4. The tower height, span lengths, guy anchor distances and the antenna loading were taken from the sketch of tower prepared by Gerhold, Cross & Etzel, Professional Land Surveyors, dated 1/20/92.

No ice loading was considered in this analysis. Any significant icing of the tower and its guy cables, in addition to wind loading specified for this geographical area, will put the tower and surrounding area in serious danger.

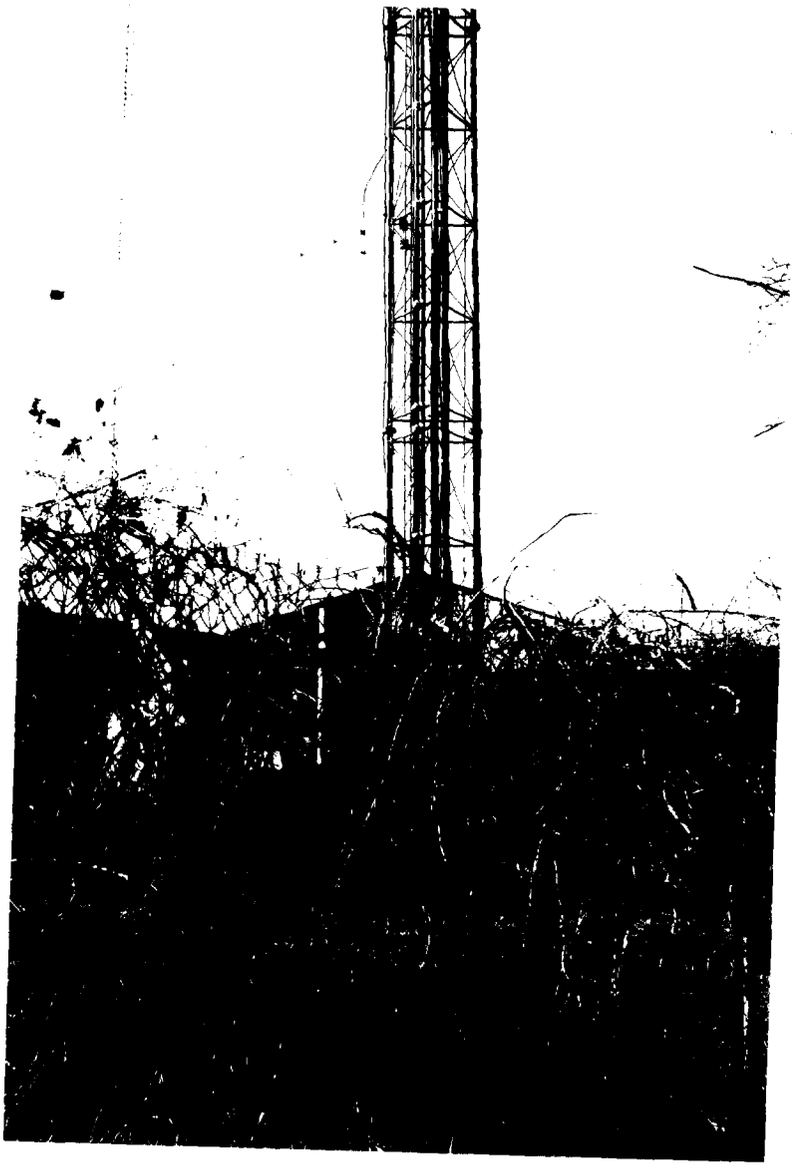
The Computer Analysis Results show the safety factors of the guys and the deflection curve for the tower under Case 2. The Computer Analysis Results also list the maximum leg and diagonal loads per tower section.

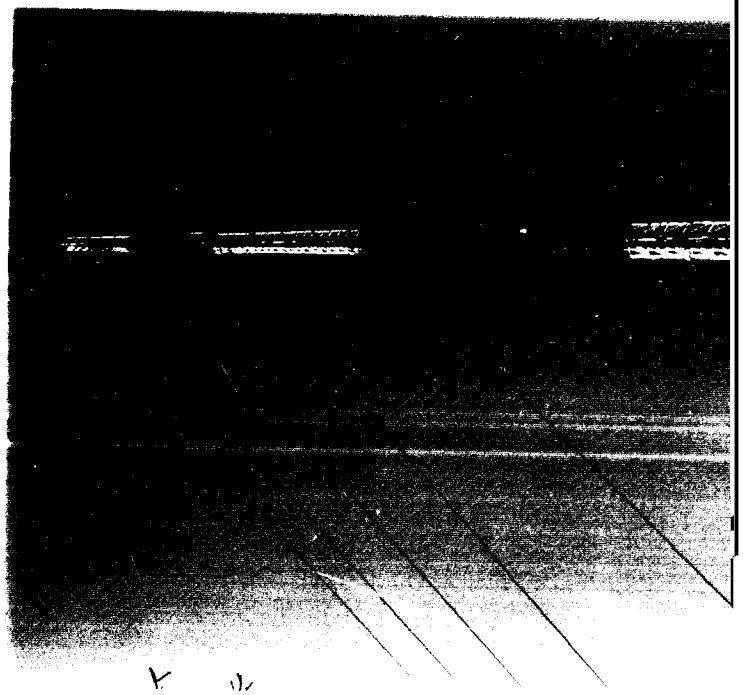
REPLACEMENT TOWER

The engineering estimate to build a new tower 666 ft. in height on the same site to support the Channel 2 antenna, in accordance with EIA/TIA Standard 222-E, is $350,000.00.

