STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

March 12, 2002

Julie M. Donaldson, Esq.
Hurwitz & Sagarin LLC
147 North Broad Street
P.O. Box 112
Milford, CT 06460-0112

RE: **EM-MARCUS-004-020214** - Marcus Communications, LLC notice of intent to modify an existing telecommunications facility located at 376 Deercliff Road, Avon, Connecticut.

Dear Attorney Donaldson:

At a public meeting held on March 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that field radio frequency testing be conducted as requested by the Town of Avon after antenna installation.

The proposed modifications are to be implemented as specified here and in your notice dated February 14, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Philip K. Schenck, Jr., Town Manager, Town of Avon
Steven V. Kushner, Town Planner, Town of Avon
Jennifer Young Gaudet, Pinnacle Site Development
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Ronald C. Clark, Nextel Communications

TOWN OF AVON

60 West Main St. Avon, CT 06001-3743

POLICE, FIRE & MEDICAL EMERGENCY - 911

TOWN MANAGER'S OFFICE
Tel. (860) 409-4300
Fax (860) 409-4368

ACCOUNTING
Tel. (860) 409-4339
Fax (860) 409-4366

ASSESSOR'S OFFICE
Tel. (860) 409-4335
Fax (860) 409-4366

BUILDING DEPARTMENT
Tel. (860) 409-4316
Fax (860) 409-4364

COLLECTOR OF REVENUE
Tel. (860) 409-4306
Fax (860) 677-8428

ENGINEERING DEPARTMENT
Tel. (860) 409-4322
Fax (860) 409-4364

FINANCE DEPARTMENT
Tel. (860) 409-4339
Fax (860) 409-4366

FIRE MARSHAL
Tel. (860) 409-4319
Fax (860) 409-4364

LANDFILL
281 Huckleberry Hill Rd.
Tel. (860) 673-3677

PLANNING & ZONING
Tel. (860) 409-4328
Fax (860) 409-4364

POLICE DEPARTMENT
Tel. (860) 409-4200
Fax (860) 409-4206

PROBATE
Tel. (860) 409-4348
Fax (860) 409-4368

PUBLIC LIBRARY
281 Country Club Road
Tel. (860) 673-9712
Fax (860) 675-6364

PUBLIC WORKS
11 Arch Road
Tel. (860) 673-6151
Fax (860) 673-0338

RECREATION AND PARKS
Tel. (860) 409-4332
Fax (860) 409-4366
Cancellation (860) 409-4365

REGISTRAR OF VOTERS
Tel. (860) 409-4350
Fax (860) 409-4368

SOCIAL SERVICES
Tel. (860) 409-4346
Fax (860) 409-4366

TOWN CLERK
Tel. (860) 409-4310
Fax (860) 677-8428

TDD HEARING IMPAIRED
Tel. (860) 409-4361

February 25, 2002

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Dear Mr. Phelps:

I am writing to you regarding an application you have received from Marcus Communications, LLC, Docket No. EM-MARCUS-004-020214, for modifications to an existing telecommunications facility located at 376 Deercliff Road in Avon.

I would like to make you aware that the Planning and Zoning Commission recently conducted a review of the same request and approved the application subject to verification of compliance with standards cited in Avon's Zoning Regulations concerning electromagnetic fields. I am enclosing a copy of the Commission's approval letter for your records.

If there is any additional information I can assist you with, please let me know.

Sincerely,

Steven Kushner
Town Planner

cc: Planning and Zoning Commission
Town Manager

PINNACLE
Towers Inc

LETTER OF AUTHORIZATION

Municipality: Avon
Tax Assessor's Parcel Number: 314-774-015-000026
Re.: Building Permits and Land Use Approvals

Pinnacle Towers Inc., the Landlord/Owner of Pinnacle Site No. 0236-001 Avon CT (the "Property") does hereby appoint The Marcus Group ("Marcus") and its agents and representatives as Landlord/Owner's Agent for the purpose of completing, executing, and/or filing any application, form, map, approval, variance, special permit, Siting Council application, or other local, state, or federal land use approval or building permit ("Approvals") required to provide Marcus with lawful access to, and the ability to use the Property for the purpose of installing, erecting, or otherwise placing antennae, support structures and related equipment on the Property. Owner shall fully cooperate with Marcus and its agents and representatives in obtaining any required Approvals. Marcus shall be responsible for all costs, filing fees, or any expense incurred in connection with securing any Approvals.

Landlord/Owner: Pinnacle Towers Inc.

