/TPREP/ TRANSMISSION LINE PREPARATION
JOB: 599' Guyed Tower, 75 Mph Basic Vel., EIA 222E - 3 BUNDLES, 2 RIGIDS

24 TRANSMISSION LINES
7 SPANS
BASIC WIND VELOCITY: 75.000
ICE RADIUS : 0.000
GUST RESPONCE (GH) : 1.047
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	599.00
2	3-1/8" R.C.	2.60	0.3125	100.00	10.00	599.00
3	3-1/8" R.C.	2.60	0.3125	100.00	10.00	599.00
4	1" COND.	1.68	0.1315	100.00	10.00	599.00
5	7/8" HELIAX	0.54	0.1110	100.00	10.00	587.00
6	3" HELIAX	1.80	0.3030	100.00	10.00	573.00
7	7/8" HELIAX	0.54	0.1110	100.00	10.00	537.00
8	1-5/8" HELIAX	1.04	0.1980	100.00	10.00	524.00
9	7/8" HELIAX	0.54	0.1110	75.00	10.00	523.00
10	7/8" HELIAX	0.54	0.1110	75.00	10.00	511.00
11	7/8" HELIAX	0.54	0.1110	75.00	10.00	501.00
12	7/8" HELIAX	0.54	0.1110	50.00	10.00	486.00
13	7/8" HELIAX	0.54	0.1110	50.00	10.00	403.00
14	7/8" HELIAX	0.54	0.1110	50.00	10.00	402.00
15	7/8" HELIAX	0.54	0.1110	25.00	10.00	393.00
16	7/8" HELIAX	0.54	0.1110	25.00	10.00	375.00
17	7/8" HELIAX	0.54	0.1110	25.00	10.00	363.00
18	7/8" HELIAX	0.54	0.1110	25.00	10.00	289.00
19	1-5/8" HELIAX	1.04	0.1980	25.00	10.00	230.00
20	1-5/8" HELIAX	1.04	0.1980	25.00	10.00	190.00
21	1-5/8" HELIAX	1.04	0.1980	0.00	10.00	170.00
22	7/8" HELIAX	0.54	0.1110	0.00	10.00	119.00
23	7/8" HELIAX	0.54	0.1110	0.00	10.00	98.00
24	7/8" HELIAX	0.54	0.1110	0.00	10.00	30.00

SPAN DATA

SPAN	LENGTH (FT)	WIND PRES (PSF)	XMSN WT (KIPS)	WIND LOAD (KIPS)
1	93.500	17.021	2.132	3.313
2	95.167	22.780	2.311	5.053
3	95.167	26.441	2.062	5.672
4	95.167	29.135	1.958	6.099
5	94.500	31.310	1.730	6.040
6	95.167	33.160	1.509	5.308
7	29.832	34.258	0.372	1.118

/OMNIDAT/ REMAINING TOWER INPUT DATA
JOB: 599 Ft. Guyed Tower - REVISED HEIGHT - 75 Mph Basic Vel., EIA 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	81.400	0.00	0.00
2	3	88.100	0.00	0.00
3	3	92.900	0.00	0.00
4	3	96.500	0.00	0.00
5	3	99.500	0.00	0.00
6	3	102.000	0.00	0.00
7	3	102.700	0.00	0.00

LVL	MOMENTS (KIP-FT) WINDWARD DIRECTION			NORMAL DIRECTION			TORQUES (KIP-FT) WINDWARD DIRECTION		
	A	B	C	A	B	C	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		

599 Ft. Guyed Tower - REVISED HEIGHT - 75 Mph Basic Vel., EIA 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

599 Ft. Guyed Tower - REVISED HEIGHT - 75 Mph Basic Vel., EIA 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	5.00	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	6.00	EHS19	1.1550	0.7500	6720.	58.30	2.500

/ATLAS/ ALLOWABLE TOWER LOADS
JOB: 599 Ft. Guyed Tower - REVISED HEIGHT - 75 Mph Basic Vel., 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

ANALYSIS

CASE 3(a)

/TPREP/ TRANSMISSION LINE PREPARATION
JOB: 599' Guyed Tower, 75 Mph Basic Vel., EIA 222E - 3 BUNDLES, 1 RIGID