Due to the nature of this Engineering Investigation, I disclaim any liability arising from original design, geometry, material, fabrication and erection deficiencies or the "As Built" condition of the tower. Furthermore, the information and conclusions contained in this Report were determined by application of the current "state-of-the-art" engineering and analysis procedures and formulae, and Vlissides Enterprises, Inc. (Matthew J. Vlissides, P.E.) assumes no obligations to revise any of the information or conclusions contained in this Report in the event that such engineering and analysis procedures and formulae are hereafter modified or revised. In addition, under no circumstances will Vlissides Enterprises, Inc. (Matthew J. Vlissides, P.E.) have any obligations, responsibility or liability whatsoever for or on account of consequential or

PHOTOGRAPHS





SECTION B

PART I

COMPUTER INPUT CALCULATIONS

/COMTRAN/ GUYED TOWER ANALYSIS
JOB: 666 Ft. Guyed Tower, REVISED ANALYSIS, 75 MPh Basic Velo., FIA/TIA 222E

3 SIDES
7 SPANS
33 SECTIONS
MISC 5.00% WEIGHT
MISC 2.00% AREA
BASE PIER ELEVATION = 1.00
GUST RESPONSE FACTOR (Gh) = 1.04
BASIC WIND VELOCITY = 75.00
WIND ANGLE = 0
THIS RUN USED VERSION FIA 222-E

SPAN DATA

SPAN	LENGTH (FT)	WIND PRES (PSF)	WEIGHT (KIPS)	WIND LOAD (KIPS)	AVERAGE I (INFT)**2	SYST TYPE	TORS STIFF (KIP-FT)
1	93.500	16.928	5.098	1.977	24.209	N	104.230
2	95.167	22.655	5.155	2.683	24.209	N	104.230
3	95.167	26.295	5.155	3.114	24.209	N	104.230
4	95.167	28.975	5.155	3.431	24.209	N	104.230
5	94.500	31.138	5.119	3.662	24.209	N	104.230
6	95.167	32.978	4.563	3.905	19.550	N	104.230
7	94.432	34.591	4.294	4.065	17.891	N	104.230

SECTION DATA

SEC	PANEL HT (FT)	FACE WDTH (FT)	LENGTH (FT)	SHAPE FACTOR CF	SOL-RATIO e	ROUND S/F Rr
1	5.000	4.000	18.500	2.568	0.209	0.592
2	5.000	4.000	20.000	2.583	0.204	0.591
3	5.000	4.000	20.000	2.583	0.204	0.591
4	5.000	4.000	20.000	2.583	0.204	0.591
5	5.000	4.000	20.000	2.583	0.204	0.591
6	5.000	4.000	20.000	2.583	0.204	0.591
7	5.000	4.000	20.000	2.583	0.204	0.591
8	5.000	4.000	20.000	2.583	0.204	0.591
9	5.000	4.000	20.000	2.583	0.204	0.591
10	5.000	4.000	20.000	2.583	0.204	0.591
11	5.000	4.000	20.000	2.583	0.204	0.591
12	5.000	4.000	20.000	2.583	0.204	0.591
13	5.000	4.000	20.000	2.583	0.204	0.591
14	5.000	4.000	20.000	2.583	0.204	0.591
15	5.000	4.000	20.000	2.583	0.204	0.591
16	5.000	4.000	20.000	2.583	0.204	0.591
17	5.000	4.000	20.000	2.583	0.204	0.591
18	5.000	4.000	20.000	2.583	0.204	0.591
19	5.000	4.000	20.000	2.583	0.204	0.591
20	5.000	4.000	20.000	2.583	0.204	0.591
21	5.000	4.000	20.000	2.583	0.204	0.591
22	5.000	4.000	20.000	2.583	0.204	0.591
23	5.000	4.000	20.000	2.583	0.204	0.591
24	5.000	4.000	20.000	2.583	0.204	0.591
25	5.000	4.000	20.000	2.583	0.204	0.591
26	5.000	4.000	20.000	2.583	0.204	0.591
27	5.000	4.000	20.000	2.583	0.204	0.591
28	5.000	4.000	20.000	2.583	0.204	0.591
29	5.000	4.000	20.000	2.583	0.204	0.591
30	5.000	4.000	20.000	2.583	0.204	0.591
31	5.000	4.000	20.000	2.583	0.204	0.591
32	5.000	4.000	20.000	2.583	0.204	0.591
33	5.000	4.000	24.600	2.582	0.204	0.591

666 Ft. Guyed Tower, REVISED ANALYSIS, 75 MPh Basic Velo., EIA/TIA 222E

MEMBER DATA: LEGS

SEC	LEG TYPE	DIMENSIONS (IN)	XSECT (SQIN)	I (IN**4)	POUNDS PER FT	SQFT PER FT
1	PIPE	3.500x 0.300	3.016	3.894	10.263	0.173
2	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
3	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
4	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
5	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
6	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
7	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
8	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
9	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
10	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
11	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
12	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
13	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
14	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
15	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
16	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
17	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
18	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
19	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
20	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
21	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
22	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
23	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
24	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
25	PIPE	3.500x 0.300	3.016	3.894	10.263	0.172
26	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
27	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
28	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
29	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
30	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
31	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
32	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172
33	PIPE	3.500x 0.216	2.228	3.017	7.583	0.172

MEMBER DATA: DIAGONALS

SEC	DIAG TYPE	DIMENSIONS (IN)	POUNDS PER FT	SQFT PER FT	PCS
1	ROD	0.625	1.044	0.031	24
2	ROD	0.625	1.044	0.031	24
3	ROD	0.625	1.044	0.031	24
4	ROD	0.625	1.044	0.031	24
5	ROD	0.625	1.044	0.031	24
6	ROD	0.625	1.044	0.031	24
7	ROD	0.625	1.044	0.031	24
8	ROD	0.625	1.044	0.031	24
9	ROD	0.625	1.044	0.031	24
10	ROD	0.625	1.044	0.031	24
11	ROD	0.625	1.044	0.031	24
12	ROD	0.625	1.044	0.031	24
13	ROD	0.625	1.044	0.031	24
14	ROD	0.625	1.044	0.031	24
15	ROD	0.625	1.044	0.031	24
16	ROD	0.625	1.044	0.031	24
17	ROD	0.625	1.044	0.031	24
18	ROD	0.625	1.044	0.031	24
19	ROD	0.625	1.044	0.031	24
20	ROD	0.625	1.044	0.031	24
21	ROD	0.625	1.044	0.031	24
22	ROD	0.625	1.044	0.031	24
23	ROD	0.625	1.044	0.031	24
24	ROD	0.625	1.044	0.031	24
25	ROD	0.625	1.044	0.031	24
26	ROD	0.625	1.044	0.031	24
27	ROD	0.625	1.044	0.031	24
28	ROD	0.625	1.044	0.031	24
29	ROD	0.625	1.044	0.031	24
30	ROD	0.625	1.044	0.031	24
31	ROD	0.625	1.044	0.031	24
32	ROD	0.625	1.044	0.031	24
33	ROD	0.625	1.044	0.031	30