By: _____

Name: Stephen M. Jastermsky

Its: Northeast Business Development Coordinator

Date: November 21, 2001

STATE OF FLORIDA
COUNTY OF Sarasota

Signed and Sworn to before me this 20th the day of November, 2001

_____
Notary Public

My Commission expires:

JASON RICHARDS
MY COMMISSION # DD 054424
EXPIRES: September 9, 2005
Bonded Thru Notary Public Underwriters

301 North Cattlemen Road Sarasota, Florida 34232
888.748.3482 : 941.364.8886 : fax 941.364.8761 : pinnacletowers.com

HURWITZ & SAGARIN LLC

February 14, 2002

Mr. Mortimer A. Gelston
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification
Pinnacle Telecommunications Facility
376 Deercliff Road, Avon, Connecticut

Dear Mr. Gelston:

On behalf of Marcus Communications, LLC ("Marcus"), I am pleased to submit this exempt modification letter of notification. Enclosed are an original plus twenty-five (25) copies of a petition requesting acknowledgement that the co-location of Marcus' equipment on the telecommunications facility located at 376 Deercliff Road, Avon, Connecticut, satisfies the requirements set forth in R.C.S.A. §16-50j-72(b)(2). A check in the amount of $500.00 to cover the filing fee for this request for acknowledgement is also enclosed.

The Town Manager of Avon has been sent notice of this filing by certified mail.

Sincerely,

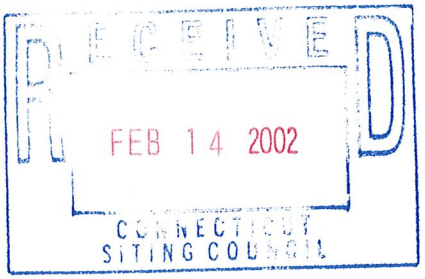
JULIE M. DONALDSON
rr/enc.

cc: Philip K. Schenck, Town Manager
Stephen Howard, The Marcus Group

LAW OFFICES
147 North Broad Street, P.O. Box 112, Milford, Connecticut 06460-0112 Tel. 203-877-8000 • Fax 203-878-9800

HURWITZ & SAGARIN LLC

February 14, 2002



Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification
Marcus Communications, LLC
376 Deercliff Road
Avon, Connecticut

Dear Mr. Phelps:

Marcus Communications, LLC ("Marcus") hereby requests acknowledgement that its proposed co-location on the communications tower located at 376 Deercliff Road, Avon, Connecticut, ("Avon Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). Marcus submits this request for acknowledgment as agents for the tower owner, Pinnacle Towers, Inc. A copy of the letter of authorization is attached hereto as Exhibit A. Under this request for acknowledgment, Pinnacle Towers, Inc., intends to allow Marcus to install antennas and related equipment at this existing telecommunications facility in Avon.

Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to an existing telecommunications tower, which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Town Manager of Avon, Philip K. Schenck, Jr.

The existing facility consists of a 560-foot guyed lattice tower and related equipment located at 376 Deercliff Road, Avon, Connecticut. The Avon Facility currently supports a number of antenna arrays operated by, among others, Voicestream Wireless ("Voicestream"), Nextel Communications of the Mid Atlantic, Inc. ("Nextel") and local television and radio stations. The Siting Council last reviewed the Avon Facility on June 7, 2000, when it approved Voicestream's application to co-locate on the subject tower. (See TS-Voicestream-004-000530.)

A structural analysis dated November 6, 2001, evidencing the structural capability of the Pinnacle tower to accommodate the proposed Marcus antennas is attached hereto as Exhibit B. Marcus plans to install four (4), 2-foot microwave dish antennas on the Avon Facility. One antenna will be located at a height of 280 feet on the tower; one antenna will be located at a height of 137 feet on the tower; one antenna will be located at 134 feet on the tower; and the

LAW OFFICES
147 North Broad Street, P.O. Box 112, Milford, Connecticut 06460-0112 Tel. 203-877-8000 • Fax 203-878-9800

fourth antenna will be located at a height of 131 feet on the tower. Marcus' associated radio equipment consists of equipment racks in a 4-foot by 6.6-foot leased area within the existing building at the base of the existing tower. Marcus has also received approval from the Town of Avon for this co-location. See Special Exception dated February 5, 2002, attached hereto as Exhibit C.

For the following reasons, the proposed modifications to the Avon Facility fall squarely within and satisfy the requirements set forth in R.C.S.A. § 16-50j-72(b)(2):

1. The proposed modifications will not increase the height of the tower. The Marcus dish antennas will be installed at heights of approximately 280, 137, 134 and 131 feet above ground level (AGL), respectively. The enclosed site plan confirms that the proposed Marcus installation will not increase the overall height of the tower.