23 TRANSMISSION LINES
7 SPANS
BASIC WIND VELOCITY: 75.000
ICE RADIUS : 0.000
GUST RESPONCE (GH) : 1.047
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	599.00
2	3-1/8" R.C.	2.60	0.3125	100.00	10.00	599.00
3	1" COND.	1.68	0.1315	100.00	10.00	599.00
4	7/8" HELIAX	0.54	0.1110	100.00	10.00	587.00
5	3" HELIAX	1.80	0.3030	100.00	10.00	573.00
6	7/8" HELIAX	0.54	0.1110	100.00	10.00	537.00
7	1-5/8" HELIAX	1.04	0.1980	100.00	10.00	524.00
8	7/8" HELIAX	0.54	0.1110	75.00	10.00	523.00
9	7/8" HELIAX	0.54	0.1110	75.00	10.00	511.00
10	7/8" HELIAX	0.54	0.1110	75.00	10.00	501.00
11	7/8" HELIAX	0.54	0.1110	50.00	10.00	486.00
12	7/8" HELIAX	0.54	0.1110	50.00	10.00	403.00
13	7/8" HELIAX	0.54	0.1110	50.00	10.00	402.00
14	7/8" HELIAX	0.54	0.1110	25.00	10.00	393.00
15	7/8" HELIAX	0.54	0.1110	25.00	10.00	375.00
16	7/8" HELIAX	0.54	0.1110	25.00	10.00	363.00
17	7/8" HELIAX	0.54	0.1110	25.00	10.00	289.00
18	1-5/8" HELIAX	1.04	0.1980	25.00	10.00	230.00
19	1-5/8" HELIAX	1.04	0.1980	25.00	10.00	190.00
20	1-5/8" HELIAX	1.04	0.1980	0.00	10.00	170.00
21	7/8" HELIAX	0.54	0.1110	0.00	10.00	119.00
22	7/8" HELIAX	0.54	0.1110	0.00	10.00	98.00
23	7/8" HELIAX	0.54	0.1110	0.00	10.00	30.00

SPAN DATA

SPAN	LENGTH (FT)	WIND PRES (PSF)	XMSN WT (KIPS)	WIND LOAD (KIPS)
1	93.500	17.021	1.915	2.868
2	95.167	22.780	2.064	4.375
3	95.167	26.441	1.814	4.895
4	95.167	29.135	1.711	5.233
5	94.500	31.310	1.484	5.116
6	95.167	33.160	1.261	4.322
7	29.832	34.258	0.295	0.798

ANALYSIS

CASE 4(a)

/TPREP/ TRANSMISSION LINE PREPARATION
JOB: 599' Guyed Tower - 75 Mph Basic Vel., EIA 222E - 1 BUNDLE, 1 RIGID

23 TRANSMISSION LINES
7 SPANS

BASIC WIND VELOCITY:	75.000
ICE RADIUS :	0.000
GUST RESPONCE (GH) :	1.047
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	599.00
2	3-1/8" R.C.	2.60	0.3125	100.00	10.00	599.00
3	1" COND.	1.68	0.1315	100.00	10.00	599.00
4	7/8" HELIAX	0.54	0.1110	100.00	10.00	587.00
5	3" HELIAX	1.80	0.3030	100.00	10.00	573.00
6	7/8" HELIAX	0.54	0.1110	100.00	10.00	537.00
7	1-5/8" HELIAX	1.04	0.1980	75.00	10.00	524.00
8	7/8" HELIAX	0.54	0.1110	75.00	10.00	523.00
9	7/8" HELIAX	0.54	0.1110	50.00	10.00	511.00
10	7/8" HELIAX	0.54	0.1110	50.00	10.00	501.00
11	7/8" HELIAX	0.54	0.1110	25.00	10.00	486.00
12	7/8" HELIAX	0.54	0.1110	25.00	10.00	403.00
13	7/8" HELIAX	0.54	0.1110	25.00	10.00	402.00
14	7/8" HELIAX	0.54	0.1110	25.00	10.00	393.00
15	7/8" HELIAX	0.54	0.1110	25.00	10.00	375.00
16	7/8" HELIAX	0.54	0.1110	25.00	10.00	363.00
17	7/8" HELIAX	0.54	0.1110	0.00	10.00	289.00
18	1-5/8" HELIAX	1.04	0.1980	0.00	10.00	230.00
19	1-5/8" HELIAX	1.04	0.1980	0.00	10.00	190.00
20	1-5/8" HELIAX	1.04	0.1980	0.00	10.00	170.00
21	7/8" HELIAX	0.54	0.1110	0.00	10.00	119.00
22	7/8" HELIAX	0.54	0.1110	0.00	10.00	98.00
23	7/8" HELIAX	0.54	0.1110	0.00	10.00	30.00

