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

MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	SUB DIVIDE	..ELEVATION OF.. BOTTOM	TOP	..FACE WIDTH AT.. BOTTOM	TOP	TYPICAL PANEL HEIGHT
X	4	0	120.000	150.000	5.000	5.000	5.00
X	4	1	60.000	120.000	11.000	5.000	10.00
X	4	1	0.000	60.000	17.000	11.000	20.00

PANEL PROPERTIES

BOTTOM ELEV ft	TOP ELEV ft	.....TYPE OF MATERIALS USED IN..... LEGS	DIAGS	HORIZ	INTRNL BRACING	SUB DIAGS	SUB HORIZ	GUSSET
125.000	150.000	6	9	12	0	0	0	0
120.000	125.000	6	9	0	0	0	0	0
100.000	120.000	5	8	10	0	0	18	0
80.000	100.000	4	8	11	0	0	18	0
70.000	80.000	3	8	11	0	0	19	0
60.000	70.000	3	8	0	0	0	17	0
40.000	60.000	2	7	13	0	0	16	0
20.000	40.000	2	7	0	0	0	15	0
0.000	20.000	1	7	0	0	0	14	0

MATERIAL TYPES

TYPE OF SHAPE	TYPE NO	NO OF ELEMENTS	ORIENT-ATION & deg	PROJECTION.ALONG VERT in	HORIZ in	THICK-NESS # in	DENSITY * pcf
STD	1	1	0.0	10.00	0.00	0.000	490.0
STD	2	1	0.0	8.00	0.00	0.000	490.0
STD	3	1	0.0	6.00	0.00	0.000	490.0
XS	4	1	0.0	4.00	0.00	0.000	490.0
XS	5	1	0.0	3.00	0.00	0.000	490.0
STD	6	1	0.0	2.50	0.00	0.000	490.0
STD	7	1	0.0	3.00	0.00	0.000	490.0
STD	8	1	0.0	1.50	0.00	0.000	490.0
L	9	1	0.0	1.75	1.75	0.188	490.0
L	10	2	0.0	2.00	2.00	0.125	490.0
L	11	2	0.0	1.75	1.75	0.125	490.0
L	12	2	0.0	1.75	1.75	0.188	490.0
L	13	2	0.0	2.50	2.50	0.188	412.0
L	14	2	0.0	2.50	2.00	0.188	490.0
L	15	2	0.0	2.00	2.00	0.188	490.0

L	16	2	0.0	2.00	2.00	0.125	490.0
L	17	2	0.0	1.75	1.75	0.125	490.0
L	18	2	0.0	2.00	2.00	0.188	490.0
L	19	2	0.0	1.75	1.75	0.125	625.0
PL	20	1	0.0	2.00	0.00	0.188	490.0
SR	21	1	0.0	0.75	0.00	0.000	490.0
STD	22	1	0.0	4.00	0.00	0.000	490.0
SR	23	1	0.0	5.30	0.00	0.000	27.0

& - With respect to vertical # - Web in WF,C & T sections
* - Flange thickness in WF,C & T sections

LADDER GEOMETRY
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..ELEVATION OF..		.....SIZE....		.....POSITION.....			...MATERIALS....		
BOTTOM	TOP	WIDTH	STEP	DIST	AZI	ORIENT	RAIL	RUNG	SAFE
ft	ft	in	in	* ft	deg	& deg			T-RAIL
120.000	150.000	16.00	12.00	0.54	45.00	135.00	20	21	0
110.000	120.000	16.00	12.00	-0.57	45.00	135.00	20	21	0
100.000	110.000	16.00	12.00	-0.95	225.00	135.00	20	21	0
40.000	100.000	16.00	12.00	-5.20	225.00	135.00	20	21	0
0.000	40.000	16.00	12.00	-8.70	225.00	135.00	20	21	0

* if negative a constant distance from face based on bottom elevation
& if negative orientation is disregarded in calculation of loads

TRANSMISSION LINES
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TYPE OF	..ELEVATION OF..		NO.OF	.....POSITION.....			C/C	WT
LINE	BOTTOM	TOP	LINES	DISTANCE	AZI	ORIENT	SPACING	MULT
	ft	ft		* ft	# deg	& deg	in	
AH1.625	0.000	128.000	1	-12.00	225.0	135.0	0.00	1
AH0.875	0.000	125.000	1	-12.00	45.0	45.0	0.00	1
EWP180	0.000	90.000	1	-12.00	45.0	45.0	0.00	1
AH1.625	0.000	45.000	1	-12.00	225.0	135.0	0.00	1
AH0.875	0.000	32.000	1	-12.00	45.0	45.0	0.00	1
AH0.875	0.000	32.000	1	-12.00	315.0	315.0	0.00	1

* if negative a constant distance from face based on bottom elevation
# if negative the line considered same on all faces and integral with tower
& if negative orientation is disregarded in calculation of loads

OTHER MOUNTINGS
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ELEV	TYPE.OF	NO.OF	LENGTH	....LOCATION....		ORIENTATION	
	MATERIAL	ELMNTS		DISTANCE	AZI	HORIZ	VERT
ft			ft	ft	& deg	deg	deg
128.000	23	1	14.00	9.00	225.00	0.00	90.00
125.000	22	1	6.00	4.50	45.00	0.00	90.00
90.000	22	1	3.00	4.50	45.00	0.00	90.00
45.000	23	1	14.30	9.00	225.00	0.00	90.00
32.000	22	1	6.00	4.50	45.00	0.00	90.00

32.000	22	1	6.00	4.50	315.00	0.00	90.00

& if negative orientation is disregarded in calculation of loads

MICROWAVE PARABOLIC ANTENNAS

TYPE	ELEV	.....ANTENNA..... AZIMUTH	SIZE	....POSITION.... RADIUS	AZIMUTH	SHIELDING PERMITTED
	ft	deg	ft	ft	deg	percent
STD	125.000	27.00	6.00	4.50	45.00	0.
HP	90.000	90.00	2.00	6.70	45.00	0.
HP	32.000	45.00	8.00	11.00	45.00	0.
HP	32.000	300.00	6.00	11.00	315.00	0.

