

[DEMOGU] - 300 FT GUYED TOWER ANALYSIS - OCTOBER 2004

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mast geometry
d,3,0,0,120,2.5,2.5,1.25
x,3,0,120,160,,,1.666
d,3,0,160,260,,,1.25
x,3,0,260,300,,,1.666
panel properties
0,120,1,3,0,0,0,0,0
120,160,1,4,4
160,260,2,3,0
260,300,2,4,4
material types
sr,1,1,0,2.25,0,0,500           /legs
,2,,,2
,3,,, .75                       /diags
,4,,,1
,5,,, .5                         /ladder rungs
sch40,6,,,2.5,0,0,165          /safety rail
c,7,1,0,2,5, .125, .125        /tx support
sch40,8,1,0,12,0,0,100         /beacon
l,9,1,0,4,4, .25,500           /mw mount angle
sch40,10,,,4,0,0               /mw mount pipe
sch40,11,2,0,6,0,0,100         /dol
l,12,2,0,3.5,3.0, .25,500      /tr member @ EL. 280'
RHSS,13,1,0,2.875,0, .188      /pinwheel mount
sch40,14,1,0,2.5,0,0,165       /srl480
,15,1,0,1.5                     /srl420
ladder geometry
0,300,10,15, .625,180,90,0,5,6
0,300,26,45, .722,180,90,0,7,0 /tx support
transmission lines
ewp63,0,287,1,0.5,230,230
ewp63,0,272,2,0.3,180,90
ewp63,0,236,1,0.3,180,180
fh1.625,0,151,1,0.5,130,130
fh0.875,0,131,1,0.7,120,120
other mountings
272,9,2,3.0,0.83,300,30,0      /mw mount angle
287
272,10,1,8,2,350,0,90          /mw pipe
287
272,9,2,3, .83,60,150,0        /mw mount angle
236
272,10,1,6,2,110,0,90          /mw pipe
236
151,9,2,3, .83,180,90,0         /mw angle
,10,1,6,2,230,0,90             /mw pipe
131,10,1,4,2,230,0,90          /mw pipe
300,8,1,1,0,0,0,90             /beacon
140,12,2,14,1.8,120,30,0       /torsion resistors
5*,240,150
5*,0,90
280,4*,120,30
5*,240,150
5*,0,90
MICROWAVE PARABOLIC ANTENNAS
std,151,241,10.0,2.45,240,50
hp,236,105,10.0,2.45,120,50
,272,296,8.00,2.45,0,50
,272,105,10.0,2.45,120,50
std+r,287,296,10.0,2.45,0,50
GUY GEOMETRY
45,0,GS,0.4375,45,230,1.44,0,1.95,2,120,120
90,,,,90

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140,0,GS,0.5,140,,8.08,60,2.55,2,120,120
,120
185,0,GS,0.5,185,,1.44,0,2.55
230,,,0.625,230,,,,4.03
280,0,BS,0.75,280,,8.08,60,6.80,2,120,120
,120
Bare tower 100 mph wind at azimuth 0 deg
wind loading
0,100,0,0,56.2,1,1,1,1,1,1
suppress printing
8*0
Bare tower 100 mph wind at azimuth 90 deg
wind loading
90,100,0,0,56.2,1,1,1,1,1,1
suppress printing
1,0,1,1,4*0
Bare tower 100 mph wind at azimuth 180 deg
wind loading
180,100,0,0,56.2,1,1,1,1,1,1