

[DEMOSU] - 150 ft ss tower analysis - October 2004

MAST GEOMETRY

X, 4, 1, 0, 60, 17, 11, 20  
 , , , 60, 120, 11, 5, 10  
 , , 0, 120, 150, 5, 5, 5

PANEL PROPERTIES

0, 20, 1, 7, 0, 0, 0, 14, 0  
 20, 40, 2, , , , , 15  
 40, 60, , , , 13, , , 16  
 60, 70, 3, 8, 0, , , 17  
 70, 80, , , , 11, , , 19  
 80, 100, 4, , , , , 18  
 100, 120, 5, , , 10  
 120, 125, 6, 9, 0, , , 0  
 125, 150, , , , 12

MATERIAL TYPES

STD, 1, 1, 0, 10, 0, 0, 490 /LEG 0-20  
 , 2, , , 8 /LEG 20-60  
 , 3, , , 6 /LEG 60-80  
 XS, 4, , , 4 /LEG 80-100  
 , 5, , , 3 /LEG 100-120  
 STD, 6, , , 2.5 /LEG 120-150  
 , 7, , , 3 /DIAG 0-60  
 , 8, , , 1.5 /DIAG 60-120  
 L, 9, , , 1.75, 1.75, 0.1875 /DIAG 120-150  
 , 10, 2, , 2, 2, 0.125 /HOR 100 - 120  
 , 11, , , 1.75, 1.75, 0.125 /HOR 70 - 100  
 , 12, , , , 0.1875 /HOR 125 - 150  
 , 13, , , 2.5, 2.5, , 412 /EQ HOR 60  
 , 14, , , 2.5, 2, 0.1875, 490 /SUBHOR 10  
 , 15, , , 2, 2, /SUBHOR 30  
 , 16, , , 2, 2, 0.125 /SUBHOR 50  
 , 17, , , 1.75, 1.75 /SUBHOR 65,75-120  
 , 18, , , 2, 2, 0.1875 /EQ SUBHOR 30  
 , 19, , , 1.75, 1.75, 0.125, 625 /EQ SUBHOR 75  
 PL, 20, 1, , 2, 0, 0.1875, 490 /LADDER RAIL  
 SR, 21, , , 0.75, 0, 0 /LADDER RUNG  
 STD, 22, , , 4 /MTG PIPE - DISH  
 SR, 23, , , 5.3, , , 27 /DB230

LADDER GEOMETRY

0, 40, 16, 12, -8.7, 225, 135, 20, 21, 0  
 40, 100, , , , -5.2  
 100, 110, , , , -0.95  
 110, 120, , , , -0.57,45  
 120, 150, , , , 0.54

TRANSMISSION LINES

AH0.875, , 125, 1, -12.0, 45, 45 /TX for PL6F-21C  
 EWP180, , 90 /TX for HP2-180G  
 AH0.875, , 32, , , 315, 315 /TX for HP170-B72  
 , , , , 45, 45 /TX for UHP8-22  
 AH1.625, , 128, , , 225, 135 /TX for DB230  
 , , 45 /TX for DB230

MICROWAVE PARABOLIC ANTENNAS

STD, 125, 27, 6, 4.5, 45, 0  
 HP, 90, 90, 2, 6.7  
 , 32, 300, 6, 11, 315  
 , , 45, 8, , 45

OTHER MOUNTINGS

125, 22, 1, 6, 4.5, 45, 0, 90 /DISH MTG PIPE  
 90, , , 3 /DISH MTG PIPE  
 32, , , 6, , 315 /DISH MTG PIPE  
 , , , , 45 /DISH MTG PIPE  
 128,23, , 14, 9, 225 /DB230  
 45, , , 14.3 /DB230

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BARE - 100 mph wind AT AZIMUTH 0
WIND LOADING
0, 100, 0, 0, 56, 1, 1, 1, 1, 1, 1
suppress printing
8*0
BARE - 100 mph wind AT AZIMUTH 90
WIND LOADING
90, 100, 0, 0, 56, 1, 1, 1, 1, 1, 1
suppress printing
0, 1, 1, 1, 4*0
BARE - 100 mph wind AT AZIMUTH 180
WIND LOADING
180, 100, 0, 0, 56, 1, 1, 1, 1, 1, 1
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