LOADING CONDITION A

BARE - 100 mph wind AT AZIMUTH 0

WIND LOADING

.....WIND LOADING..... AZI	SPEED	REF.VEL. PRESS.	...ICE LOADING.. RADIUS	DENSITY	.....TYPE OF..... EXP	STD	ANT LOAD	....FACTORS..... WIND LOAD	DEAD LOAD	ICE LOAD
deg	mph	psf	in	pcf	*	&	#			
0.0	100.00	0.00	0.00	56.00	1	1	1	1.00	1.00	1.00

* Type of Exposure : 1 - Wind profile (Kz) based on EIA 222 F (June 1996)
2 - Wind profile Kz = 1 ; Gh = 1
3 - Wind profile (Kz) based on EIA 222 C (Mar.1976)
4 - Wind factors supplied by user (Gh=1, step function)
5 - Wind profile UBC (May.1988) Exposure C
6 - Wind profile UBC (May.1988) Exposure B
7 - Wind profile Site Specific Wind Formula

& Type of Standard : 1 - EIA - 222 F (June 1996)
2 - EIA - 222 C (March 1976)
3 - UBC - 88 (May 1 1988)

\# Type of Antenna load :
1 - Antenna forces for this wind direction
2 - Maximum possible forces regardless of wind direction

SUPPRESS PRINTING

....LOAD SUMMARY FOR.... MAST	GUYMAST	PANEL POINTS	.....LOAD COMPONENTS..... PANELS	LADDERS	TX-LINES	DISCRETE APPURTENANCES	INDIVIDUAL ELEMENTS
no	no	no	no	no	no	no	no

MAST LOADING
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LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
D	150.000	0.00	0.0	0.0	0.1521	0.0693	0.0023	-0.0166
D	130.000	0.00	0.0	0.0	0.1475	0.0693	0.0023	-0.0161
D	130.000	0.00	0.0	0.0	0.1509	0.0699	0.0001	-0.0034
D	125.000	0.00	0.0	0.0	0.1509	0.0699	0.0001	-0.0034
D	125.000	0.00	0.0	0.0	0.1427	0.0535	0.0006	-0.0067
D	120.000	0.00	0.0	0.0	0.1427	0.0535	0.0006	-0.0067
D	120.000	0.00	0.0	0.0	0.1429	0.0899	0.0010	0.0036
D	110.000	0.00	0.0	0.0	0.1429	0.0899	0.0010	0.0036
D	110.000	0.00	0.0	0.0	0.1470	0.0942	0.0049	0.0280
D	100.000	0.00	0.0	0.0	0.1470	0.0942	0.0049	0.0280
D	100.000	0.00	0.0	0.0	0.1579	0.1165	0.0083	0.0484
D	90.000	0.00	0.0	0.0	0.1579	0.1165	0.0083	0.0484
D	90.000	0.00	0.0	0.0	0.1623	0.1210	0.0108	0.0571
D	80.000	0.00	0.0	0.0	0.1623	0.1210	0.0108	0.0571
D	80.000	0.00	0.0	0.0	0.1795	0.1370	0.0141	0.0735
D	70.000	0.00	0.0	0.0	0.1795	0.1370	0.0141	0.0735
D	70.000	0.00	0.0	0.0	0.1655	0.1262	0.0174	0.0884
D	60.000	0.00	0.0	0.0	0.1655	0.1262	0.0174	0.0884
D	60.000	0.00	0.0	0.0	0.1885	0.2122	0.0245	0.1161
D	40.000	0.00	0.0	0.0	0.1885	0.2122	0.0245	0.1161
D	40.000	0.00	0.0	0.0	0.1736	0.2110	0.0390	0.1773
D	20.000	0.00	0.0	0.0	0.1736	0.2110	0.0390	0.1773
D	20.000	0.00	0.0	0.0	0.2004	0.2669	0.0444	0.2123
D	0.000	0.00	0.0	0.0	0.2004	0.2669	0.0444	0.2123
C	128.000	9.00	225.0	0.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	0.0	0.0974	0.0648	0.0000	0.0000
C	90.000	4.50	45.0	0.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	0.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	0.0	0.1332	0.1296	0.0000	0.0000

GUYMAST LOADING
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LOAD TYPE	ELEV ft	.....FORCES (kip)..... NORTH	EAST	DOWN	...MOMENTS (ft.kips)... NORTH	EAST	TORSION	ANTENNA AZIMUTH
D	150.000	-0.1521	0.0000	0.0693	0.0016	0.0016	-0.0166	
D	130.000	-0.1475	0.0000	0.0693	0.0016	0.0016	-0.0161	
D	130.000	-0.1509	0.0000	0.0699	0.0001	0.0001	-0.0034	
D	125.000	-0.1509	0.0000	0.0699	0.0001	0.0001	-0.0034	
D	125.000	-0.1427	0.0000	0.0535	0.0004	0.0004	-0.0067	
D	120.000	-0.1427	0.0000	0.0535	0.0004	0.0004	-0.0067	

D	120.000	-0.1429	0.0000	0.0899	-0.0007	-0.0007	0.0036	
D	110.000	-0.1429	0.0000	0.0899	-0.0007	-0.0007	0.0036	
D	110.000	-0.1470	0.0000	0.0942	-0.0034	-0.0034	0.0280	
D	100.000	-0.1470	0.0000	0.0942	-0.0034	-0.0034	0.0280	
D	100.000	-0.1579	0.0000	0.1165	-0.0059	-0.0059	0.0484	
D	90.000	-0.1579	0.0000	0.1165	-0.0059	-0.0059	0.0484	
D	90.000	-0.1623	0.0000	0.1210	-0.0076	-0.0076	0.0571	
D	80.000	-0.1623	0.0000	0.1210	-0.0076	-0.0076	0.0571	
D	80.000	-0.1795	0.0000	0.1370	-0.0100	-0.0100	0.0735	
D	70.000	-0.1795	0.0000	0.1370	-0.0100	-0.0100	0.0735	
D	70.000	-0.1655	0.0000	0.1262	-0.0123	-0.0123	0.0884	
D	60.000	-0.1655	0.0000	0.1262	-0.0123	-0.0123	0.0884	
D	60.000	-0.1885	0.0000	0.2122	-0.0173	-0.0173	0.1161	
D	40.000	-0.1885	0.0000	0.2122	-0.0173	-0.0173	0.1161	
D	40.000	-0.1736	0.0000	0.2110	-0.0252	-0.0297	0.1773	
D	20.000	-0.1736	0.0000	0.2110	-0.0252	-0.0297	0.1773	
D	20.000	-0.2004	0.0000	0.2669	-0.0268	-0.0354	0.2123	
D	0.000	-0.2004	0.0000	0.2669	-0.0268	-0.0354	0.2123	
C	128.000	-0.3171	0.0000	0.0579	-0.3685	-0.3686	2.0180	
C	125.000	-0.0974	0.0000	0.0648	0.2062	0.2062	-0.3100	
C	90.000	-0.0374	0.0000	0.0324	0.1031	0.1031	-0.1190	
C	45.000	-0.2403	0.0000	0.0592	-0.3764	-0.3764	1.5290	
C	32.000	-0.1332	0.0000	0.1296	0.4124	0.0000	0.0000	
C	125.000	-1.6397	-0.8855	0.1680	0.5346	0.5346	-2.2693	27.
C	90.000	-0.0759	0.0133	0.0425	0.2013	0.2013	-0.4462	90.
C	32.000	-1.4582	-0.8540	0.4470	3.4768	3.4768	-4.2257	45.
C	32.000	-0.6486	0.5209	0.2810	2.1857	-2.1857	0.9504	300.

