
| SWL | NU HEAVY ICE .. | 0.06 | 0.00 | 0.00 | -0.14 | 0.00 | 0.00 |
| SWL | ASCE ICE/WIND.. | 0.06 | 0.00 | 0.00 | -0.14 | 0.00 | 0.00 |
| SWL | EX WIND 1 SIDE | 0.06 | 0.00 | 0.00 | -0.13 | 0.00 | 0.00 |
| SWL | EIA 1 SIDE | 0.05 | 0.00 | 0.00 | -0.12 | 0.00 | 0.00 |
| C1R | NESC HEAVY | 6.19 | 0.00 | 2.63 | -59.62 | 0.00 | 0.00 |
| C1R | NU HEAVY ICE | 7.17 | 0.00 | 0.71 | -67.41 | 0.00 | 0.00 |
| C1R | ASCE ICE/WIND | 5.67 | 0.00 | 2.10 | -54.71 | 0.00 | 0.00 |
| C1R | EX WIND | 2.57 | 0.00 | 4.25 | -27.68 | 0.00 | 0.00 |
| C1R | UNBALANCED ICE | 5.91 | 4.95 | 2.41 | -57.29 | -46.91 | 5.70 |
| C1R | DEFLECTION | 2.58 | 0.00 | 0.23 | -23.43 | 0.00 | 0.00 |
| C1R | CONSTRUCTION | 9.03 | 0.92 | 0.93 | -84.81 | -8.69 | 1.10 |
| C1R | EIA | 2.53 | 0.00 | 4.25 | -27.47 | 0.00 | 0.00 |
| C1R | BROKEN SW | 6.09 | 0.06 | 2.54 | -59.16 | -0.54 | 0.10 |
| C1R | BROKEN COND | 6.09 | 0.10 | 2.54 | -59.16 | -0.94 | 0.10 |
| C1R | NESC HEAVY 1 .. | 6.20 | 0.00 | 2.61 | -59.67 | 0.00 | 0.00 |
| C1R | NU HEAVY ICE .. | 7.16 | 0.00 | 0.76 | -67.41 | 0.00 | 0.00 |
| C1R | ASCE ICE/WIND.. | 5.68 | 0.00 | 2.09 | -54.73 | 0.00 | 0.00 |
| C1R | EX WIND 1 SIDE | 2.62 | 0.00 | 4.21 | -28.14 | 0.00 | 0.00 |
| C1R | EIA 1 SIDE | 2.59 | 0.00 | 4.22 | -27.93 | 0.00 | 0.00 |
| C1L | NESC HEAVY | 6.19 | 0.00 | -2.62 | -53.92 | 0.00 | 0.00 |
| C1L | NU HEAVY ICE | 7.17 | 0.00 | -0.70 | -65.89 | 0.00 | 0.00 |
| C1L | ASCE ICE/WIND | 5.67 | 0.00 | -2.09 | -50.13 | 0.00 | 0.00 |
| C1L | EX WIND | 2.56 | 0.00 | -4.25 | -18.04 | 0.00 | 0.00 |
| C1L | UNBALANCED ICE | 5.91 | -4.96 | -2.40 | -52.07 | 47.19 | -5.80 |
| C1L | DEFLECTION | 2.58 | 0.00 | -0.23 | -22.90 | 0.00 | 0.00 |
| C1L | CONSTRUCTION | 9.03 | -0.92 | -0.92 | -82.87 | 8.71 | -1.10 |
| C1L | EIA | 2.52 | 0.00 | -4.25 | -17.82 | 0.00 | 0.00 |
| C1L | BROKEN SW | 6.09 | -0.06 | -2.53 | -53.66 | 0.54 | -0.10 |
| C1L | BROKEN COND | 6.09 | -0.10 | -2.53 | -53.66 | 0.94 | -0.10 |
| C1L | NESC HEAVY 1 .. | 0.42 | 0.00 | -0.01 | -1.95 | 0.00 | 0.00 |
| C1L | NU HEAVY ICE .. | 0.31 | 0.00 | 0.00 | -1.44 | 0.00 | 0.00 |
| C1L | ASCE ICE/WIND.. | 0.31 | 0.00 | -0.01 | -1.43 | 0.00 | 0.00 |
| C1L | EX WIND 1 SIDE | 0.30 | 0.00 | -0.02 | -1.39 | 0.00 | 0.00 |
| C1L | EIA 1 SIDE | 0.27 | 0.00 | -0.02 | -1.25 | 0.00 | 0.00 |
| C2R | NESC HEAVY | 6.20 | 0.00 | 2.61 | -59.68 | 0.00 | 0.00 |
| C2R | NU HEAVY ICE | 7.17 | 0.00 | 0.71 | -67.41 | 0.00 | 0.00 |
| C2R | ASCE ICE/WIND | 5.68 | 0.00 | 2.08 | -54.74 | 0.00 | 0.00 |
| C2R | EX WIND | 2.60 | 0.00 | 4.23 | -27.96 | 0.00 | 0.00 |
| C2R | UNBALANCED ICE | 5.93 | 4.94 | 2.40 | -57.45 | -46.76 | 5.70 |
| C2R | DEFLECTION | 2.58 | 0.00 | 0.23 | -23.43 | 0.00 | 0.00 |