666 Ft. Guyed Tower, REVISED ANALYSIS, 75 MPh Basic Velo., EIA/TIA 222E

MEMBER DATA: HORIZONTALS

SEC	HORIZ TYPE	DIMENSIONS (IN)	POUNDS PER FT	SQFT PER FT	PCS
1	ROD	1.000	2.673	0.049	15
2	ROD	1.000	2.673	0.049	15
3	ROD	1.000	2.673	0.049	15
4	ROD	1.000	2.673	0.049	15
5	ROD	1.000	2.673	0.049	15
6	ROD	1.000	2.673	0.049	15
7	ROD	1.000	2.673	0.049	15
8	ROD	1.000	2.673	0.049	15
9	ROD	1.000	2.673	0.049	15
10	ROD	1.000	2.673	0.049	15
11	ROD	1.000	2.673	0.049	15
12	ROD	1.000	2.673	0.049	15
13	ROD	1.000	2.673	0.049	15
14	ROD	1.000	2.673	0.049	15
15	ROD	1.000	2.673	0.049	15
16	ROD	1.000	2.673	0.049	15
17	ROD	1.000	2.673	0.049	15
18	ROD	1.000	2.673	0.049	15
19	ROD	1.000	2.673	0.049	15
20	ROD	1.000	2.673	0.049	15
21	ROD	1.000	2.673	0.049	15
22	ROD	1.000	2.673	0.049	15
23	ROD	1.000	2.673	0.049	15
24	ROD	1.000	2.673	0.049	15
25	ROD	1.000	2.673	0.049	15
26	ROD	1.000	2.673	0.049	15
27	ROD	1.000	2.673	0.049	15
28	ROD	1.000	2.673	0.049	15
29	ROD	1.000	2.673	0.049	15
30	ROD	1.000	2.673	0.049	15
31	ROD	1.000	2.673	0.049	15
32	ROD	1.000	2.673	0.049	15
33	ROD	1.000	2.673	0.049	18

MEMBER DATA: REDUNDANT MEMBERS AND ANCILLARY ITEMS

SEC	RDND TYPE	DIMENSIONS (IN)	POUNDS PER FT	SQFT PER FT	PCS	ANCILL WT (K)	ANCILL A (SQFT)
1	NONE		0.000	0.000	0	0.100	0.000
2	NONE		0.000	0.000	0	0.100	0.000
3	NONE		0.000	0.000	0	0.100	0.000
4	NONE		0.000	0.000	0	0.100	0.000
5	NONE		0.000	0.000	0	0.100	0.000
6	NONE		0.000	0.000	0	0.100	0.000
7	NONE		0.000	0.000	0	0.100	0.000
8	NONE		0.000	0.000	0	0.100	0.000
9	NONE		0.000	0.000	0	0.100	0.000
10	NONE		0.000	0.000	0	0.100	0.000
11	NONE		0.000	0.000	0	0.100	0.000
12	NONE		0.000	0.000	0	0.100	0.000
13	NONE		0.000	0.000	0	0.100	0.000
14	NONE		0.000	0.000	0	0.100	0.000
15	NONE		0.000	0.000	0	0.100	0.000
16	NONE		0.000	0.000	0	0.100	0.000
17	NONE		0.000	0.000	0	0.100	0.000
18	NONE		0.000	0.000	0	0.100	0.000
19	NONE		0.000	0.000	0	0.100	0.000
20	NONE		0.000	0.000	0	0.100	0.000
21	NONE		0.000	0.000	0	0.100	0.000
22	NONE		0.000	0.000	0	0.100	0.000
23	NONE		0.000	0.000	0	0.100	0.000
24	NONE		0.000	0.000	0	0.100	0.000
25	NONE		0.000	0.000	0	0.100	0.000
26	NONE		0.000	0.000	0	0.100	0.000
27	NONE		0.000	0.000	0	0.100	0.000
28	NONE		0.000	0.000	0	0.100	0.000
29	NONE		0.000	0.000	0	0.100	0.000
30	NONE		0.000	0.000	0	0.100	0.000
31	NONE		0.000	0.000	0	0.100	0.000
32	NONE		0.000	0.000	0	0.100	0.000
33	NONE		0.000	0.000	0	0.100	0.000

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/TPREP/ TRANSMISSION LINE PREPARATION
JOB: 666' Guyed Tower, REVISED ANALYSIS, 75 Mph Basic Vel., EIA/TIA 222E

24 TRANSMISSION LINES
7 SPANS
BASIC WIND VELOCITY: 75.000
ICE RADIUS : 0.000
GUST RESPONCE (GH) : 1.041
BASEPIER ELEVATION : 1.000
THIS RUN USED EIA 222-E

TRANSMISSION LINE DATA

NO	DESCRIPTION	LBS/FT	SQFT/FT	EXPOSURE (%)	ELEVATION (FT) LOWER	UPPER
1	LADDER	5.00	0.2250	100.00	10.00	664.00
2	3-1/8" R.C.	2.60	0.3125	100.00	10.00	664.00
3	3-1/8" R.C.	2.60	0.3125	100.00	10.00	664.00

/OMNIDAT/ REMAINING TOWER INPUT DATA
JOB: 666' Guyed Tower, REVISED ANALYSIS, 75 Mph basic Vel., EIA/TIA 222E