LOADS AT PANEL POINTS
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LOAD	ELEV	.....FORCES (kip).....			...MOMENTS (ft.kips)...		
TYPE	ft	NORTH	EAST	DOWN	NORTH	EAST	TORSION
C	150.000	-0.3802	0.0000	0.1733	0.0041	0.0041	-0.0415
C	145.000	-0.7566	0.0000	0.3465	0.0082	0.0082	-0.0826
C	140.000	-0.7491	0.0000	0.3465	0.0082	0.0082	-0.0818
C	135.000	-0.7413	0.0000	0.3465	0.0082	0.0082	-0.0810
C	130.000	-0.9362	0.0000	0.3828	-0.2168	-0.2168	1.1619
C	125.000	-2.5979	-0.8855	0.5645	0.5946	0.5946	-1.7975
C	120.000	-1.0713	0.0000	0.5832	-0.0025	-0.0025	0.0011
C	110.000	-1.4498	0.0000	0.9207	-0.0207	-0.0207	0.1578
C	100.000	-1.5244	0.0000	1.0534	-0.0465	-0.0465	0.3817
C	90.000	-1.7141	0.0133	1.2624	0.2370	0.2370	-0.0381
C	80.000	-1.7092	0.0000	1.2903	-0.0879	-0.0879	0.6529
C	70.000	-1.7250	0.0000	1.3160	-0.1112	-0.1112	0.8095
C	60.000	-2.7728	0.0000	2.7673	-0.3288	-0.3288	1.9849
C	40.000	-5.1455	-0.1998	4.7907	2.9372	0.0217	2.1154
C	20.000	-4.6362	-0.1332	5.1226	1.9097	-0.1353	2.5862
C	0.000	-2.0044	0.0000	2.6694	-0.2681	-0.3544	2.1231

PANEL LOADING
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LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	......FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	147.500	0.00	0.0	0.0	0.7604	0.3465	0.0116	-0.0830
C	142.500	0.00	0.0	0.0	0.7529	0.3465	0.0116	-0.0822
C	137.500	0.00	0.0	0.0	0.7453	0.3465	0.0116	-0.0814
C	132.500	0.00	0.0	0.0	0.7374	0.3465	0.0116	-0.0805
C	127.500	0.00	0.0	0.0	0.7545	0.3496	0.0007	-0.0172
C	122.500	0.00	0.0	0.0	0.7133	0.2674	0.0028	-0.0336
C	115.000	0.00	0.0	0.0	1.4294	0.8990	0.0100	0.0358
C	105.000	0.00	0.0	0.0	1.4702	0.9423	0.0486	0.2798
C	95.000	0.00	0.0	0.0	1.5785	1.1645	0.0829	0.4835
C	85.000	0.00	0.0	0.0	1.6231	1.2104	0.1079	0.5707
C	75.000	0.00	0.0	0.0	1.7953	1.3702	0.1408	0.7351
C	65.000	0.00	0.0	0.0	1.6546	1.2618	0.1737	0.8840
C	50.000	0.00	0.0	0.0	3.7709	4.2432	0.4902	2.3212
C	30.000	0.00	0.0	0.0	3.4718	4.2204	0.7798	3.5465
C	10.000	0.00	0.0	0.0	4.0088	5.3388	0.8887	4.2463

LOADS DUE TO LADDER
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LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	......FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
D	150.000	0.00	0.0	0.0	0.0435	0.0043	0.0023	-0.0166
D	120.000	0.00	0.0	0.0	0.0413	0.0043	0.0023	-0.0158
D	120.000	0.00	0.0	0.0	0.0406	0.0043	0.0009	-0.0062
D	110.000	0.00	0.0	0.0	0.0406	0.0043	0.0009	-0.0062
D	110.000	0.00	0.0	0.0	0.0396	0.0043	0.0026	0.0167
D	100.000	0.00	0.0	0.0	0.0396	0.0043	0.0026	0.0167
D	100.000	0.00	0.0	0.0	0.0385	0.0043	0.0056	0.0357
D	90.000	0.00	0.0	0.0	0.0385	0.0043	0.0056	0.0357
D	90.000	0.00	0.0	0.0	0.0373	0.0043	0.0087	0.0532
D	80.000	0.00	0.0	0.0	0.0373	0.0043	0.0087	0.0532
D	80.000	0.00	0.0	0.0	0.0360	0.0043	0.0117	0.0694
D	70.000	0.00	0.0	0.0	0.0360	0.0043	0.0117	0.0694
D	70.000	0.00	0.0	0.0	0.0346	0.0043	0.0148	0.0840
D	60.000	0.00	0.0	0.0	0.0346	0.0043	0.0148	0.0840
D	60.000	0.00	0.0	0.0	0.0320	0.0043	0.0193	0.1018
D	40.000	0.00	0.0	0.0	0.0320	0.0043	0.0193	0.1018
D	40.000	0.00	0.0	0.0	0.0285	0.0043	0.0283	0.1325
D	20.000	0.00	0.0	0.0	0.0285	0.0043	0.0283	0.1325
D	20.000	0.00	0.0	0.0	0.0285	0.0043	0.0344	0.1611
D	0.000	0.00	0.0	0.0	0.0285	0.0043	0.0344	0.1611