SPAN DATA

SPAN	LENGTH (FT)	WIND PRES (PSF)	XMSN WT (KIPS)	WIND LOAD (KIPS)
1	93.500	17.021	1.915	2.421
2	95.167	22.780	2.064	3.692
3	95.167	26.441	1.814	4.286
4	95.167	29.135	1.711	4.706
5	94.500	31.310	1.484	4.682
6	95.167	33.160	1.261	4.168
7	29.832	34.258	0.295	0.798

PART II
COMPUTER INPUT DATA

PART III
COMPUTER ANALYSIS RESULTS

ANALYSIS

CASE 2(a)

CONTROL PARAMETERS

GUY LEVELS
HINGED BASE
WIND LOADING DIRECTION 'A'
TWO-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 = 20.00 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	81.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	88.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	92.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	96.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	99.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	102.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	102.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP		17.00	8.70	0.00	384.80	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
	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
2	9	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	13	0.10	0.15	0.00	0.00	0.00	0.00
4	19	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	9	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
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	3	0.15	0.24	0.00	0.00	0.00	0.00
6	6	0.15	0.24	0.00	0.00	0.00	0.00
6	10	0.15	0.24	0.00	0.00	0.00	0.00
6	14	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	1	0.15	0.20	0.00	0.00	0.00	0.00
7	2	0.15	0.20	0.00	0.00	0.00	0.00
7	3	0.10	0.19	0.00	0.00	0.00	0.00

INPUT ECHO: SPAN DATA

N	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)
1	97.500	4.000	N	5.000	3.500	5.000	17	24.21	106.33	7.37	5.701
2	92.157	4.000	N	5.083	5.083	5.000	17	24.21	104.27	7.37	7.751
3	95.157	4.000	N	5.084	5.083	5.000	17	24.21	106.33	7.22	9.503
4	95.157	4.000	N	5.084	5.083	5.000	17	24.21	106.33	7.24	9.549
5	94.500	4.000	N	4.750	4.750	5.000	17	24.21	104.33	6.85	9.737
6	95.157	4.000	N	5.084	5.083	5.000	17	24.21	106.33	7.07	9.235

"OUT BOARD" GUY DATA AND RELATED INFORMATION

LVL	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	5.00	0.8130	0.6250	4700.	2.500	60.00	60.00	0.00	0.00	0.000	
2	2	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	180.00	180.00	0.00	0.00	0.000	
2	3	260.00	198.50	5.00	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	6.00	1.1550	0.7500	6720.	2.500	60.00	60.00	0.00	0.00	0.000	
6	2	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	180.00	180.00	0.00	0.00	0.000	
6	3	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	300.00	300.00	0.00	0.00	0.000	
7	1	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	60.00	60.00	0.00	0.00	0.000	
7	2	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	180.00	180.00	0.00	0.00	0.000	
7	3	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	300.00	300.00	0.00	0.00	0.000	

VLISSIDES

OUTPUT: WIND

[illegible]	TOWER [illegible]
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]
7	[illegible]

OUTPUT: GUY [illegible]

LVL	GUY #	EFF [illegible] (IN
1	1	0.62
1	2	0.62
1	3	0.62
2	1	0.62
2	2	0.62
2	3	0.62
3	1	0.75
3	2	0.75
3	3	0.75
4	1	0.62
4	2	0.62
4	3	0.62
[illegible]	1	0.75
[illegible]	2	0.75
5	3	0.75
6	1	0.75
6	2	0.75
6	3	0.75
7	1	1.00
7	2	1.00
7	3	1.00

TOWER BEHAVIOR AT GUY LEVELS

DEFLECTION (FT) WINDWARD	DEFLECTION (FT) NORMAL	TWIST (DEG)	REACTIONS (KIPS) WINDWARD	REACTIONS (KIPS) NORMAL	REACTIONS (KIPS) VERT	REACTIONS (KIP-FT) WINDWARD	REACTIONS (KIP-FT) NORMAL	REACTIONS (KIP-FT) TWIST	AXIAL FORCE (KIPS)	PHI