2. The installation of Marcus' equipment within an existing building near the base of the tower will not require an extension of the site boundaries as evidenced by the enclosed site plan. The proposed equipment location, fencing, access, and utility routing for Marcus will be located entirely within the existing site.

3. Because no additional HVAC equipment is required, the proposed modifications will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculations for a point at the tower base would be .0044% for the Marcus antennas. Based upon the existing information contained in Voicestream's June 7, 2000 tower sharing application, the calculated "worst-case" power density for the combined operations at the site is 75.183387% of the standard for general population/uncontrolled exposure.

For the foregoing reasons, Marcus respectfully submits that the proposed addition of its antennas and equipment at the Avon Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Very truly yours,

Julie M. Donaldson

Julie M. Donaldson

cc: Philip K. Schenck, Town Manager
Stephen M. Howard, Marcus Communications, LLC

PINNACLE
Towers Inc

LETTER OF AUTHORIZATION

Municipality: Avon
Tax Assessor's Parcel Number: 314-774-015-000026
Re.: Building Permits and Land Use Approvals

Pinnacle Towers Inc., the Landlord/Owner of Pinnacle Site No. 0236-001 Avon CT (the "Property") does hereby appoint The Marcus Group ("Marcus") and its agents and representatives as Landlord/Owner's Agent for the purpose of completing, executing, and/or filing any application, form, map, approval, variance, special permit, Siting Council application, or other local, state, or federal land use approval or building permit ("Approvals") required to provide Marcus with lawful access to, and the ability to use the Property for the purpose of installing, erecting, or otherwise placing antennae, support structures and related equipment on the Property. Owner shall fully cooperate with Marcus and its agents and representatives in obtaining any required Approvals. Marcus shall be responsible for all costs, filing fees, or any expense incurred in connection with securing any Approvals.

Landlord/Owner: Pinnacle Towers Inc.

By: _____

Name: Stephen M. Jastermsky

Its: Northeast Business Development Coordinator

Date: November 21, 2001

STATE OF FLORIDA
COUNTY OF Sarasota

Signed and Sworn to before me this 20th the day of November, 2001

_____
Notary Public

My Commission expires:

JASON RICHARDS
MY COMMISSION # DD 054424
EXPIRES: September 9, 2005
Bonded Thru Notary Public Underwriters

301 North Cattlemen Road Sarasota, Florida 34232
888.748.3482 : 941.364.8886 : fax 941.364.8761 : pinnacletowers.com

Structural Analysis Report

Existing 560' Model "G8" Guyed Tower

Manufactured by Stainless, Inc.

Located at Avon, CT

For

Marcus Communications

(0236-001)

Prepared by:

Pinnacle Towers Inc.
Michael T. De Boer, P.E.
Senior Engineer

November 6, 2001

Structural Analysis Report

Existing 560' Model "G8" Guyed Tower

For

Marcus Communications

Table of Contents

Pinnacle Towers Inc.
0236-001
November 6, 2001

INTRODUCTION

The purpose of this analysis is to determine that the existing tower design is in conformance to the ANSI/TIA/EIA-222-F 1996 standard requirements for the existing and proposed antenna loading. The existing tower is a 560' Model "G8" guyed tower located at Avon, CT and originally manufactured by Stainless, Inc., North Wales, PA. The analysis is being done for Marcus Communications.

The guyed tower program used in the analysis is Guymast. This program was written by Weisman Consultants, Inc. and is one of the most widely accepted programs in the communications industry. The wind loading used in the analysis was 80 mph and ½" solid radial ice. The tower, for the purpose of this analysis, is assumed to be in good condition with no defects. The tower members and existing antennas used in the analysis were taken from a field audit done on April 8, 1999. The tower legs and bracing were assumed to be A36 steel or better.

ANTENNA LOADING INFORMATION

EXISTING ANTENNA LOADING

One homemade antenna at 90' with a 3/8" tx line.
One Radiowaves 2' dish antenna at 131' with (1) ½" tx line.
One Radiowaves 2' dish antenna at 134' with (1) ½" tx line.
One Radiowaves 2' dish antenna at 137' with (1) ½" tx line.
One 7.5 Db omni antenna at 150' with (1) 7/8" tx line.
One Scala FMO omni antenna at 200' with (1) ¼" tx line.
One yagi antenna at 221' with a ½" tx line.
Two EMS FR-90-16-02-DP antennas at 236' with (4) 1 5/8" tx lines.
One DB809 antenna at 248' with a 1 ¼" tx line.
Nine Allgon 7120.16 antennas at 260' with (9) 1 5/8" tx lines.
One Antel omni antenna at 270' with a 1 ¼" tx line.