2 CARD DATA: BASIC INFORMATION

7 GUY LEVELS
HINGED BASE
0.000 INCH RADIAL ICE ON GUYS
AMBIENT TEMPERATURE = 30.0 DEG F
INTERMEDIATE LOADS ARE CONSIDERED
NO INSULATORS ARE CONSIDERED

3 CARD DATA: GUY LEVEL INFORMATION

LVL.	# GUYS AT LVL	AVERAGE WIND VELOCITY (MI/HR)	CONCENTRATED LOADS (KIPS) WEIGHT	WIND LOAD
1	3	81.200	0.00	0.00
2	3	87.900	0.00	0.00
3	3	92.600	0.00	0.00
4	3	96.200	0.00	0.00
5	3	99.200	0.00	0.00
6	3	101.700	0.00	0.00
7	3	103.900	0.00	0.00

LVL	MOMENTS (KIP-FT) WINDWARD DIRECTION A	B	C	NORMAL DIRECTION A	B	C	TORQUES (KIP-FT) WINDWARD DIRECTION A	B	C
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4 CARD DATA: GUY AND LEVER ARM ANGLES

LVL.	GUY #	ANGLE GUY MAKES W/WIND (DEG) WIND A	WIND B	WIND C	ANGLE LEVER ARM MAKES W/WIND (DEG) WIND A	WIND B	WIND C
1	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
2	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
3	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
4	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
5	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
6	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		
7	ALL	60.00	0.00	30.00	LEVER ARM ANGLE INFO NOT REQD		

666' Guyed Tower, REVISED ANALYSIS, 75 Mph basic Vel., EIA/TIA 222E

5 CARD DATA: INTERMEDIATE LOAD INFORMATION

NO	ELEV (FT)	CONCENTRATED LOADS (KIPS) WEIGHT	WIND LOAD
1	29.0	0.10	0.08
2	98.0	0.10	0.09
3	119.0	0.10	0.09
4	160.0	0.10	0.09
5	170.0	0.10	0.09
6	180.0	0.10	0.09
7	190.0	0.10	0.25
8	230.0	0.20	0.30
9	289.0	0.10	0.14
10	363.0	0.10	0.15
11	375.0	0.10	0.15
12	393.0	0.10	0.15
13	402.0	0.10	0.16
14	403.0	0.10	0.16
15	486.0	0.10	0.16
16	501.0	0.10	0.16
17	511.0	0.10	0.16
18	523.0	0.10	0.17
19	537.0	0.10	0.17
20	549.0	0.15	0.24
21	569.0	0.15	0.24
22	589.0	0.15	0.24
23	609.0	0.15	0.24
24	629.0	0.15	0.24
25	638.0	0.15	0.20
26	648.0	0.15	0.20
27	650.0	0.10	0.18

NO	MOMENTS (KIP-FT) WINDWARD DIRECTION A	B	C	NORMAL DIRECTION A	B	C	TORQUES (KIP-FT) WINDWARD DIRECTION A	B	C
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

666' Guyed Tower, REVISED ANALYSIS, 75 Mph basic Vel., EIA/TIA 222E

6 CARD DATA: GUY CABLE INFORMATION

LVL	GUY #	DISTANCE (FT) HORIZ	VERT	TENS (KIPS)	STRAND TYPE	UNIT WT (LB/FT)	DIAM (IN)	AE (KIPS)	BS (KIPS)	LEVER ARM (FT)
1	ALL	260.00	103.50	5.00	EHS7	0.8130	0.6250	4700.	42.40	2.500
2	ALL	260.00	198.50	4.00	EHS7	0.8130	0.6250	4700.	42.40	2.500
3	ALL	260.00	294.00	6.00	EHS19	1.1550	0.7500	6720.	58.30	2.500
4	ALL	400.00	393.50	4.00	EHS7	0.8130	0.6250	4700.	42.40	2.500
5	ALL	400.00	488.00	6.00	EHS19	1.1550	0.7500	6720.	58.30	2.500
6	ALL	400.00	583.00	7.00	EHS19	1.5810	0.8750	9340.	79.70	2.500
7	ALL	400.00	678.00	12.00	EHS19	2.0730	1.0000	11940.	104.50	2.500

9 CARD DATA: PULL-OFF INFORMATION

WEIGHT (KIPS)	WIND LOAD (KIPS)	MOMENT (KIP-FT)	TORQUES (KIP-FT) WIND A	WIND B	WIND C
18.00	8.90	393.80	0.00	0.00	0.00

10 CARD DATA: PANEL INFORMATION

SPAN	PANEL HEIGHT (FT) TOP	BOTTOM	UNIFORM	# UNIF PANELS
1	5.000	3.500	5.000	17
2	5.084	5.083	5.000	17
3	5.084	5.083	5.000	17
4	5.084	5.083	5.000	17
5	4.750	4.750	5.000	17
6	5.084	5.083	5.000	17
7	4.716	4.716	5.000	17

$

/ATLAS/ ALLOWABLE TOWER LOADS

JOB: 664 Ft. Guyed Tower - 75 Mph Basic velocity, EIA 222E

ALLOWABLE LOADS ARE INCREASED BY A FACTOR OF: 1.333

NO	TYPE	DIMENSIONS (IN)	UNS LTH (IN)	RAD (IN)	XSECT (SQIN)	BOLT (SQIN)	YIELD (KSI)	MAX LOAD (KIPS)	CLASS
1	PIPE	3.500x 0.300	60.00	1.136	3.016	0.000	50.0	96.13	CMPR1
2	PIPE	3.500x 0.216	60.00	1.164	2.228	0.000	50.0	71.62	CMPR1
3	ROD	0.625	0.00	0.156	0.307	0.000	50.0	12.28	TENSN
4	ROD	1.000	45.00	0.250	0.785	0.000	50.0	4.82	CMPR1