CONTROL PARAMETERS

GUY LEVELS
HINGED BASE
WIND LOADING DIRECTION 'B'
TWO-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	81.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	88.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	92.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	96.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	99.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	102.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	102.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP		17.00	8.70	0.00	384.80	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	11	0.10	0.15	0.00	0.00	0.00	0.00
4	19	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	9	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	3	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	12	0.10	0.17	0.00	0.00	0.00	0.00
6	9	0.15	0.24	0.00	0.00	0.00	0.00
6	1	0.15	0.24	0.00	0.00	0.00	0.00
6	13	0.15	0.24	0.00	0.00	0.00	0.00
6	14	0.15	0.24	0.00	0.00	0.00	0.00
6	15	0.15	0.24	0.00	0.00	0.00	0.00
7	1	0.15	0.20	0.00	0.00	0.00	0.00
7	3	0.15	0.20	0.00	0.00	0.00	0.00
7	5	0.10	0.18	0.00	0.00	0.00	0.00

INPUT ECHO: SPAN DATA

N	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)
1	92.500	4.000	N	5.000	3.500	5.000	17	24.21	104.23	7.33	5.301
2	85.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.47	7.751
3	85.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.22	8.867
4	85.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.11	9.549
5	84.500	4.000	N	4.750	4.750	5.000	17	24.21	104.23	6.85	9.722
6	85.167	4.000	N	5.084	5.083	5.000	17	19.55	104.23	5.97	9.235

'PUT ECHO: GUY DATA AND RELATED INFORMATION

LVL	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)	GUY LENGTH (FT)	ANCHOR PIN HT ABV GND (FT)
1	1	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	0.00	0.00	0.00	0.00	0.000	
1	2	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	120.00	120.00	0.00	0.00	0.000	
1	3	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	240.00	240.00	0.00	0.00	0.000	
2	1	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	0.00	0.00	0.00	0.00	0.000	
2	2	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	120.00	120.00	0.00	0.00	0.000	
2	3	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	240.00	240.00	0.00	0.00	0.000	
3	1	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	0.00	0.00	0.00	0.00	0.000	
3	2	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	120.00	120.00	0.00	0.00	0.000	
3	3	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	240.00	240.00	0.00	0.00	0.000	
4	1	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	0.00	0.00	0.00	0.00	0.000	
4	2	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	120.00	120.00	0.00	0.00	0.000	
4	3	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	240.00	240.00	0.00	0.00	0.000	
5	1	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	0.00	0.00	0.00	0.00	0.000	
5	2	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	120.00	120.00	0.00	0.00	0.000	
5	3	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	240.00	240.00	0.00	0.00	0.000	
6	1	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	0.00	0.00	0.00	0.00	0.000	
6	2	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	120.00	120.00	0.00	0.00	0.000	
6	3	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	240.00	240.00	0.00	0.00	0.000	
7	1	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	0.00	0.00	0.00	0.00	0.000	
7	2	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	120.00	120.00	0.00	0.00	0.000	
7	3	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	240.00	240.00	0.00	0.00	0.000	