LOADS DUE TO TRANSMISSION LINES
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LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	......FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip

D	150.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	0.0	0.0050	0.0006	0.0022	0.0125
D	125.000	0.00	0.0	0.0	0.0050	0.0006	0.0022	0.0125
D	125.000	0.00	0.0	0.0	0.0130	0.0016	0.0018	0.0091
D	120.000	0.00	0.0	0.0	0.0130	0.0016	0.0018	0.0091
D	120.000	0.00	0.0	0.0	0.0127	0.0016	0.0019	0.0098
D	110.000	0.00	0.0	0.0	0.0127	0.0016	0.0019	0.0098
D	110.000	0.00	0.0	0.0	0.0124	0.0016	0.0023	0.0113
D	100.000	0.00	0.0	0.0	0.0124	0.0016	0.0023	0.0113
D	100.000	0.00	0.0	0.0	0.0121	0.0016	0.0026	0.0127
D	90.000	0.00	0.0	0.0	0.0121	0.0016	0.0026	0.0127
D	90.000	0.00	0.0	0.0	0.0141	0.0017	0.0021	0.0038
D	80.000	0.00	0.0	0.0	0.0141	0.0017	0.0021	0.0038
D	80.000	0.00	0.0	0.0	0.0136	0.0017	0.0023	0.0041
D	70.000	0.00	0.0	0.0	0.0136	0.0017	0.0023	0.0041
D	70.000	0.00	0.0	0.0	0.0130	0.0017	0.0026	0.0044
D	60.000	0.00	0.0	0.0	0.0130	0.0017	0.0026	0.0044
D	60.000	0.00	0.0	0.0	0.0137	0.0020	0.0052	0.0143
D	40.000	0.00	0.0	0.0	0.0137	0.0020	0.0052	0.0143
D	40.000	0.00	0.0	0.0	0.0203	0.0034	0.0110	0.0448
D	20.000	0.00	0.0	0.0	0.0203	0.0034	0.0110	0.0448
D	20.000	0.00	0.0	0.0	0.0229	0.0038	0.0114	0.0512
D	0.000	0.00	0.0	0.0	0.0229	0.0038	0.0114	0.0512

LOADS DUE TO OTHER MOUNTINGS
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
C	128.000	9.00	225.0	0.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	0.0	0.0974	0.0648	0.0000	0.0000
C	90.000	4.50	45.0	0.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	0.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	0.0	0.1332	0.1296	0.0000	0.0000

LOADS DUE TO MICROWAVE PARABOLIC ANTENNAS
==========

TYPE	.....ANTENNA..... SIZE	ELEV	AZIM	.ATTACHMENT. RADIUS	AZIM	.....ANTENNA FORCES..... AXIAL	SHEAR	GRAVITY	TORSION
	ft	ft	deg	ft	deg	kip	kip	kip	ft-kip
STD	6.0	125.000	27.	4.50	45.	1.86	0.04	0.17	0.13
HP	2.0	90.000	90.	6.70	45.	-0.01	-0.08	0.04	-0.02
HP	8.0	32.000	45.	11.00	45.	1.63	-0.43	0.45	0.47
HP	6.0	32.000	300.	11.00	315.	0.78	0.30	0.28	-0.04

INDIVIDUAL ELEMENT LOADS

TYPE NO	MATERIAL TYPE	BARE LOADS GRAVITY plf	BARE LOADS WIND AREA ft.sq/ft	CURRENT LOADING GRAVITY plf	CURRENT LOADING WIND AREA ft.sq/ft
1	STD	40.521	0.896	40.521	1.075
2	STD	28.581	0.719	28.581	0.863
3	STD	18.992	0.552	18.992	0.663
4	XS	14.997	0.375	14.997	0.450
5	XS	10.262	0.292	10.262	0.350
6	STD	5.798	0.240	5.798	0.287
7	STD	7.583	0.292	7.583	0.350
8	STD	2.720	0.158	2.720	0.190
9	L	2.113	0.146	2.113	0.292
10	L	3.296	0.167	3.296	0.333
11	L	2.871	0.146	2.871	0.292
12	L	4.227	0.146	4.227	0.292
13	L	5.163	0.208	5.163	0.417
14	L	5.503	0.208	5.503	0.417
15	L	4.865	0.167	4.865	0.333
16	L	3.296	0.167	3.296	0.333
17	L	2.871	0.146	2.871	0.292
18	L	4.865	0.167	4.865	0.333
19	L	3.662	0.146	3.662	0.292
20	PL	1.276	0.167	1.276	0.333
21	SR	1.503	0.063	1.503	0.075
22	STD	10.801	0.375	10.801	0.450
23	SR	4.137	0.442	4.137	0.530
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	EWP180	0.150	0.065	0.150	0.063
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	AH0.875	0.540	0.093	0.540	0.111

LOADING CONDITION B

BARE - 100 mph wind AT AZIMUTH 90

WIND LOADING

AZI	WIND LOADING SPEED	REF.VEL. PRESS.	ICE LOADING RADIUS	ICE LOADING DENSITY	TYPE OF EXP *	TYPE OF STD &	TYPE OF ANT LOAD #	FACTORS WIND LOAD	FACTORS DEAD LOAD	FACTORS ICE LOAD
deg	mph	psf	in	pcf						
90.0	100.00	0.00	0.00	56.00	1	1	1	1.00	1.00	1.00

* Type of Exposure : 1 - Wind profile (Kz) based on EIA 222 F (June 1996)
2 - Wind profile Kz = 1 ; Gh = 1
3 - Wind profile (Kz) based on EIA 222 C (Mar.1976)
4 - Wind factors supplied by user (Gh=1, step function)
5 - Wind profile UBC (May.1988) Exposure C
6 - Wind profile UBC (May.1988) Exposure B
7 - Wind profile Site Specific Wind Formula

& Type of Standard : 1 - EIA - 222 F (June 1996)
2 - EIA - 222 C (March 1976)
3 - UBC - 88 (May 1 1988)