$

PART II
COMPUTER INPUT DATA

1666' Guyed Tower, REVISED ANALYSIS, 75 Mph Basic Vel., EIA/TIA 222F WIND A

2	7	0	1	1	1	7	0.	0.	0.	0.	0.000	30.0	0.	
3	1	3	1	1	1	0	81.200		0.00		0.00	0.00	0.00	0.00
3	2	3	1	1	1	0	87.900		0.00		0.00	0.00	0.00	0.00
3	3	3	1	1	1	0	92.600		0.00		0.00	0.00	0.00	0.00
3	4	3	1	1	1	0	96.200		0.00		0.00	0.00	0.00	0.00
3	5	3	1	1	1	0	99.200		0.00		0.00	0.00	0.00	0.00
3	6	3	1	1	1	0	101.700		0.00		0.00	0.00	0.00	0.00
3	7	3	1	1	1	0	103.900		0.00		0.00	0.00	0.00	0.00
4	1	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	2	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	3	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	4	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	5	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	6	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
4	7	1	0	0	0	0	60.00		0.00	0.	0.	0.	0.	0.
5	1	1	1	6	0	0	0.10		0.08		0.00	0.00	0.00	0.00 0.
5	2	1	2	1	0	0	0.10		0.09		0.00	0.00	0.00	0.00 0.
5	2	2	2	5	0	0	0.10		0.09		0.00	0.00	0.00	0.00 0.
5	2	3	2	13	0	0	0.10		0.09		0.00	0.00	0.00	0.00 0.
5	2	4	2	15	0	0	0.10		0.09		0.00	0.00	0.00	0.00 0.
5	2	5	2	17	0	0	0.10		0.09		0.00	0.00	0.00	0.00 0.
5	2	6	2	19	0	0	0.10		0.25		0.00	0.00	0.00	0.00 0.
5	3	1	3	8	0	0	0.20		0.30		0.00	0.00	0.00	0.00 0.
5	4	1	4	1	0	0	0.10		0.14		0.00	0.00	0.00	0.00 0.
5	4	2	4	16	0	0	0.10		0.15		0.00	0.00	0.00	0.00 0.
5	4	3	4	18	0	0	0.10		0.15		0.00	0.00	0.00	0.00 0.
5	5	1	5	3	0	0	0.10		0.15		0.00	0.00	0.00	0.00 0.
5	5	2	5	5	0	0	0.10		0.16		0.00	0.00	0.00	0.00 0.
5	5	3	5	5	0	0	0.10		0.16		0.00	0.00	0.00	0.00 0.
5	6	1	6	2	0	0	0.10		0.16		0.00	0.00	0.00	0.00 0.
5	6	2	6	5	0	0	0.10		0.16		0.00	0.00	0.00	0.00 0.
5	6	3	6	7	0	0	0.10		0.16		0.00	0.00	0.00	0.00 0.
5	6	4	6	10	0	0	0.10		0.17		0.00	0.00	0.00	0.00 0.
5	6	5	6	13	0	0	0.10		0.17		0.00	0.00	0.00	0.00 0.
5	6	6	6	15	0	0	0.15		0.24		0.00	0.00	0.00	0.00 0.
5	6	7	6	19	0	0	0.15		0.24		0.00	0.00	0.00	0.00 0.
5	7	1	7	4	0	0	0.15		0.24		0.00	0.00	0.00	0.00 0.
5	7	2	7	8	0	0	0.15		0.24		0.00	0.00	0.00	0.00 0.
5	7	3	7	12	0	0	0.15		0.24		0.00	0.00	0.00	0.00 0.
5	7	4	7	14	0	0	0.15		0.20		0.00	0.00	0.00	0.00 0.
5	7	5	7	16	0	0	0.15		0.20		0.00	0.00	0.00	0.00 0.
5	7	6	7	16	0	0	0.10		0.18		0.00	0.00	0.00	0.00 0.
6	1	1	0	0	0	0	260.00		103.50		5.00	0.8130	0.6250	4700. 2.500
6	2	1	0	0	0	0	260.00		198.50		4.00	0.8130	0.6250	4700. 2.500
6	3	1	0	0	0	0	260.00		294.00		6.00	1.1550	0.7500	6720. 2.500
6	4	1	0	0	0	0	400.00		393.50		4.00	0.8130	0.6250	4700. 2.500
6	5	1	0	0	0	0	400.00		488.00		6.00	1.1550	0.7500	6720. 2.500
6	6	1	0	0	0	0	400.00		583.00		7.00	1.5810	0.8750	9340. 2.500
6	7	1	0	0	0	0	400.00		678.00		12.00	2.0730	1.0000	11940. 2.500
8	1	0	0	0	0	0	93.500		24.21		7.230	5.734	0.00	0.00 104.23
8	2	0	0	0	0	0	95.167		24.21		7.466	8.291	0.00	0.00 104.23
8	3	0	0	0	0	0	95.167		24.21		7.217	9.310	0.00	0.00 104.23