ANTENNA LOADING INFORMATION cont.

EXISTING ANTENNAS cont.

One Andrew PG1NOF-0090 antenna at 289' with a 1 ¼" tx line.
Two Andrew omni antenna at 325' with a 1 ¼" tx line.
One Sinclair omni antenna at 388' with (1) 1 ¼" tx line.
One Sinclair omni antenna at 440' with (1) 1 ¼" tx line.
One homemade antenna at 500' with a 3/8" tx line.
One Andrew omni antenna at 501' with a 1 5/8" tx line.
One Celwave omni antenna at 513' with a 1 ¼" tx line.
One Decibel omni antenna at 513' with a 1 5/8" tx line.
One Harris Channel 18 antenna at top of tower.

PROPOSED ANTENNAS

One Radiowaves 2' dish antenna at 280' with (1) ½" tx line.

NOTE: For the purposes of this report, the transmission lines were distributed as per the field audit.

RESULTS

The existing 560' Model "G8" guyed tower located at Avon, CT was analyzed with a 80 mph wind load and ½" solid radial ice per the EIA-222-F 1996 standard. The tower was found to be structurally acceptable with the above tower loading.

The existing tower foundation was also reviewed and the tower base was found to be structurally acceptable. The anchors were found to be overloaded. The anchors are shallow and could possibly be anchored in to the existing rock. If this can not be determined, new anchors should be installed to reduce the load on the existing anchors.

The allowable stresses were increased by 1/3 for wind loading conditions.

RECOMMENDATIONS

The existing 560' Model "G8" guyed tower at Avon, CT requires no structural modifications at this time to meet the EIA-222-F, 1996 standard with the above antenna loading and wind loading. The following should be done to assure the structural integrity of the tower:

Any transmission lines and antennas not in use should be removed from the tower.

The anchors should be checked to see if they are anchored to the bedrock. If this can not be determined, new inner anchors should be installed.

It is recommended that if any other antennas are proposed, another analysis be done to assure the structural adequacy of the tower.