Type of Antenna load :
1 - Antenna forces for this wind direction
2 - Maximum possible forces regardless of wind direction

SUPPRESS PRINTING
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....LOAD SUMMARY FOR....			.....LOAD COMPONENTS.....				
MAST	GUYMAST	PANEL POINTS	PANELS	LADDERS	TX-LINES	DISCRETE APPURTENANCES	INDIVIDUAL ELEMENTS
no	yes	yes	yes	no	no	no	no

MAST LOADING
==========

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
D	150.000	0.00	0.0	90.0	0.1521	0.0693	0.0023	0.0166
D	130.000	0.00	0.0	90.0	0.1475	0.0693	0.0023	0.0161
D	130.000	0.00	0.0	90.0	0.1509	0.0699	0.0001	0.0034
D	125.000	0.00	0.0	90.0	0.1509	0.0699	0.0001	0.0034
D	125.000	0.00	0.0	90.0	0.1427	0.0535	0.0006	0.0067
D	120.000	0.00	0.0	90.0	0.1427	0.0535	0.0006	0.0067
D	120.000	0.00	0.0	90.0	0.1429	0.0899	0.0010	-0.0036
D	110.000	0.00	0.0	90.0	0.1429	0.0899	0.0010	-0.0036
D	110.000	0.00	0.0	90.0	0.1470	0.0942	0.0049	-0.0280
D	100.000	0.00	0.0	90.0	0.1470	0.0942	0.0049	-0.0280
D	100.000	0.00	0.0	90.0	0.1579	0.1165	0.0083	-0.0484
D	90.000	0.00	0.0	90.0	0.1579	0.1165	0.0083	-0.0484
D	90.000	0.00	0.0	90.0	0.1623	0.1210	0.0108	-0.0571
D	80.000	0.00	0.0	90.0	0.1623	0.1210	0.0108	-0.0571
D	80.000	0.00	0.0	90.0	0.1795	0.1370	0.0141	-0.0735
D	70.000	0.00	0.0	90.0	0.1795	0.1370	0.0141	-0.0735
D	70.000	0.00	0.0	90.0	0.1655	0.1262	0.0174	-0.0884
D	60.000	0.00	0.0	90.0	0.1655	0.1262	0.0174	-0.0884
D	60.000	0.00	0.0	90.0	0.1885	0.2122	0.0245	-0.1161
D	40.000	0.00	0.0	90.0	0.1885	0.2122	0.0245	-0.1161
D	40.000	0.00	0.0	90.0	0.1736	0.2110	0.0390	-0.1505
D	20.000	0.00	0.0	90.0	0.1736	0.2110	0.0390	-0.1505
D	20.000	0.00	0.0	90.0	0.2004	0.2669	0.0444	-0.1611
D	0.000	0.00	0.0	90.0	0.2004	0.2669	0.0444	-0.1611
C	128.000	9.00	225.0	90.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	90.0	0.0974	0.0648	0.0000	0.0000

C	90.000	4.50	45.0	90.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	90.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	90.0	0.1332	0.1296	0.0000	0.0000

LOADS DUE TO LADDER
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
D	150.000	0.00	0.0	90.0	0.0435	0.0043	0.0023	0.0166
D	120.000	0.00	0.0	90.0	0.0413	0.0043	0.0023	0.0158
D	120.000	0.00	0.0	90.0	0.0406	0.0043	0.0009	0.0062
D	110.000	0.00	0.0	90.0	0.0406	0.0043	0.0009	0.0062
D	110.000	0.00	0.0	90.0	0.0396	0.0043	0.0026	-0.0167
D	100.000	0.00	0.0	90.0	0.0396	0.0043	0.0026	-0.0167
D	100.000	0.00	0.0	90.0	0.0385	0.0043	0.0056	-0.0357
D	90.000	0.00	0.0	90.0	0.0385	0.0043	0.0056	-0.0357
D	90.000	0.00	0.0	90.0	0.0373	0.0043	0.0087	-0.0532
D	80.000	0.00	0.0	90.0	0.0373	0.0043	0.0087	-0.0532
D	80.000	0.00	0.0	90.0	0.0360	0.0043	0.0117	-0.0694
D	70.000	0.00	0.0	90.0	0.0360	0.0043	0.0117	-0.0694
D	70.000	0.00	0.0	90.0	0.0346	0.0043	0.0148	-0.0840
D	60.000	0.00	0.0	90.0	0.0346	0.0043	0.0148	-0.0840
D	60.000	0.00	0.0	90.0	0.0320	0.0043	0.0193	-0.1018
D	40.000	0.00	0.0	90.0	0.0320	0.0043	0.0193	-0.1018
D	40.000	0.00	0.0	90.0	0.0285	0.0043	0.0283	-0.1325
D	20.000	0.00	0.0	90.0	0.0285	0.0043	0.0283	-0.1325
D	20.000	0.00	0.0	90.0	0.0285	0.0043	0.0344	-0.1611
D	0.000	0.00	0.0	90.0	0.0285	0.0043	0.0344	-0.1611

LOADS DUE TO TRANSMISSION LINES
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
D	150.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	90.0	0.0050	0.0006	0.0022	-0.0125
D	125.000	0.00	0.0	90.0	0.0050	0.0006	0.0022	-0.0125
D	125.000	0.00	0.0	90.0	0.0130	0.0016	0.0018	-0.0091
D	120.000	0.00	0.0	90.0	0.0130	0.0016	0.0018	-0.0091
D	120.000	0.00	0.0	90.0	0.0127	0.0016	0.0019	-0.0098
D	110.000	0.00	0.0	90.0	0.0127	0.0016	0.0019	-0.0098
D	110.000	0.00	0.0	90.0	0.0124	0.0016	0.0023	-0.0113
D	100.000	0.00	0.0	90.0	0.0124	0.0016	0.0023	-0.0113

