

70kV Double Circuit Inputs for Magnetic Field Software Calculation

SCE Fields Magnetic Field Software Modeling

Table 1 - Input Parameters

SCE Fields Magnetic Field Software Modeling		
Input Parameter		
Soil Resistivity	100	ohm-meter
Height for Field Calculation	3	feet
Step Size	5	feet
Max Horiz Dist from Reference	200	feet
Number of Phases	6	
Left Coordinate	30	feet
Right Coordinate	30	feet

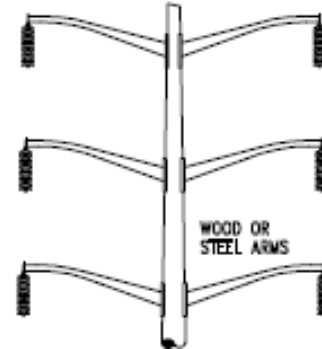


Table 2 – Conductor Data

Structure Configuration: Tubular Steel Pole V2S-G, PG&E CDS 051742 Tubular Steel Poles, PG&E Framing Dwg 3106492

Midspan Height (lowest conductor) = 29 feet, Current = 975 amps

Conductor Position: x = vertical, y = horizontal; each circuit is composed of three conductors, labeled A1, B1, C1 for Circuit #1 and A2, B2, C2 for Circuit #2.

Base Case

Optimal Phasing

Raise 10 feet

A1				A2				A1				C2				A1				C2			
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
-8.00	47.00	8.00	47.00	-8.00	47.00	8.00	47.00	-8.00	47.00	8.00	47.00	-8.00	57.00	8.00	57.00	-8.00	57.00	8.00	57.00	-8.00	57.00	8.00	57.00
B1				B2				B1				B2				B1				B2			
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
-8.00	38.00	8.00	38.00	-8.00	38.00	8.00	38.00	-8.00	38.00	8.00	38.00	-8.00	48.00	8.00	48.00	-8.00	48.00	8.00	48.00	-8.00	48.00	8.00	48.00
C1				C2				C1				A2				C1				A2			
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
-8.00	29.00	8.00	29.00	-8.00	29.00	8.00	29.00	-8.00	29.00	8.00	29.00	-8.00	39.00	8.00	39.00	-8.00	39.00	8.00	39.00	-8.00	39.00	8.00	39.00

Phase Conductor Data		
Phase ID		Phase Angle (Deg)
No.	Ckt	
1	A1	0
2	B1	120
3	C1	240
4	A2	0
5	B2	120
6	C2	240

Phase Conductor Data		
Phase ID		Phase Angle (Deg)
No.	Ckt	
1	C1	0
2	B1	120
3	A1	240
4	A2	0
5	B2	120
6	C2	240

Phase Conductor Data		
Phase ID		Phase Angle (Deg)
No.	Ckt	
1	C1	0
2	B1	120
3	A1	240
4	A2	0
5	B2	120
6	C2	240