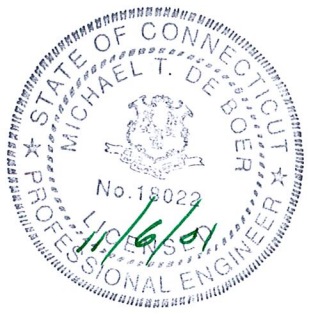
CONCLUSION

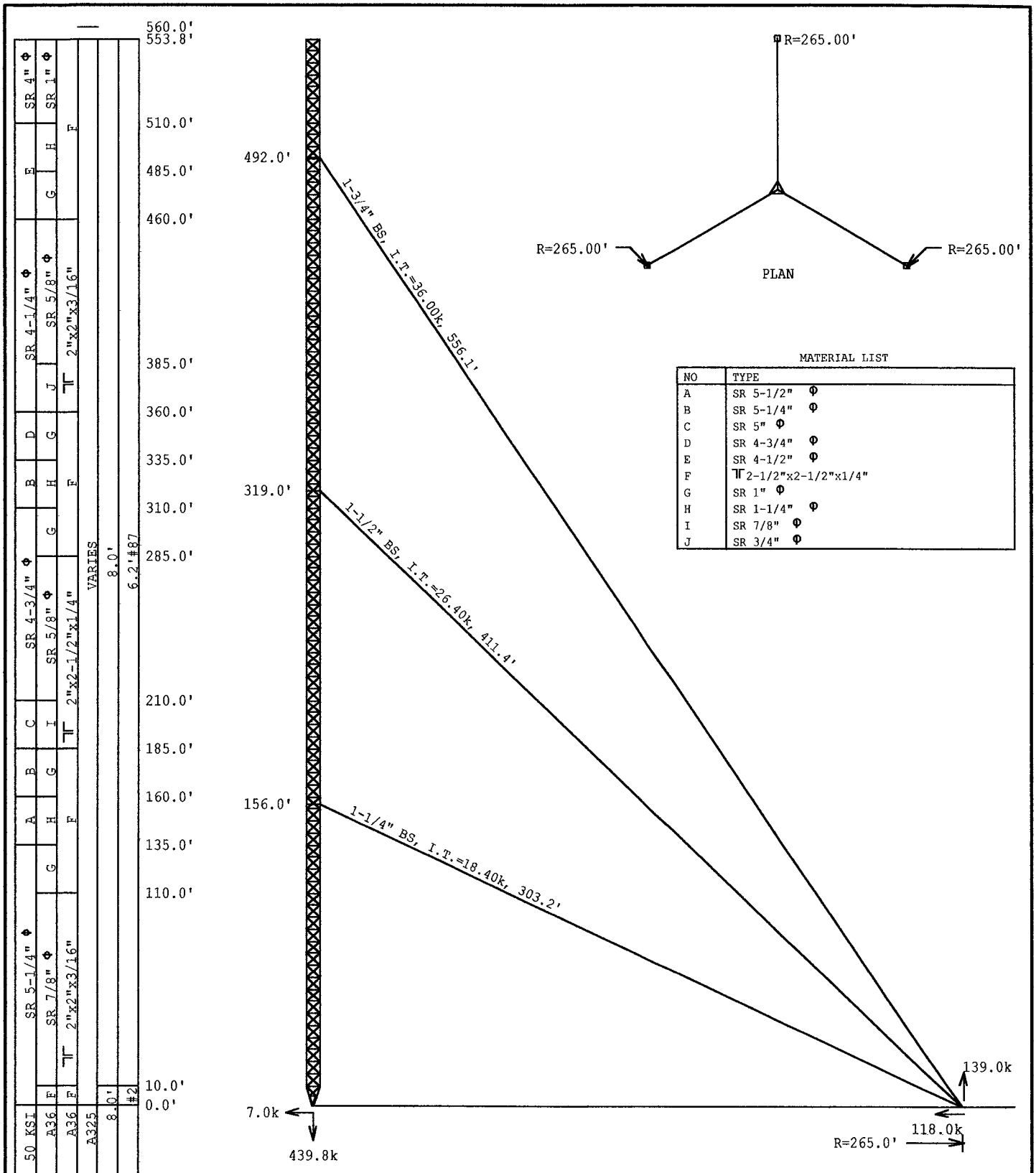
The existing 560' Model "G8" guyed tower located at Avon, CT is structurally acceptable based upon the EIA-222-F-1996 standard with a 80 mph wind and ½" solid radial ice. No structural modifications are required at this time to the tower mast, the foundation may require some modification.

I hope this analysis satisfies your current needs. If any further questions arise, please feel free to call.

Sincerely,
PINNACLE TOWERS INC.

Michael T. De Boer, P.E.
Senior Engineer





Elevation on azimuth 240.00 deg

Pinnacle Towers Inc.

1549 Ringling Blud. Third Floor, Sarasota, Florida 34236

Phone: (941) 364-8886 Fax: (941) 364-8761

Client: MARCUS COMMUNICATIONS Job No: CT0236-001 Date: 5 nov 2001

Location: AVON, CT Tower Height: 553.75'

Standard: EIA-222-F, 1996 Design Wind & Ice: 80 MPH, 1/2" ICE

Project: c:\aa\ct0236~1.lod

EXISTING 555' G8 STAINLESS GUYED TOWER AVON, CT

MAST DATA

UPPER ELEV FT	MAST TYPE OF WEB	NO OF LEGS *	GEOM FACE WIDTH FT *	GEOM PANEL HEIGHT FT *	X-SECTION-AREA ONE LEG IN.SQ.	X-SECTION-AREA ONE DIAG IN.SQ. *	BARE WEIGHT K/FT.	ELASTIC MODULUS KIP/IN.SQ	TEMP COEFF /DEG
553.8	3	3	8.000	6.250	12.570	0.790	0.193	29000.0	0.0000116
510.0	3	3	8.000	6.250	15.900	1.230	0.245	29000.0	0.0000116
485.0	3	3	8.000	6.250	15.900	0.790	0.230	29000.0	0.0000116
460.0	3	3	8.000	6.250	14.190	0.310	0.187	29000.0	0.0000116
385.0	3	3	8.000	6.250	14.190	0.440	0.193	29000.0	0.0000116
360.0	3	3	8.000	6.250	17.720	0.790	0.254	29000.0	0.0000116
335.0	3	3	8.000	6.250	21.650	1.230	0.309	29000.0	0.0000116
310.0	3	3	8.000	6.250	17.720	0.790	0.254	29000.0	0.0000116
285.0	3	3	8.000	6.250	17.720	0.310	0.247	29000.0	0.0000116
210.0	3	3	8.000	6.250	19.630	0.600	0.285	29000.0	0.0000116
185.0	3	3	8.000	6.250	21.650	0.790	0.315	29000.0	0.0000116
160.0	3	3	8.000	6.250	23.760	1.230	0.352	29000.0	0.0000116
135.0	3	3	8.000	6.250	21.650	0.790	0.316	29000.0	0.0000116
110.0	3	3	8.000	6.250	21.650	0.600	0.298	29000.0	0.0000116
10.0	3	3	5.701	5.000	21.650	2.370	0.386	29000.0	0.0000116