D	100.000	0.00	0.0	90.0	0.0121	0.0016	0.0026	-0.0127
D	90.000	0.00	0.0	90.0	0.0121	0.0016	0.0026	-0.0127
D	90.000	0.00	0.0	90.0	0.0141	0.0017	0.0021	-0.0038
D	80.000	0.00	0.0	90.0	0.0141	0.0017	0.0021	-0.0038
D	80.000	0.00	0.0	90.0	0.0136	0.0017	0.0023	-0.0041
D	70.000	0.00	0.0	90.0	0.0136	0.0017	0.0023	-0.0041
D	70.000	0.00	0.0	90.0	0.0130	0.0017	0.0026	-0.0044
D	60.000	0.00	0.0	90.0	0.0130	0.0017	0.0026	-0.0044
D	60.000	0.00	0.0	90.0	0.0137	0.0020	0.0052	-0.0143
D	40.000	0.00	0.0	90.0	0.0137	0.0020	0.0052	-0.0143
D	40.000	0.00	0.0	90.0	0.0203	0.0034	0.0110	-0.0179
D	20.000	0.00	0.0	90.0	0.0203	0.0034	0.0110	-0.0179
D	20.000	0.00	0.0	90.0	0.0229	0.0038	0.0114	0.0000
D	0.000	0.00	0.0	90.0	0.0229	0.0038	0.0114	0.0000

LOADS DUE TO OTHER MOUNTINGS
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
C	128.000	9.00	225.0	90.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	90.0	0.0974	0.0648	0.0000	0.0000
C	90.000	4.50	45.0	90.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	90.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	90.0	0.1332	0.1296	0.0000	0.0000

LOADS DUE TO MICROWAVE PARABOLIC ANTENNAS
==========

.....ANTENNA..... TYPE	SIZE	ELEV	AZIM	.ATTACHMENT. RADIUS	AZIM	.....ANTENNA FORCES..... AXIAL	SHEAR	GRAVITY	TORSION
	ft	ft	deg	ft	deg	kip	kip	kip	ft-kip
STD	6.0	125.000	27.	4.50	45.	1.88	0.37	0.17	-0.46
HP	2.0	90.000	90.	6.70	45.	0.15	0.00	0.04	0.00
HP	8.0	32.000	45.	11.00	45.	1.63	0.43	0.45	-0.47
HP	6.0	32.000	300.	11.00	315.	-0.79	0.14	0.28	0.30

INDIVIDUAL ELEMENT LOADS
==========

TYPE NO	MATERIAL TYPE	.....BARE LOADS..... GRAVITY	WIND AREA	...CURRENT LOADING... GRAVITY	WIND AREA
		plf	ft.sq/ft	plf	ft.sq/ft
1	STD	40.521	0.896	40.521	1.075
2	STD	28.581	0.719	28.581	0.863
3	STD	18.992	0.552	18.992	0.663
4	XS	14.997	0.375	14.997	0.450
5	XS	10.262	0.292	10.262	0.350
6	STD	5.798	0.240	5.798	0.287
7	STD	7.583	0.292	7.583	0.350
8	STD	2.720	0.158	2.720	0.190
9	L	2.113	0.146	2.113	0.292
10	L	3.296	0.167	3.296	0.333

11	L	2.871	0.146	2.871	0.292
12	L	4.227	0.146	4.227	0.292
13	L	5.163	0.208	5.163	0.417
14	L	5.503	0.208	5.503	0.417
15	L	4.865	0.167	4.865	0.333
16	L	3.296	0.167	3.296	0.333
17	L	2.871	0.146	2.871	0.292
18	L	4.865	0.167	4.865	0.333
19	L	3.662	0.146	3.662	0.292
20	PL	1.276	0.167	1.276	0.333
21	SR	1.503	0.063	1.503	0.075
22	STD	10.801	0.375	10.801	0.450
23	SR	4.137	0.442	4.137	0.530
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	EWP180	0.150	0.065	0.150	0.063
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	AH0.875	0.540	0.093	0.540	0.111

==========

LOADING CONDITION C ==========

BARE - 100 mph wind AT AZIMUTH 180

WIND LOADING
============

.....WIND LOADING.....			...ICE LOADING..		.....TYPE OF.....			....FACTORS.....		
AZI	SPEED	REF.VEL. PRESS.	RADIUS	DENSITY	EXP	STD	ANT LOAD	WIND LOAD	DEAD LOAD	ICE LOAD
deg	mph	psf	in	pcf	*	&	#			
180.0	100.00	0.00	0.00	56.00	1	1	1	1.00	1.00	1.00

* Type of Exposure : 1 - Wind profile (Kz) based on EIA 222 F (June 1996)
2 - Wind profile Kz = 1 ; Gh = 1
3 - Wind profile (Kz) based on EIA 222 C (Mar.1976)
4 - Wind factors supplied by user (Gh=1, step function)
5 - Wind profile UBC (May.1988) Exposure C
6 - Wind profile UBC (May.1988) Exposure B
7 - Wind profile Site Specific Wind Formula

& Type of Standard : 1 - EIA - 222 F (June 1996)
2 - EIA - 222 C (March 1976)
3 - UBC - 88 (May 1 1988)

Type of Antenna load :
1 - Antenna forces for this wind direction
2 - Maximum possible forces regardless of wind direction

SUPPRESS PRINTING
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....LOAD SUMMARY FOR....			.....LOAD COMPONENTS.....					
MAST	GUYMAST	PANEL POINTS	PANELS	LADDERS	TX-LINES	DISCRETE APPURTENANCES	INDIVIDUAL ELEMENTS	