| | | | | | | | |
|-----|-----------------|------|--------|-------|--------|--------|--------|
| C2R | CONSTRUCTION | 9.03 | 0.91 | 0.92 | -84.81 | -8.66 | 1.10 |
| C2R | EIA | 2.57 | 0.00 | 4.23 | -27.77 | 0.00 | 0.00 |
| C2R | BROKEN SW | 6.10 | 0.05 | 2.52 | -59.20 | -0.48 | 0.10 |
| C2R | BROKEN COND | 6.10 | 0.10 | 2.52 | -59.20 | -0.93 | 0.10 |
| C2R | NESC HEAVY 1 .. | 6.21 | 0.00 | 2.59 | -59.74 | 0.00 | 0.00 |
| C2R | NU HEAVY ICE .. | 7.16 | 0.00 | 0.75 | -67.41 | 0.00 | 0.00 |
| C2R | ASCE ICE/WIND.. | 5.68 | 0.00 | 2.07 | -54.77 | 0.00 | 0.00 |
| C2R | EX WIND 1 SIDE | 2.65 | 0.00 | 4.20 | -28.41 | 0.00 | 0.00 |
| C2R | EIA 1 SIDE | 2.62 | 0.00 | 4.20 | -28.22 | 0.00 | 0.00 |
| C2L | NESC HEAVY | 6.20 | 0.00 | -2.60 | -54.01 | 0.00 | 0.00 |
| C2L | NU HEAVY ICE | 7.17 | 0.00 | -0.70 | -65.90 | 0.00 | 0.00 |
| C2L | ASCE ICE/WIND | 5.68 | 0.00 | -2.08 | -50.19 | 0.00 | 0.00 |
| C2L | EX WIND | 2.59 | 0.00 | -4.23 | -18.38 | 0.00 | 0.00 |
| C2L | UNBALANCED ICE | 5.93 | -4.94 | -2.39 | -52.25 | 47.05 | -5.70 |
| C2L | DEFLECTION | 2.58 | 0.00 | -0.23 | -22.90 | 0.00 | 0.00 |
| C2L | CONSTRUCTION | 9.03 | -0.91 | -0.91 | -82.89 | 8.68 | -1.10 |
| C2L | EIA | 2.56 | 0.00 | -4.23 | -18.17 | 0.00 | 0.00 |
| C2L | BROKEN SW | 6.10 | -0.05 | -2.52 | -53.72 | 0.48 | -0.10 |
| C2L | BROKEN COND | 5.91 | -14.59 | -2.03 | -52.46 | 139.01 | -17.00 |
| C2L | NESC HEAVY 1 .. | 0.42 | 0.00 | -0.01 | -1.95 | 0.00 | 0.00 |
| C2L | NU HEAVY ICE .. | 0.31 | 0.00 | 0.00 | -1.44 | 0.00 | 0.00 |
| C2L | ASCE ICE/WIND.. | 0.31 | 0.00 | -0.01 | -1.43 | 0.00 | 0.00 |
| C2L | EX WIND 1 SIDE | 0.30 | 0.00 | -0.02 | -1.39 | 0.00 | 0.00 |
| C2L | EIA 1 SIDE | 0.28 | 0.00 | -0.01 | -1.26 | 0.00 | 0.00 |
| C3R | NESC HEAVY | 6.21 | 0.00 | 2.58 | -59.75 | 0.00 | 0.00 |
| C3R | NU HEAVY ICE | 7.17 | 0.00 | 0.70 | -67.41 | 0.00 | 0.00 |
| C3R | ASCE ICE/WIND | 5.69 | 0.00 | 2.06 | -54.79 | 0.00 | 0.00 |
| C3R | EX WIND | 2.65 | 0.00 | 4.20 | -28.33 | 0.00 | 0.00 |
| C3R | UNBALANCED ICE | 5.96 | 4.91 | 2.38 | -57.73 | -46.49 | 5.70 |
| C3R | DEFLECTION | 2.58 | 0.00 | 0.23 | -23.43 | 0.00 | 0.00 |
| C3R | CONSTRUCTION | 9.03 | 0.91 | 0.91 | -84.82 | -8.59 | 1.00 |
| C3R | EIA | 2.61 | 0.00 | 4.20 | -28.15 | 0.00 | 0.00 |
| C3R | BROKEN SW | 6.11 | 0.04 | 2.51 | -59.26 | -0.39 | 0.00 |
| C3R | BROKEN COND | 6.11 | 0.09 | 2.50 | -59.25 | -0.80 | 0.10 |
| C3R | NESC HEAVY 1 .. | 6.22 | 0.00 | 2.56 | -59.82 | 0.00 | 0.00 |
| C3R | NU HEAVY ICE .. | 7.17 | 0.00 | 0.73 | -67.41 | 0.00 | 0.00 |
| C3R | ASCE ICE/WIND.. | 5.69 | 0.00 | 2.05 | -54.82 | 0.00 | 0.00 |
| C3R | EX WIND 1 SIDE | 2.69 | 0.00 | 4.17 | -28.73 | 0.00 | 0.00 |
| C3R | EIA 1 SIDE | 2.66 | 0.00 | 4.18 | -28.55 | 0.00 | 0.00 |
| C3L | NESC HEAVY | 6.21 | 0.00 | -2.58 | -54.15 | 0.00 | 0.00 |
| C3L | NU HEAVY ICE | 7.17 | 0.00 | -0.70 | -65.91 | 0.00 | 0.00 |
| C3L | ASCE ICE/WIND | 5.69 | 0.00 | -2.06 | -50.28 | 0.00 | 0.00 |
| C3L | EX WIND | 2.64 | 0.00 | -4.20 | -18.81 | 0.00 | 0.00 |
| C3L | UNBALANCED ICE | 5.96 | -4.91 | -2.37 | -52.57 | 46.77 | -5.70 |
| C3L | DEFLECTION | 2.58 | 0.00 | -0.23 | -22.90 | 0.00 | 0.00 |
| C3L | CONSTRUCTION | 9.04 | -0.91 | -0.90 | -82.92 | 8.61 | -1.00 |
| C3L | EIA | 2.60 | 0.00 | -4.20 | -18.62 | 0.00 | 0.00 |
| C3L | BROKEN SW | 6.11 | -0.04 | -2.50 | -53.82 | 0.39 | 0.00 |
| C3L | BROKEN COND | 6.11 | -0.09 | -2.50 | -53.82 | 0.80 | -0.10 |
| C3L | NESC HEAVY 1 .. | 0.42 | 0.00 | -0.01 | -1.95 | 0.00 | 0.00 |
| C3L | NU HEAVY ICE .. | 0.31 | 0.00 | 0.00 | -1.44 | 0.00 | 0.00 |
| C3L | ASCE ICE/WIND.. | 0.31 | 0.00 | 0.00 | -1.43 | 0.00 | 0.00 |
| C3L | EX WIND 1 SIDE | 0.30 | 0.00 | -0.01 | -1.40 | 0.00 | 0.00 |
| C3L | EIA 1 SIDE | 0.28 | 0.00 | -0.01 | -1.27 | 0.00 | 0.00 |