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1666' Guyed Tower, REVISED ANALYSIS, 75 Mph Basic Vel., EIA/TIA 222F    WIND R
 2  7  0 -1  1 1 7     0. 0. 0. 0.     0.000      30.0   0.
 3  1  3  1  1 1 0    81.200      0.00      0.00      0.00 0.00      0.00      0.00
 3  2  3  1  1 1 0    87.900      0.00      0.00      0.00 0.00      0.00      0.00
 3  3  3  1  1 1 0    92.600      0.00      0.00      0.00 0.00      0.00      0.00
 3  4  3  1  1 1 0    96.200      0.00      0.00      0.00 0.00      0.00      0.00
 3  5  3  1  1 1 0    99.200      0.00      0.00      0.00 0.00      0.00      0.00
 3  6  3  1  1 1 0   101.700      0.00      0.00      0.00 0.00      0.00      0.00
 3  7  3  1  1 1 0   103.900      0.00      0.00      0.00 0.00      0.00      0.00
 4  1  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  2  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  3  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  4  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  5  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  6  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 4  7  1  0  0 0 0     0.00      0.00    0. 0. 0. 0. 0.
 5  1  1  1  6 0 0     0.10      0.08      0.00      0.00      0.00      0.00 0.
 5  2  1  2  1 0 0     0.10      0.09      0.00      0.00      0.00      0.00 0.
 5  2  2  2  5 0 0     0.10      0.09      0.00      0.00      0.00      0.00 0.
 5  2  3  2 13 0 0     0.10      0.09      0.00      0.00      0.00      0.00 0.
 5  2  4  2 15 0 0     0.10      0.09      0.00      0.00      0.00      0.00 0.
 5  2  5  2 17 0 0     0.10      0.09      0.00      0.00      0.00      0.00 0.
 5  2  6  2 19 0 0     0.10      0.25      0.00      0.00      0.00      0.00 0.
 5  3  1  3  8 0 0     0.20      0.30      0.00      0.00      0.00      0.00 0.
 5  4  1  4  1 0 0     0.10      0.14      0.00      0.00      0.00      0.00 0.
 5  4  2  4 16 0 0     0.10      0.15      0.00      0.00      0.00      0.00 0.
 5  4  3  4 18 0 0     0.10      0.15      0.00      0.00      0.00      0.00 0.
 5  5  1  5  3 0 0     0.10      0.15      0.00      0.00      0.00      0.00 0.
 5  5  2  5  5 0 0     0.10      0.16      0.00      0.00      0.00      0.00 0.
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1666' Guyed Tower, REVISED ANALYSIS, 75 Mph Basic Vel., EIA/TIA 222E WIND C

2	7	0	2	1	1	7	0.	0.	0.	0.	0.000	30.0	0.	
3	1	3	1	1	1	0	81.200	0.00	0.00	0.00	0.00	0.00	0.00	
3	2	3	1	1	1	0	87.900	0.00	0.00	0.00	0.00	0.00	0.00	
3	3	3	1	1	1	0	92.600	0.00	0.00	0.00	0.00	0.00	0.00	
3	4	3	1	1	1	0	96.200	0.00	0.00	0.00	0.00	0.00	0.00	
3	5	3	1	1	1	0	99.200	0.00	0.00	0.00	0.00	0.00	0.00	
3	6	3	1	1	1	0	101.700	0.00	0.00	0.00	0.00	0.00	0.00	
3	7	3	1	1	1	0	103.900	0.00	0.00	0.00	0.00	0.00	0.00	
4	1	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	2	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	3	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	4	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	5	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	6	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
4	7	1	0	0	0	0	30.00	0.00	0.	0.	0.	0.	0.	
5	1	1	1	6	0	0	0.10	0.08	0.00	0.00	0.00	0.00	0.	
5	2	1	2	1	0	0	0.10	0.09	0.00	0.00	0.00	0.00	0.	
5	2	2	2	5	0	0	0.10	0.09	0.00	0.00	0.00	0.00	0.	
5	2	3	2	13	0	0	0.10	0.09	0.00	0.00	0.00	0.00	0.	
5	2	4	2	15	0	0	0.10	0.09	0.00	0.00	0.00	0.00	0.	
5	2	5	2	17	0	0	0.10	0.09	0.00	0.00	0.00	0.00	0.	
5	2	6	2	19	0	0	0.10	0.25	0.00	0.00	0.00	0.00	0.	
5	3	1	3	8	0	0	0.20	0.30	0.00	0.00	0.00	0.00	0.	
5	4	1	4	1	0	0	0.10	0.14	0.00	0.00	0.00	0.00	0.	
5	4	2	4	16	0	0	0.10	0.15	0.00	0.00	0.00	0.00	0.	
5	4	3	4	18	0	0	0.10	0.15	0.00	0.00	0.00	0.00	0.	
5	5	1	5	3	0	0	0.10	0.15	0.00	0.00	0.00	0.00	0.	
5	5	2	5	5	0	0	0.10	0.16	0.00	0.00	0.00	0.00	0.	
5	5	3	5	5	0	0	0.10	0.16	0.00	0.00	0.00	0.00	0.	
5	6	1	6	2	0	0	0.10	0.16	0.00	0.00	0.00	0.00	0.	
5	6	2	6	5	0	0	0.10	0.16	0.00	0.00	0.00	0.00	0.	
5	6	3	6	7	0	0	0.10	0.16	0.00	0.00	0.00	0.00	0.	
5	6	4	6	10	0	0	0.10	0.17	0.00	0.00	0.00	0.00	0.	
5	6	5	6	13	0	0	0.10	0.17	0.00	0.00	0.00	0.00	0.	
5	6	6	6	15	0	0	0.15	0.24	0.00	0.00	0.00	0.00	0.	
5	6	7	6	19	0	0	0.15	0.24	0.00	0.00	0.00	0.00	0.	
5	7	1	7	4	0	0	0.15	0.24	0.00	0.00	0.00	0.00	0.	
5	7	2	7	8	0	0	0.15	0.24	0.00	0.00	0.00	0.00	0.	
5	7	3	7	12	0	0	0.15	0.24	0.00	0.00	0.00	0.00	0.	
5	7	4	7	14	0	0	0.15	0.20	0.00	0.00	0.00	0.00	0.	
5	7	5	7	16	0	0	0.15	0.20	0.00	0.00	0.00	0.00	0.	
5	7	6	7	16	0	0	0.10	0.18	0.00	0.00	0.00	0.00	0.	
6	1	1	0	0	0	0	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	
6	2	1	0	0	0	0	260.00	198.50	4.00	0.8130	0.6250	4700.	2.500	
6	3	1	0	0	0	0	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	
6	4	1	0	0	0	0	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	
6	5	1	0	0	0	0	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	
6	6	1	0	0	0	0	400.00	583.00	7.00	1.5810	0.8750	9340.	2.500	
6	7	1	0	0	0	0	400.00	678.00	12.00	2.0730	1.0000	11940.	2.500	
8	1	0	0	0	0	0	93.500	24.21	7.230	5.734	0.00	0.00	104.23	
8	2	0	0	0	0	0	95.167	24.21	7.466	8.291	0.00	0.00	104.23	
8	3	0	0	0	0	0	95.167	24.21	7.217	9.310	0.00	0.00	104.23	
8	4	0	0	0	0	0	95.167	24.21	7.113	10.093	0.00	0.00	104.23	
8	5	0	0	0	0	0	94.500	24.21	6.849	9.967	0.00	0.00	104.23	
8	6	0	0	0	0	0	95.167	19.55	6.118	9.567	0.00	0.00	104.23	
8	7	0	0	0	0	0	94.432	17.89	5.596	8.388	0.00	0.00	104.23	
9	0	0	0	0	3	1	18.00	8.90	393.80	0.	0.	0.00	0.	
10	1	17	1	0	0	0	4.000	5.000	3.500	5.000	0.	0.	0.	
10	2	17	1	0	0	0	4.000	5.084	5.083	5.000	0.	0.	0.	
10	3	17	1	0	0	0	4.000	5.084	5.083	5.000	0.	0.	0.	
10	4	17	1	0	0	0	4.000	5.084	5.083	5.000	0.	0.	0.	