no	no	yes	yes	no	no	no	no

MAST LOADING
============

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
D	150.000	0.00	0.0	180.0	0.1521	0.0693	0.0023	0.0166
D	130.000	0.00	0.0	180.0	0.1475	0.0693	0.0023	0.0161
D	130.000	0.00	0.0	180.0	0.1509	0.0699	0.0001	0.0034
D	125.000	0.00	0.0	180.0	0.1509	0.0699	0.0001	0.0034
D	125.000	0.00	0.0	180.0	0.1427	0.0535	0.0006	0.0067
D	120.000	0.00	0.0	180.0	0.1427	0.0535	0.0006	0.0067
D	120.000	0.00	0.0	180.0	0.1429	0.0899	0.0010	-0.0036
D	110.000	0.00	0.0	180.0	0.1429	0.0899	0.0010	-0.0036
D	110.000	0.00	0.0	180.0	0.1470	0.0942	0.0049	-0.0280
D	100.000	0.00	0.0	180.0	0.1470	0.0942	0.0049	-0.0280
D	100.000	0.00	0.0	180.0	0.1579	0.1165	0.0083	-0.0484
D	90.000	0.00	0.0	180.0	0.1579	0.1165	0.0083	-0.0484
D	90.000	0.00	0.0	180.0	0.1623	0.1210	0.0108	-0.0571
D	80.000	0.00	0.0	180.0	0.1623	0.1210	0.0108	-0.0571
D	80.000	0.00	0.0	180.0	0.1795	0.1370	0.0141	-0.0735
D	70.000	0.00	0.0	180.0	0.1795	0.1370	0.0141	-0.0735
D	70.000	0.00	0.0	180.0	0.1655	0.1262	0.0174	-0.0884
D	60.000	0.00	0.0	180.0	0.1655	0.1262	0.0174	-0.0884
D	60.000	0.00	0.0	180.0	0.1885	0.2122	0.0245	-0.1161
D	40.000	0.00	0.0	180.0	0.1885	0.2122	0.0245	-0.1161
D	40.000	0.00	0.0	180.0	0.1736	0.2110	0.0390	-0.1773
D	20.000	0.00	0.0	180.0	0.1736	0.2110	0.0390	-0.1773
D	20.000	0.00	0.0	180.0	0.2004	0.2669	0.0444	-0.2123
D	0.000	0.00	0.0	180.0	0.2004	0.2669	0.0444	-0.2123
C	128.000	9.00	225.0	180.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	180.0	0.0974	0.0648	0.0000	0.0000
C	90.000	4.50	45.0	180.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	180.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	180.0	0.1332	0.1296	0.0000	0.0000

GUYMAST LOADING
===============

LOAD TYPE	ELEV ft	.....FORCES (kip)..... NORTH	EAST	DOWN	...MOMENTS (ft.kips)... NORTH	EAST	TORSION	ANTENNA AZIMUTH
D	150.000	0.1521	0.0000	0.0693	0.0016	0.0016	0.0166	
D	130.000	0.1475	0.0000	0.0693	0.0016	0.0016	0.0161	
D	130.000	0.1509	0.0000	0.0699	0.0001	0.0001	0.0034	
D	125.000	0.1509	0.0000	0.0699	0.0001	0.0001	0.0034	

D	125.000	0.1427	0.0000	0.0535	0.0004	0.0004	0.0067
D	120.000	0.1427	0.0000	0.0535	0.0004	0.0004	0.0067
D	120.000	0.1429	0.0000	0.0899	-0.0007	-0.0007	-0.0036
D	110.000	0.1429	0.0000	0.0899	-0.0007	-0.0007	-0.0036
D	110.000	0.1470	0.0000	0.0942	-0.0034	-0.0034	-0.0280
D	100.000	0.1470	0.0000	0.0942	-0.0034	-0.0034	-0.0280
D	100.000	0.1579	0.0000	0.1165	-0.0059	-0.0059	-0.0484
D	90.000	0.1579	0.0000	0.1165	-0.0059	-0.0059	-0.0484
D	90.000	0.1623	0.0000	0.1210	-0.0076	-0.0076	-0.0571
D	80.000	0.1623	0.0000	0.1210	-0.0076	-0.0076	-0.0571
D	80.000	0.1795	0.0000	0.1370	-0.0100	-0.0100	-0.0735
D	70.000	0.1795	0.0000	0.1370	-0.0100	-0.0100	-0.0735
D	70.000	0.1655	0.0000	0.1262	-0.0123	-0.0123	-0.0884
D	60.000	0.1655	0.0000	0.1262	-0.0123	-0.0123	-0.0884
D	60.000	0.1885	0.0000	0.2122	-0.0173	-0.0173	-0.1161
D	40.000	0.1885	0.0000	0.2122	-0.0173	-0.0173	-0.1161
D	40.000	0.1736	0.0000	0.2110	-0.0252	-0.0297	-0.1773
D	20.000	0.1736	0.0000	0.2110	-0.0252	-0.0297	-0.1773
D	20.000	0.2004	0.0000	0.2669	-0.0268	-0.0354	-0.2123
D	0.000	0.2004	0.0000	0.2669	-0.0268	-0.0354	-0.2123
C	128.000	0.3171	0.0000	0.0579	-0.3685	-0.3686	-2.0180	
C	125.000	0.0974	0.0000	0.0648	0.2062	0.2062	0.3100	
C	90.000	0.0374	0.0000	0.0324	0.1031	0.1031	0.1190	
C	45.000	0.2403	0.0000	0.0592	-0.3764	-0.3764	-1.5290	
C	32.000	0.1332	0.0000	0.1296	0.4124	0.0000	0.0000	
C	125.000	1.0540	0.0504	0.1680	0.5346	0.5346	3.9216	27.
C	90.000	0.0759	0.0133	0.0425	0.2013	0.2013	0.3204	90.
C	32.000	1.2044	0.6445	0.4470	3.4768	3.4768	5.3485	45.
C	32.000	0.6024	-0.3256	0.2810	2.1857	-2.1857	-2.6643	300.

LOADS DUE TO LADDER
==========

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
D	150.000	0.00	0.0	180.0	0.0435	0.0043	0.0023	0.0166
D	120.000	0.00	0.0	180.0	0.0413	0.0043	0.0023	0.0158
D	120.000	0.00	0.0	180.0	0.0406	0.0043	0.0009	0.0062
D	110.000	0.00	0.0	180.0	0.0406	0.0043	0.0009	0.0062
D	110.000	0.00	0.0	180.0	0.0396	0.0043	0.0026	-0.0167
D	100.000	0.00	0.0	180.0	0.0396	0.0043	0.0026	-0.0167
D	100.000	0.00	0.0	180.0	0.0385	0.0043	0.0056	-0.0357
D	90.000	0.00	0.0	180.0	0.0385	0.0043	0.0056	-0.0357
D	90.000	0.00	0.0	180.0	0.0373	0.0043	0.0087	-0.0532
D	80.000	0.00	0.0	180.0	0.0373	0.0043	0.0087	-0.0532
D	80.000	0.00	0.0	180.0	0.0360	0.0043	0.0117	-0.0694
D	70.000	0.00	0.0	180.0	0.0360	0.0043	0.0117	-0.0694

