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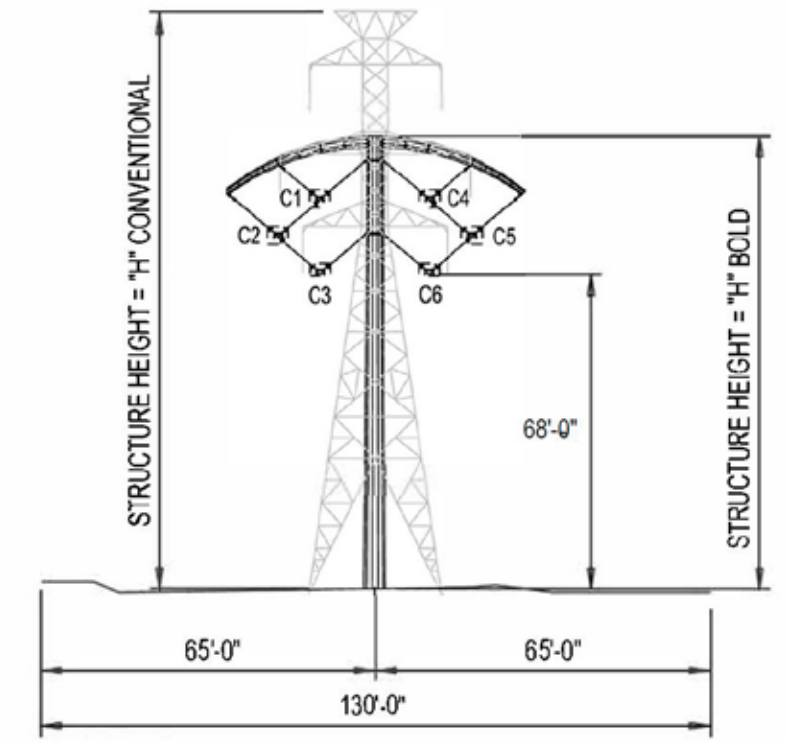
# 230-kV Specifications




| Phase Conductor Bundle | Phase Spacing (Feet) | Structure Height (Feet) | Structure Width (Feet) |
|---|---|---|---|
| 1-1590 kCM ACSR Falcon | **11/11/14.2** | **96** | **56** |
| 2-795 kCM ACSR Drake | **11/11/14.2** | **96** | **56** |
| 3-556.5 kCM ACSR Dove | **11/11/14.2** | **96** | **56** |

*based on 900’ span lengths

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# 230-kV Specifications

| Design | BOLD Designs | | |
|---|---|---|---|
| **Phase Conductor Bundle** | **1-1590 kCM ACSR Falcon** | **2-795 kCM ACSR Drake** | **3-556 kCM ACSR Dove** |
| **EACH CIRCUIT** | | | |
| Surge Impedance (Ω) | 320 | 224 | 196 |
| SIL (MW) | 165 | 236 | 270 |
| **BOTH CIRCUITS COMBINED** | | | |
| Resistive Loss[3] (MW/100 Miles) | 59 | 56 | 53 |
| Corona Loss[4] (MW/100 Miles) | 0.71 | 0.35 | 0.14 |
| Audible Noise @ROW Edge (dBA)[6][7] | 40 | 34 | 27 |
| Electric Field @ROW Edge (kV/m)[5][6] | 0.3 | 0.44 | 0.51 |
| Magnetic Field @ROW Edge (mG)[5][6] | 39 | 39 | 39 |

NOTES

(1) All options currently represent best available data for phase spacing and bundle diameters. Project-specific requirements may vary.
(2) All options consider 2 x 0.646" dia. OPGW as the shield wires.
(3) 230-kV BOLD line loss based on 500 MVA loading in each of two-circuits.
(4) Yearly average corona loss (rain 20%, snow 2%, fair 78% of time).
(5) Results are shown for "superbundle" phase arrangement (1-2-3; 1-2-3, top-to-bottom); other arrangements are possible.
(6) 230-kV Right-of-way (ROW) width is 130 feet.
(7) Mean value of audible noise in rain at sea level.

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