* If NO OF LEGS is 1 : that part of the mast is assumed to be Cylindrical
and : FACE WIDTH = outside diameter
PANEL HEIGHT = thickness
AREA OF DIAG = Poisson ratio

GUY GEOMETRY

ELEV FT	GUY AZI DEG	DIAMETER IN.	HEIGHT FT.	RADIUS FT.	MAST ATTACH RADIUS FT.	ATTACH AZI DEG	INITIAL TENSION KIP
492.0	240.0	1.750	492.0	265.0	4.750	240.0	36.000
492.0	120.0	1.750	492.0	265.0	4.750	120.0	36.000
492.0	0.0	1.750	492.0	265.0	4.750	0.0	36.000
319.0	240.0	1.500	319.0	265.0	4.750	240.0	26.400
319.0	120.0	1.500	319.0	265.0	4.750	120.0	26.400
319.0	0.0	1.500	319.0	265.0	4.750	0.0	26.400
156.0	240.0	1.250	156.0	265.0	4.750	240.0	18.400
156.0	120.0	1.250	156.0	265.0	4.750	120.0	18.400
156.0	0.0	1.250	156.0	265.0	4.750	0.0	18.400

GUY MATERIAL PROPERTIES
==========

ELEV FT	GUY AZI DEG	BREAKING STRENGTH KIP	GUY WEIGHT LBS/FT	GUY AREA IN.SQ	ELASTIC MODULUS KIP/IN.SQ	THERMAL COEFF /DEG	UNSTRESS LENGTH FT
492.0	240.0	376.000	6.430	1.840	22900.0	0.0000120	556.120
492.0	120.0	376.000	6.430	1.840	22900.0	0.0000120	556.120
492.0	0.0	376.000	6.430	1.840	22900.0	0.0000120	556.120
319.0	240.0	276.000	4.730	1.350	23500.0	0.0000120	411.366
319.0	120.0	276.000	4.730	1.350	23500.0	0.0000120	411.366
319.0	0.0	276.000	4.730	1.350	23500.0	0.0000120	411.366
156.0	240.0	192.000	3.280	0.938	23500.0	0.0000120	303.191
156.0	120.0	192.000	3.280	0.938	23500.0	0.0000120	303.191
156.0	0.0	192.000	3.280	0.938	23500.0	0.0000120	303.191

==========

LOADING CONDITION A ==========

Bare tower 80 mph wind at azimuth 0 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-1.057	0.000	1.610	0.80	0.00	0.00	0.0	0.00
C	570.0	-1.044	0.000	1.610	0.80	0.00	0.00	0.0	0.00
C	513.0	-0.514	0.000	0.138	0.42	0.06	-0.54	0.0	0.00
C	501.0	-0.156	0.000	0.064	-0.57	0.33	-0.80	0.0	0.00
C	500.0	-0.045	0.000	0.007	0.03	0.00	0.00	0.0	0.00
C	440.0	-0.150	0.000	0.064	-0.57	0.33	-0.77	0.0	0.00
C	429.0	-0.280	0.000	0.101	0.55	0.55	-1.55	0.0	0.00
C	420.0	-0.157	0.000	0.073	0.50	0.04	-0.18	0.0	0.00
C	400.0	0.000	0.000	0.007	0.04	0.00	0.00	0.0	0.00