Steel Pole Usage Summary

| Pole Name | Load Case Name | Segment Number | Maximum Usage (%) | Weight (lbf) |
|-----------|----------------|----------------|-------------------|--------------|
| 25050 | EIA | 18 | 98.07 | 18207 |

Summary Of Steel Pole Usages By Load Case

| Load Case Name | Pole Name | Segment Number | Maximum Usage (%) |
|----------------------|-----------|----------------|-------------------|
| NESC HEAVY | 25050 | 18 | 37.56 |
| NU HEAVY ICE | 25050 | 18 | 8.97 |
| ASCE ICE/WIND | 25050 | 18 | 30.06 |
| EX WIND | 25050 | 18 | 76.20 |
| UNBALANCED ICE | 25050 | 28 | 57.17 |
| DEFLECTION | 25050 | 18 | 3.06 |
| CONSTRUCTION | 25050 | 18 | 16.64 |
| EIA | 25050 | 18 | 98.07 |
| BROKEN SW | 25050 | 18 | 33.69 |
| BROKEN COND | 25050 | 18 | 37.09 |
| NESC HEAVY 1 SIDE | 25050 | 18 | 33.78 |
| NU HEAVY ICE 1 SIDE | 25050 | 15 | 17.37 |
| ASCE ICE/WIND 1 SIDE | 25050 | 18 | 28.02 |
| EX WIND 1 SIDE | 25050 | 18 | 60.75 |
| EIA 1 SIDE | 25050 | 18 | 78.77 |