OUTPUT: WIND LOADS

LEVEL	TOWER WIND LOAD (KIPS)	LEVEL	INSULATOR CLUSTERS WIND LOAD (KIPS)
1	5.30	1	0.00
2	7.75	2	0.00
3	9.80	3	0.00
4	9.55	4	0.00
5	9.72	5	0.00
6	9.24	6	0.00
7	2.39	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	12.00	11.12	0.00	4.52	4.33	11.13	0.00	0.000
1	2	0.6250	0.227	279.56	3.79	-1.84	2.97	1.48	1.30	3.47	0.11	-0.273
1	3	0.6250	0.227	279.56	3.79	-1.84	-2.97	1.48	1.30	3.47	-0.11	0.273
2	1	0.6250	0.266	326.78	14.15	11.21	0.00	8.64	8.49	11.30	0.00	0.000
2	2	0.6250	0.266	326.78	3.37	-1.46	2.21	2.08	1.91	2.57	0.16	-0.387
2	3	0.6250	0.266	326.78	3.37	-1.46	-2.21	2.08	1.91	2.57	-0.16	0.387
3	1	0.7500	0.453	392.15	21.85	14.39	0.00	16.44	16.23	14.66	0.00	0.000
3	2	0.7500	0.453	392.15	4.06	-1.55	2.17	3.06	2.76	2.48	0.27	-0.635
3	3	0.7500	0.453	392.15	4.06	-1.55	-2.17	3.06	2.76	2.48	-0.27	0.635
4	1	0.6250	0.456	560.75	17.64	12.50	0.00	12.45	12.28	12.79	0.00	0.000
4	2	0.6250	0.456	560.75	3.76	-1.61	2.13	2.65	2.39	2.46	0.34	-0.813
4	3	0.6250	0.456	560.75	3.76	-1.61	-2.13	2.65	2.39	2.46	-0.34	0.813
	1	0.7500	0.728	630.54	22.40	14.02	0.00	17.47	17.19	14.58	0.00	0.000
	2	0.7500	0.728	630.54	5.95	-2.28	3.00	4.60	4.15	3.41	0.49	-1.193
5	3	0.7500	0.728	630.54	5.95	-2.28	-3.00	4.60	4.15	3.41	-0.49	1.193
6	1	0.7500	0.816	706.52	19.54	10.94	0.00	16.55	16.28	11.74	0.00	0.000
6	2	0.7500	0.816	706.52	7.16	-2.52	3.24	5.86	5.36	3.61	0.59	-1.412
6	7	0.7500	0.816	706.52	7.16	-2.52	-3.24	5.86	5.36	3.61	-0.59	1.412
7	1	1.0000	1.515	730.66	37.59	20.10	0.00	31.77	31.01	21.26	0.00	0.000
7	2	1.0000	1.515	730.66	10.14	-3.43	4.37	8.48	7.40	4.84	0.82	-1.966
7	3	1.0000	1.515	730.66	10.14	-3.43	-4.37	8.48	7.40	4.85	-0.82	1.966

OUTPUT: TOWER BEHAVIOR AT GUY LEVELS

	DEFLECTION (FT)		TWIST	REACTIONS (KIPS)			REACTIONS (KIP-FT)			AXIAL FORCE	PHI
	WINDWARD	NORMAL	(DEG)	WINDWARD	NORMAL	VERT	WINDWARD	NORMAL	TWIST	(KIPS)	
1	0.397	0.000	0.000	7.44	0.00	7.47	7.59	0.00	0.00	224.40	1.46040
2	0.755	0.000	0.000	8.30	0.00	12.80	16.39	0.00	0.00	209.32	1.43887
3	1.370	0.000	0.000	11.29	0.00	22.56	33.44	0.00	0.00	188.69	1.38099
4	2.356	0.000	0.000	9.29	0.00	17.75	24.49	0.00	0.00	158.76	1.30420
5	2.491	0.000	0.000	9.46	0.00	26.66	32.18	0.00	0.00	133.62	1.24129
6	2.621	0.000	0.000	5.90	0.00	28.28	26.72	0.00	0.00	99.77	1.22327
7	3.175	0.000	0.000	13.24	0.00	48.73	58.21	0.00	0.00	66.75	1.01352

OUTPUT: BEHAVIOR AT TOWER EXTREMITIES

BASE MOMENTS (KIP-FT)		BASE SHEAR (KIPS)		BASE VERTICAL	CANTILEVER DEFL (FT)		MOMENT ABOVE TOP GL (KIP-FT)	
WINDWARD	NORMAL	WINDWARD	NORMAL	(KIPS)	WINDWARD	NORMAL	WINDWARD	NORMAL
0.00	0.00	1.14	0.00	229.08	3.175	0.000	-384.80	0.00

OUTPUT: SPAN PARAMETERS

SPAN	BENDING MOMENTS (KIP-FT)				TOTAL SHEARS (KIPS)			
	WINDWARD		NORMAL		WINDWARD		NORMAL	
	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM
1	-58.01	0.00	0.02	0.00	-3.44	2.54	0.00	0.00
2	-75.80	-65.60	-0.04	0.02	-4.14	3.94	0.00	0.00
3	-122.69	-92.19	0.01	-0.04	-4.27	3.82	0.00	0.00
4	27.67	-156.13	0.05	0.00	-3.67	6.73	0.00	0.00
5	-44.85	3.17	0.00	0.05	-6.05	5.45	0.00	0.00
6	-243.93	-77.03	-0.01	0.00	-6.42	3.51	0.00	0.00
7	-326.60	-270.65	0.00	-0.01	-2.71	-0.87	0.00	0.00