C	388.0	-0.174	0.000	0.076	-0.69	0.40	-0.90	0.0	0.00
C	370.0	-0.151	0.000	0.073	0.50	0.04	-0.18	0.0	0.00
C	325.0	-0.272	0.000	0.119	0.81	-0.47	0.88	0.0	0.00
C	289.0	-0.106	0.000	0.060	0.53	0.00	0.00	0.0	0.00
C	280.0	-0.088	0.000	0.033	0.20	0.00	0.00	0.0	0.00
C	280.0	-0.140	0.000	0.073	0.50	0.04	-0.16	0.0	0.00
C	270.0	-0.171	0.000	0.068	0.30	-0.52	1.37	0.0	0.00
C	260.0	-1.566	0.000	0.338	0.51	0.88	-3.50	0.0	0.00
C	250.0	-0.553	0.000	0.152	0.99	0.00	0.00	0.0	0.00
C	248.0	-0.101	0.000	0.066	0.73	0.00	0.00	0.0	0.00
C	221.0	-0.075	0.000	0.014	-0.08	-0.05	0.26	0.0	0.00
C	200.0	-0.201	0.000	0.092	-0.38	0.66	-1.48	0.0	0.00
C	175.0	-0.116	0.000	0.064	-0.58	-0.34	0.61	0.0	0.00
C	150.0	-0.127	0.000	0.059	-0.24	0.42	-0.93	0.0	0.00
C	137.0	-0.048	-0.009	0.028	-0.08	-0.15	0.25	240.0	0.00
C	134.0	-0.048	0.009	0.028	-0.08	0.15	-0.24	120.0	0.00
C	131.0	-0.117	0.000	0.028	0.17	0.00	0.00	0.0	0.00
C	90.0	-0.027	0.000	0.007	0.03	0.00	0.00	0.0	0.00
D	553.8	-0.100	0.000	0.192	0.01	0.00	0.00		
D	547.5	-0.100	0.000	0.192	0.01	0.00	0.00		
D	547.5	-0.103	0.000	0.193	0.01	0.00	0.00		
D	516.3	-0.101	0.000	0.193	0.01	0.00	0.00		
D	516.3	-0.105	0.000	0.194	0.00	0.00	-0.01		
D	510.0	-0.105	0.000	0.194	0.00	0.00	-0.01		
D	510.0	-0.115	0.000	0.244	0.00	0.00	-0.03		
D	503.8	-0.115	0.000	0.244	0.00	0.00	-0.03		
D	503.8	-0.120	0.000	0.244	0.00	0.01	-0.04		
D	497.5	-0.120	0.000	0.244	0.00	0.01	-0.04		
D	497.5	-0.124	0.000	0.245	0.00	0.01	-0.05		
D	485.0	-0.123	0.000	0.245	0.00	0.01	-0.05		
D	485.0	-0.120	0.000	0.230	0.00	0.01	-0.05		
D	460.0	-0.118	0.000	0.230	0.00	0.01	-0.05		
D	460.0	-0.108	0.000	0.184	0.00	0.01	-0.05		
D	441.3	-0.107	0.000	0.184	0.00	0.01	-0.05		
D	441.3	-0.113	0.000	0.187	-0.01	0.01	-0.05		
D	435.0	-0.113	0.000	0.187	-0.01	0.01	-0.05		
D	435.0	-0.114	0.000	0.188	-0.01	0.01	-0.05		
D	422.5	-0.113	0.000	0.188	-0.01	0.01	-0.05		
D	422.5	-0.116	0.000	0.188	-0.01	0.01	-0.05		
D	416.3	-0.116	0.000	0.188	-0.01	0.01	-0.05		
D	416.3	-0.118	0.000	0.188	-0.01	0.01	-0.05		
D	385.0	-0.116	0.000	0.188	-0.01	0.01	-0.05		
D	385.0	-0.117	0.000	0.193	-0.01	0.01	-0.05		
D	372.5	-0.116	0.000	0.193	-0.01	0.01	-0.05		
D	372.5	-0.119	0.000	0.193	-0.01	0.01	-0.05		
D	366.3	-0.119	0.000	0.193	-0.01	0.01	-0.05		
D	366.3	-0.120	0.000	0.194	-0.01	0.01	-0.06		
D	360.0	-0.120	0.000	0.194	-0.01	0.01	-0.06		
D	360.0	-0.130	0.000	0.254	-0.01	0.01	-0.06		
D	335.0	-0.128	0.000	0.254	-0.01	0.01	-0.06		
D	335.0	-0.133	0.000	0.309	-0.01	0.01	-0.06		
D	322.5	-0.134	0.000	0.309	-0.01	0.01	-0.06		
D	322.5	-0.136	0.000	0.309	-0.01	0.01	-0.06		
D	310.0	-0.135	0.000	0.309	-0.01	0.01	-0.06		
D	310.0	-0.128	0.000	0.254	-0.01	0.01	-0.06		
D	285.0	-0.126	0.000	0.254	-0.01	0.01	-0.05		
D	285.0	-0.117	0.000	0.234	-0.01	0.01	-0.05		
D	278.8	-0.117	0.000	0.234	-0.01	0.01	-0.05		
D	278.8	-0.113	0.000	0.235	-0.01	0.01	-0.04		