PART III
COMPUTER ANALYSIS RESULTS

CONTROL PARAMETERS

7 GUY LEVELS
NGED BASE
D LOADING DIRECTION 'A'
WO-WAY BENDING CONSIDERED
WIND LOADS ARE INPUT ITEMS

ANALYSIS PARAMETERS

0.000 INCH RADIAL ICE ON GUYS (SP WT 56.0 LB/CUFT)
AMBIENT TEMPERATURE = 30.00 DEG F
NORMAL TEMPERATURE = 70.00 DEG F
HEIGHT TO TOWER BASE = 0.0 FT
TOWER SHAFT MODULUS OF ELASTICITY = 29000.

INPUT ECHO: LOCAL LOADS AT GUY LEVELS AND PULL-OFF DATA

LVL	WIND VEL (MI/HR)	CONCENTRATED LOADS (KIPS) VERTICAL	HORIZONTAL WINDWARD	HORIZONTAL NORMAL	MOMENTS (KIP-FT) WINDWARD	MOMENTS (KIP-FT) NORMAL	MOMENTS (KIP-FT) TWIST	INSULATOR CLUSTERS WEIGHT (KIPS)	INSULATOR CLUSTERS DRAG (KIPS)
1	81.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	87.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	92.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	96.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	99.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	101.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	103.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP		18.00	8.90	0.00	393.80	0.00	0.00		

INPUT ECHO: SPAN LOADS CONCENTRATED AT PANEL POINTS

SPAN	POINT	VERTICAL (KIPS)	HORIZONTAL (KIPS) WINDWARD	HORIZONTAL (KIPS) NORMAL	MOMENTS (KIP-FT) WINDWARD	MOMENTS (KIP-FT) NORMAL	MOMENTS (KIP-FT) TWIST
1	6	0.10	0.08	0.00	0.00	0.00	0.00
2	1	0.10	0.09	0.00	0.00	0.00	0.00
2	5	0.10	0.09	0.00	0.00	0.00	0.00
2	13	0.10	0.09	0.00	0.00	0.00	0.00
2	15	0.10	0.09	0.00	0.00	0.00	0.00
2	17	0.10	0.09	0.00	0.00	0.00	0.00
2	19	0.10	0.25	0.00	0.00	0.00	0.00
3	8	0.20	0.30	0.00	0.00	0.00	0.00
4	1	0.10	0.14	0.00	0.00	0.00	0.00
4	16	0.10	0.15	0.00	0.00	0.00	0.00
4	18	0.10	0.15	0.00	0.00	0.00	0.00
5	3	0.10	0.15	0.00	0.00	0.00	0.00
5	5	0.10	0.16	0.00	0.00	0.00	0.00
5	5	0.10	0.16	0.00	0.00	0.00	0.00
6	2	0.10	0.16	0.00	0.00	0.00	0.00
6	5	0.10	0.16	0.00	0.00	0.00	0.00
6	7	0.10	0.16	0.00	0.00	0.00	0.00
6	10	0.10	0.17	0.00	0.00	0.00	0.00
6	13	0.10	0.17	0.00	0.00	0.00	0.00
6	15	0.15	0.24	0.00	0.00	0.00	0.00
6	19	0.15	0.24	0.00	0.00	0.00	0.00
7	4	0.15	0.24	0.00	0.00	0.00	0.00
7	8	0.15	0.24	0.00	0.00	0.00	0.00
7	12	0.15	0.24	0.00	0.00	0.00	0.00
7	14	0.15	0.20	0.00	0.00	0.00	0.00
7	16	0.15	0.20	0.00	0.00	0.00	0.00
7	16	0.10	0.18	0.00	0.00	0.00	0.00

INPUT ECHO: SPAN DATA

SPAN	LENGTH (FT)	FACE WD (FT)	PANEL TYPE	PANEL HT (FT) TOP	PANEL HT (FT) BOTTOM	PANEL HT (FT) UNIFORM	# UNIF PANELS	SPAN MOM OF INER (INFT)**2	SPAN TORS STIFFNESS (KIP-FT)	SPAN WEIGHT (KIPS)	SPAN WIND LOAD (KIPS)
	93.500	4.000	N	5.000	3.500	5.000	17	24.21	104.23	7.23	5.734
2	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.47	8.291
3	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.22	9.310
4	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.11	10.093
5	94.500	4.000	N	4.750	4.750	5.000	17	24.21	104.23	6.85	9.967
6	95.167	4.000	N	5.084	5.083	5.000	17	19.55	104.23	6.12	9.567
7	94.432	4.000	N	4.716	4.716	5.000	17	17.89	104.23	5.60	8.388