OUTPUT: TOTAL FORCES AT GUY ANCHORS

ANCHOR	LOCATION		TOTAL FORCES (KIPS)			
#	REF ANGLE (DEG)	HORIZ DIST (FT)	UPLIFT	M	RESULT	ELEV ANGLE (DEG)
1	0.00	260.00	29.05	37.09	47.11	38.07
2	120.00	260.00	5.97	8.52	10.40	35.02
3	240.00	260.00	5.97	8.52	10.40	35.02
4	0.00	400.00	76.76	60.37	97.66	51.82
5	120.00	400.00	19.30	14.32	24.03	53.43
6	240.00	400.00	19.30	14.33	24.04	53.41

CONTROL PARAMETERS

GUY LEVELS
HINGED BASE
WIND LOADING DIRECTION 'C'
TWO-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	91.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	89.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	92.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	96.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	99.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	102.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	102.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP		17.00	8.70	0.00	384.80	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
	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	9	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	19	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	8	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
1	2	0.15	0.24	0.00	0.00	0.00	0.00
1	6	0.15	0.24	0.00	0.00	0.00	0.00
6	10	0.15	0.24	0.00	0.00	0.00	0.00
6	14	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	1	0.15	0.20	0.00	0.00	0.00	0.00
7	3	0.15	0.20	0.00	0.00	0.00	0.00
7	3	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)
1	93.500	4.000	N	5.000	3.500	5.000	17	24.21	104.23	7.23	5.301
2	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.47	7.751
3	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.22	8.802
4	95.167	4.000	N	5.084	5.083	5.000	17	24.21	104.23	7.11	9.549
5	94.500	4.000	N	4.750	4.750	5.000	17	24.21	104.23	6.85	9.722
6	95.167	4.000	N	5.084	5.083	5.000	17	19.55	104.23	6.67	9.235

INPUT ECHO: GUY DATA AND RELATED INFORMATION

LVL	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	30.00	30.00	0.00	0.00	0.000	
1	2	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	150.00	150.00	0.00	0.00	0.000	
1	3	260.00	103.50	5.00	0.8130	0.6250	4700.	2.500	270.00	270.00	0.00	0.00	0.000	
2	1	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	30.00	30.00	0.00	0.00	0.000	
2	2	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	150.00	150.00	0.00	0.00	0.000	
2	3	260.00	198.50	5.00	0.8130	0.6250	4700.	2.500	270.00	270.00	0.00	0.00	0.000	
3	1	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	30.00	30.00	0.00	0.00	0.000	
3	2	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	150.00	150.00	0.00	0.00	0.000	
3	3	260.00	294.00	6.00	1.1550	0.7500	6720.	2.500	270.00	270.00	0.00	0.00	0.000	
4	1	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	30.00	30.00	0.00	0.00	0.000	
4	2	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	150.00	150.00	0.00	0.00	0.000	
4	3	400.00	393.50	4.00	0.8130	0.6250	4700.	2.500	270.00	270.00	0.00	0.00	0.000	
5	1	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	30.00	30.00	0.00	0.00	0.000	
5	2	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	150.00	150.00	0.00	0.00	0.000	
5	3	400.00	488.00	6.00	1.1550	0.7500	6720.	2.500	270.00	270.00	0.00	0.00	0.000	
6	1	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	30.00	30.00	0.00	0.00	0.000	
6	2	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	150.00	150.00	0.00	0.00	0.000	
6	3	400.00	583.00	6.00	1.1550	0.7500	6720.	2.500	270.00	270.00	0.00	0.00	0.000	
7	1	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	30.00	30.00	0.00	0.00	0.000	
7	2	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	150.00	150.00	0.00	0.00	0.000	
7	3	400.00	612.00	10.00	2.0730	1.0000	11940.	2.500	270.00	270.00	0.00	0.00	0.000	