D	70.000	0.00	0.0	180.0	0.0346	0.0043	0.0148	-0.0840
D	60.000	0.00	0.0	180.0	0.0346	0.0043	0.0148	-0.0840
D	60.000	0.00	0.0	180.0	0.0320	0.0043	0.0193	-0.1018
D	40.000	0.00	0.0	180.0	0.0320	0.0043	0.0193	-0.1018
D	40.000	0.00	0.0	180.0	0.0285	0.0043	0.0283	-0.1325
D	20.000	0.00	0.0	180.0	0.0285	0.0043	0.0283	-0.1325
D	20.000	0.00	0.0	180.0	0.0285	0.0043	0.0344	-0.1611
D	0.000	0.00	0.0	180.0	0.0285	0.0043	0.0344	-0.1611

LOADS DUE TO TRANSMISSION LINES
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
D	150.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	180.0	0.0000	0.0000	0.0000	0.0000
D	130.000	0.00	0.0	180.0	0.0050	0.0006	0.0022	-0.0125
D	125.000	0.00	0.0	180.0	0.0050	0.0006	0.0022	-0.0125
D	125.000	0.00	0.0	180.0	0.0130	0.0016	0.0018	-0.0091
D	120.000	0.00	0.0	180.0	0.0130	0.0016	0.0018	-0.0091
D	120.000	0.00	0.0	180.0	0.0127	0.0016	0.0019	-0.0098
D	110.000	0.00	0.0	180.0	0.0127	0.0016	0.0019	-0.0098
D	110.000	0.00	0.0	180.0	0.0124	0.0016	0.0023	-0.0113
D	100.000	0.00	0.0	180.0	0.0124	0.0016	0.0023	-0.0113
D	100.000	0.00	0.0	180.0	0.0121	0.0016	0.0026	-0.0127
D	90.000	0.00	0.0	180.0	0.0121	0.0016	0.0026	-0.0127
D	90.000	0.00	0.0	180.0	0.0141	0.0017	0.0021	-0.0038
D	80.000	0.00	0.0	180.0	0.0141	0.0017	0.0021	-0.0038
D	80.000	0.00	0.0	180.0	0.0136	0.0017	0.0023	-0.0041
D	70.000	0.00	0.0	180.0	0.0136	0.0017	0.0023	-0.0041
D	70.000	0.00	0.0	180.0	0.0130	0.0017	0.0026	-0.0044
D	60.000	0.00	0.0	180.0	0.0130	0.0017	0.0026	-0.0044
D	60.000	0.00	0.0	180.0	0.0137	0.0020	0.0052	-0.0143
D	40.000	0.00	0.0	180.0	0.0137	0.0020	0.0052	-0.0143
D	40.000	0.00	0.0	180.0	0.0203	0.0034	0.0110	-0.0448
D	20.000	0.00	0.0	180.0	0.0203	0.0034	0.0110	-0.0448
D	20.000	0.00	0.0	180.0	0.0229	0.0038	0.0114	-0.0512
D	0.000	0.00	0.0	180.0	0.0229	0.0038	0.0114	-0.0512

LOADS DUE TO OTHER MOUNTINGS
==========

LOAD TYPE	ELEV	APPLY..LOAD..AT RADIUS	AZI	LOAD AZI	.....FORCES..... HORIZ	DOWN	.....MOMENTS..... VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip

C	128.000	9.00	225.0	180.0	0.3171	0.0579	0.0000	0.0000
C	125.000	4.50	45.0	180.0	0.0974	0.0648	0.0000	0.0000
C	90.000	4.50	45.0	180.0	0.0374	0.0324	0.0000	0.0000
C	45.000	9.00	225.0	180.0	0.2403	0.0592	0.0000	0.0000
C	32.000	3.18	0.0	180.0	0.1332	0.1296	0.0000	0.0000

LOADS DUE TO MICROWAVE PARABOLIC ANTENNAS
==========

	.....ANTENNA.....			.ATTACHMENT.		.....ANTENNA FORCES.....			
TYPE	SIZE	ELEV	AZIM	RADIUS	AZIM	AXIAL	SHEAR	GRAVITY	TORSION
	ft	ft	deg	ft	deg	kip	kip	kip	ft-kip
STD	6.0	125.000	27.	4.50	45.	-0.96	0.43	0.17	0.73
HP	2.0	90.000	90.	6.70	45.	-0.01	0.08	0.04	0.02
HP	8.0	32.000	45.	11.00	45.	-1.31	0.40	0.45	0.99
HP	6.0	32.000	300.	11.00	315.	-0.58	-0.36	0.28	-0.51

INDIVIDUAL ELEMENT LOADS
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TYPE NO	MATERIAL TYPE	.....BARE LOADS..... GRAVITY plf	WIND AREA ft.sq/ft	...CURRENT LOADING... GRAVITY plf	WIND AREA ft.sq/ft
1	STD	40.521	0.896	40.521	1.075
2	STD	28.581	0.719	28.581	0.863
3	STD	18.992	0.552	18.992	0.663
4	XS	14.997	0.375	14.997	0.450
5	XS	10.262	0.292	10.262	0.350
6	STD	5.798	0.240	5.798	0.287
7	STD	7.583	0.292	7.583	0.350
8	STD	2.720	0.158	2.720	0.190
9	L	2.113	0.146	2.113	0.292
10	L	3.296	0.167	3.296	0.333
11	L	2.871	0.146	2.871	0.292
12	L	4.227	0.146	4.227	0.292
13	L	5.163	0.208	5.163	0.417
14	L	5.503	0.208	5.503	0.417
15	L	4.865	0.167	4.865	0.333
16	L	3.296	0.167	3.296	0.333
17	L	2.871	0.146	2.871	0.292
18	L	4.865	0.167	4.865	0.333
19	L	3.662	0.146	3.662	0.292
20	PL	1.276	0.167	1.276	0.333
21	SR	1.503	0.063	1.503	0.075
22	STD	10.801	0.375	10.801	0.450
23	SR	4.137	0.442	4.137	0.530
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	EWP180	0.150	0.065	0.150	0.063
	AH1.625	1.040	0.165	1.040	0.198
	AH0.875	0.540	0.093	0.540	0.111
	AH0.875	0.540	0.093	0.540	0.111

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ORIGINAL DATA FILE :

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