INPUT ECHO: GUY DATA AND RELATED INFORMATION

	GUY #	DISTANCE (FT) HORIZ	DISTANCE (FT) VERT	TENS (KIPS)	UNIT WT (LB/FT)	DIAM (IN)	AE (KIPS)	LEV ARM (FT)	WIND ANGLES (DEG) WIND TO GUY	WIND ANGLES (DEG) WIND TO LEV ARM	INSULATORS ON GUY WEIGHT (LBS)	INSULATORS ON GUY AREA (SQFT)	INSULATORS ON GUY LENGTH (FT)	ANCHOR PIN HT ABV GND (FT)
1	1	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	60.00	60.00	0.00	0.00	0.000	
1	2	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	180.00	180.00	0.00	0.00	0.000	
1	3	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	300.00	300.00	0.00	0.00	0.000	
2	1	260.00	198.50	4.00	0.8130	0.6250	4700.	2.500	60.00	60.00	0.00	0.00	0.000	
2	2	260.00	198.50	4.00	0.8130	0.6250	4700.	2.500	180.00	180.00	0.00	0.00	0.000	
2	3	260.00	198.50	4.00	0.8130	0.6250	4700.	2.500	300.00	300.00	0.00	0.00	0.000	
3	1	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	60.00	60.00	0.00	0.00	0.000	
3	2	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	180.00	180.00	0.00	0.00	0.000	
3	3	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	300.00	300.00	0.00	0.00	0.000	
4	1	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	60.00	60.00	0.00	0.00	0.000	
4	2	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	180.00	180.00	0.00	0.00	0.000	
4	3	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	300.00	300.00	0.00	0.00	0.000	
5	1	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	60.00	60.00	0.00	0.00	0.000	
5	2	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	180.00	180.00	0.00	0.00	0.000	
5	3	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	300.00	300.00	0.00	0.00	0.000	
6	1	400.00	583.00	7.00	1.5810	0.8750	9340.	2.500	60.00	60.00	0.00	0.00	0.000	
6	2	400.00	583.00	7.00	1.5810	0.8750	9340.	2.500	180.00	180.00	0.00	0.00	0.000	
6	3	400.00	583.00	7.00	1.5810	0.8750	9340.	2.500	300.00	300.00	0.00	0.00	0.000	
7	1	400.00	678.00	12.00	2.0730	1.0000	11940.	2.500	60.00	60.00	0.00	0.00	0.000	
7	2	400.00	678.00	12.00	2.0730	1.0000	11940.	2.500	180.00	180.00	0.00	0.00	0.000	
7	3	400.00	678.00	12.00	2.0730	1.0000	11940.	2.500	300.00	300.00	0.00	0.00	0.000	

OUTPUT: WIND LOADS

SPAN	TOWER WIND LOAD (KIPS)	LEVEL	INSULATOR CLUSTERS WIND LOAD (KIPS)
1	5.73	1	0.00
2	8.29	2	0.00
3	9.31	3	0.00
4	10.09	4	0.00
5	9.97	5	0.00
6	9.57	6	0.00
7	8.39	7	0.00

OUTPUT: GUY WEIGHTS, LENGTHS AND FORCES

LVL	GUY #	EFF D (IN)	TOTAL WT (KIPS)	UNSTRESSED LENGTH (FT)	FORCES AT TOWER (KIPS) TENSION	WINDWARD	NORMAL	VERT	FORCES AT ANCHORAGE (KIPS) UPLIFT	M	N	TWIST (KIP-FT)
1	1	0.6250	0.227	279.56	9.56	4.38	7.68	3.64	3.46	9.03	0.06	-0.125
1	2	0.6250	0.227	279.56	1.41	-1.28	0.00	0.60	0.41	1.26	0.00	0.000
1	3	0.6250	0.227	279.56	9.57	4.38	-7.68	3.64	3.46	9.03	-0.06	0.125
2	1	0.6250	0.266	326.86	11.42	4.44	7.83	7.03	6.86	9.24	0.11	-0.183
2	2	0.6250	0.266	326.86	0.36	-0.26	0.00	0.24	0.09	0.17	0.00	0.000
2	3	0.6250	0.266	326.86	11.43	4.44	-7.83	7.04	6.86	9.25	-0.11	0.183
3	1	0.7500	0.453	392.15	20.42	6.61	11.64	15.42	15.12	13.76	0.20	-0.241
3	2	0.7500	0.453	392.15	0.40	-0.29	0.00	0.28	0.07	0.02	0.00	0.000
3	3	0.7500	0.453	392.15	20.42	6.61	-11.64	15.42	15.12	13.76	-0.20	0.241
4	1	0.6250	0.456	560.75	14.86	5.07	9.12	10.58	10.32	10.92	0.25	-0.418
4	2	0.6250	0.456	560.75	0.44	-0.34	0.00	0.28	0.11	0.05	0.00	0.000
4	3	0.6250	0.456	560.75	14.86	5.07	-9.12	10.58	10.32	10.92	-0.25	0.418
5	1	0.7500	0.728	630.54	17.47	5.12	9.50	13.74	13.29	11.47	0.39	-0.786
5	2	0.7500	0.728	630.54	1.31	-0.92	0.00	0.93	0.65	0.37	0.00	0.000
	3	0.7500	0.728	630.54	17.47	5.12	-9.49	13.74	13.29	11.46	-0.39	0.786
6	1	0.8750	1.117	706.67	20.27	5.08	9.78	17.01	16.26	11.93	0.57	-1.228
6	2	0.8750	1.117	706.67	2.56	-1.64	0.00	1.97	1.48	0.72	0.00	0.000
6	3	0.8750	1.117	706.67	20.27	5.08	-9.78	17.01	16.26	11.93	-0.57	1.228
7	1	1.0000	1.630	786.50	41.24	9.79	17.90	35.84	34.67	21.60	0.78	-1.173
7	2	1.0000	1.630	786.50	3.32	-2.00	0.00	2.65	1.84	0.61	0.00	0.000
7	3	1.0000	1.630	786.50	41.24	9.79	-17.90	35.84	34.67	21.60	-0.78	1.173