Summary Of Maximum Usages By Load Case

| Load Case Name | Element Name | Element Type | Maximum Usage (%) |
|----------------------|--------------|---------------|-------------------|
| NESC HEAVY | SWR | Tubular Davit | 40.03 |
| NU HEAVY ICE | SWR | Tubular Davit | 58.01 |
| ASCE ICE/WIND | SWR | Tubular Davit | 43.02 |
| EX WIND | 25050 | Steel Pole | 76.20 |
| UNBALANCED ICE | SWR | Tubular Davit | 61.04 |
| DEFLECTION | C1R | Tubular Davit | 15.43 |
| CONSTRUCTION | C3R | Tubular Davit | 55.89 |
| EIA | 25050 | Steel Pole | 98.07 |
| BROKEN SW | SWR | Tubular Davit | 94.50 |
| BROKEN COND | C2L | Tubular Davit | 92.53 |
| NESC HEAVY 1 SIDE | SWR | Tubular Davit | 40.09 |
| NU HEAVY ICE 1 SIDE | SWR | Tubular Davit | 58.02 |
| ASCE ICE/WIND 1 SIDE | SWR | Tubular Davit | 43.04 |
| EX WIND 1 SIDE | 25050 | Steel Pole | 60.75 |
| EIA 1 SIDE | 25050 | Steel Pole | 78.77 |



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Vector Load Case Data

| Load Case Name | Dead Load Factor | Wind Area Factor | Safety Factor Poles | Wind/Ice Model | Trans. Wind Pr. (psf) | Long. Wind Pr. (psf) | Ice Thk. (in) | Ice Dens. (psf) | Temp (deg) | # Point Loads | Pole Defl Check | Pole Defl Limit (ft) |
|----------------------|------------------|------------------|---------------------|----------------|-----------------------|----------------------|---------------|-----------------|------------|---------------|-----------------|----------------------|
| NESC HEAVY | 1.50 | 1.00 | 1.00 | Wind on All | 10.0 | 0.0 | 0.50 | 56.0 | 0 | 10 | No Limit | 0.00 |
| NU HEAVY ICE | 1.10 | 1.00 | 1.00 | Wind on All | 0.0 | 0.0 | 1.00 | 56.0 | 0 | 10 | No Limit | 0.00 |
| ASCE ICE/WIND | 1.10 | 1.00 | 1.00 | Wind on All | 7.0 | 0.0 | 0.75 | 56.0 | 0 | 10 | No Limit | 0.00 |
| EX WIND | 1.10 | 1.00 | 1.00 | Wind on All | 40.7 | 0.0 | 0.00 | 56.0 | 0 | 10 | No Limit | 0.00 |
| UNBALANCED ICE | 1.10 | 1.00 | 1.00 | Wind on All | 4.4 | 0.0 | 0.50 | 56.0 | 0 | 10 | No Limit | 0.00 |
| DEFLECTION | 1.00 | 1.00 | 1.00 | Wind on All | 0.0 | 0.0 | 0.00 | 56.0 | 0 | 10 | No Limit | 0.00 |
| CONSTRUCTION | 1.50 | 1.00 | 1.00 | Wind on All | 3.5 | 0.0 | 0.00 | 56.0 | 0 | 10 | No Limit | 0.00 |
| EIA | 1.00 | 1.00 | 0.80 | Wind on All | 41.1 | 0.0 | 0.00 | 56.0 | 0 | 10 | No Limit | 0.00 |
| BROKEN SW | 1.10 | 1.00 | 1.00 | Wind on All | 4.4 | 0.0 | 0.50 | 56.0 | 0 | 10 | No Limit | 0.00 |
| BROKEN COND | 1.10 | 1.00 | 1.00 | Wind on All | 4.4 | 0.0 | 0.50 | 56.0 | 0 | 10 | No Limit | 0.00 |
| NESC HEAVY 1 SIDE | 1.50 | 1.00 | 1.00 | Wind on All | 10.0 | 0.0 | 0.50 | 56.0 | 0 | 6 | No Limit | 0.00 |
| NU HEAVY ICE 1 SIDE | 1.10 | 1.00 | 1.00 | Wind on All | 0.0 | 0.0 | 1.00 | 56.0 | 0 | 6 | No Limit | 0.00 |
| ASCE ICE/WIND 1 SIDE | 1.10 | 1.00 | 1.00 | Wind on All | 7.0 | 0.0 | 0.75 | 56.0 | 0 | 6 | No Limit | 0.00 |
| EX WIND 1 SIDE | 1.10 | 1.00 | 1.00 | Wind on All | 40.7 | 0.0 | 0.00 | 56.0 | 0 | 6 | No Limit | 0.00 |
| EIA 1 SIDE | 1.00 | 1.00 | 0.80 | Wind on All | 41.1 | 0.0 | 0.00 | 56.0 | 0 | 6 | No Limit | 0.00 |