OUTPUT: WIND LOADS

N	TOWER WIND LOAD (KIPS)	LEVEL	INSULATOR CLUSTERS WIND LOAD (KIPS)
1	5.30	1	0.00
2	7.75	2	0.00
3	8.80	3	0.00
4	9.55	4	0.00
5	9.72	5	0.00
6	9.24	6	0.00
7	2.39	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	11.10	8.91	5.12	4.19	4.01	10.36	-0.01	-0.143
1	2	0.6250	0.227	279.56	2.17	-1.74	0.95	0.87	0.70	1.96	0.04	-0.143
1	3	0.6250	0.227	279.56	6.19	-0.14	-5.71	2.39	2.16	5.71	-0.15	0.243
2	1	0.6250	0.266	326.78	13.61	9.33	5.37	8.33	8.18	10.93	0.00	-0.170
2	2	0.6250	0.266	326.78	1.12	-0.79	0.37	0.70	0.56	0.77	0.07	-0.198
2	3	0.6250	0.266	326.78	7.35	-0.18	-5.77	4.54	4.27	5.78	-0.20	0.345
3	1	0.7500	0.453	392.15	22.09	12.59	7.24	16.64	16.42	14.88	0.04	-0.249
3	2	0.7500	0.453	392.15	1.35	-0.85	0.34	0.99	0.77	0.64	0.13	-0.348
3	3	0.7500	0.453	392.15	11.93	-0.27	-7.80	9.03	8.57	7.80	-0.33	0.509
4	1	0.6250	0.456	560.75	17.46	10.69	6.15	12.35	12.18	12.76	0.04	-0.250
4	2	0.6250	0.456	560.75	1.39	-0.95	0.36	0.94	0.77	0.73	0.16	-0.431
4	3	0.6250	0.456	560.75	9.22	-0.37	-6.46	6.57	6.12	6.46	-0.42	0.761
5	1	0.7500	0.728	630.54	21.84	11.78	6.84	17.08	16.78	14.31	0.10	-0.445
5	2	0.7500	0.728	630.54	2.56	-1.59	0.63	1.91	1.60	1.17	0.25	-0.662
5	3	0.7500	0.728	630.54	12.32	-0.54	-7.63	9.66	9.93	7.63	-0.60	1.150
6	1	0.7500	0.816	706.52	15.22	9.07	5.36	16.07	15.75	11.44	0.16	-0.563
6	2	0.7500	0.816	706.52	3.78	-2.14	0.88	2.99	2.67	1.57	0.31	-0.818
6	3	0.7500	0.816	706.52	12.25	-0.65	-6.73	10.21	9.40	6.74	-0.71	1.451
7	1	1.0000	1.515	730.66	35.80	16.43	9.64	30.31	29.48	20.33	0.24	-0.855
7	2	1.0000	1.515	730.66	4.96	-2.70	1.07	4.03	3.20	1.82	0.44	-1.143
7	3	1.0000	1.515	730.66	19.36	-0.89	-10.24	16.41	14.89	10.25	-0.99	1.957

OUTPUT: TOWER BEHAVIOR AT GUY LEVELS

	DEFLECTION (FT)		TWIST	REACTIONS (KIPS)			REACTIONS (KIP-FT)			AXIAL FORCE	PHI
	WINDWARD	NORMAL	(DEG)	WINDWARD	NORMAL	VERT	WINDWARD	NORMAL	TWIST	(KIPS)	
1	0.382	0.019	-0.425	7.03	0.37	7.45	7.18	-0.36	-0.04	236.35	1.49570
2	0.865	-0.084	-0.449	8.35	-0.04	13.57	16.51	0.06	-0.02	221.29	1.47455
3	1.825	-0.385	-0.486	11.47	-0.22	26.66	33.89	0.52	-0.09	199.90	1.41190
4	3.015	-0.584	-0.570	9.37	0.05	19.87	24.70	-0.19	0.08	165.87	1.32172
5	3.039	-0.485	-0.610	9.45	-0.16	28.64	32.85	0.40	0.04	138.60	1.25232
6	3.056	-0.382	-0.627	6.29	-0.49	29.27	28.32	1.70	0.07	102.77	1.23139
7	3.613	-0.390	-0.620	12.83	0.47	50.74	56.90	-1.91	-0.04	68.76	1.01393

OUTPUT: BEHAVIOR AT TOWER EXTREMITIES

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