D	272.5	-0.113	0.000	0.235	-0.01	0.01	-0.04
D	272.5	-0.114	0.000	0.235	-0.01	0.01	-0.04
D	266.3	-0.114	0.000	0.235	-0.01	0.01	-0.04
D	266.3	-0.114	0.000	0.235	-0.01	0.01	-0.04
D	260.0	-0.114	0.000	0.235	-0.01	0.01	-0.04
D	260.0	-0.132	0.000	0.247	-0.01	0.01	-0.04
D	247.5	-0.136	0.000	0.250	-0.01	0.01	-0.04
D	247.5	-0.145	0.000	0.255	-0.01	0.01	-0.06
D	222.5	-0.142	0.000	0.255	-0.01	0.01	-0.06
D	222.5	-0.142	0.000	0.255	-0.01	0.01	-0.06
D	210.0	-0.141	0.000	0.255	-0.01	0.01	-0.06
D	210.0	-0.143	0.000	0.285	-0.01	0.01	-0.06
D	185.0	-0.140	0.000	0.285	-0.01	0.01	-0.06
D	185.0	-0.143	0.000	0.315	-0.01	0.01	-0.06
D	160.0	-0.139	0.000	0.315	-0.01	0.01	-0.06
D	160.0	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	153.8	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	153.8	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	147.5	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	147.5	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	141.3	-0.140	0.000	0.352	-0.01	0.01	-0.06
D	141.3	-0.139	0.000	0.352	-0.01	0.01	-0.06
D	135.0	-0.139	0.000	0.352	-0.01	0.01	-0.06
D	135.0	-0.138	0.000	0.316	-0.01	0.01	-0.05
D	110.0	-0.132	0.000	0.316	-0.01	0.01	-0.05
D	110.0	-0.127	0.000	0.297	-0.01	0.01	-0.05
D	91.3	-0.123	0.000	0.297	-0.01	0.01	-0.05
D	91.3	-0.123	0.000	0.298	-0.01	0.01	-0.05
D	53.8	-0.109	0.000	0.298	-0.01	0.01	-0.04
D	53.8	-0.105	0.000	0.298	-0.01	0.01	-0.04
D	47.5	-0.105	0.000	0.298	-0.01	0.01	-0.04
D	47.5	-0.101	0.000	0.298	-0.01	0.01	-0.04
D	41.3	-0.101	0.000	0.298	-0.01	0.01	-0.04
D	41.3	-0.097	0.000	0.298	-0.01	0.01	-0.04
D	35.0	-0.097	0.000	0.298	-0.01	0.01	-0.04
D	35.0	-0.093	0.000	0.298	-0.01	0.01	-0.03
D	10.0	-0.093	0.000	0.298	-0.01	0.01	-0.03
D	10.0	-0.104	0.000	0.405	-0.01	0.01	-0.03
D	5.0	-0.104	0.000	0.405	-0.01	0.01	-0.03
D	5.0	-0.098	0.000	0.367	-0.01	0.01	-0.03
D	0.0	-0.098	0.000	0.367	-0.01	0.01	-0.03

GUY LOADING
==========

.. WIND LOADING ...			TEMP	.ICE LOAD..		CONV	PROFILES.		.LOAD FACTORS.		
AZI	SPEED	REF PRESS	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
0.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION B ==========

Bare tower 80 mph wind at azimuth 60 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS (FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-0.529	-0.916	1.610	0.80	0.00	0.46	0.0	0.00
C	570.0	-0.522	-0.905	1.610	0.80	0.00	0.45	0.0	0.00
C	513.0	-0.151	-0.262	0.138	0.42	0.06	0.63	0.0	0.00
C	501.0	-0.126	-0.219	0.064	-0.57	0.33	-2.83	0.0	0.00
C	500.0	-0.023	-0.039	0.007	0.03	0.00	0.19	0.0	0.00
C	440.0	-0.122	-0.211	0.064	-0.57	0.33	-2.73	0.0	0.00
C	429.0	-0.104	-0.180	0.101	0.55	0.55	0.40	0.0	0.00
C	420.0	-0.097	-0.167	0.073	0.50	0.04	1.25	0.0	0.00
C	400.0	-0.018	-0.031	0.007	0.04	0.00	0.17	0.0	0.00
C	388.0	-0.132	-0.228	0.076	-0.69	0.40	-2.97	0.0	0.00
C	370.0	-0.093	-0.161	0.073	0.50	0.04	1.20	0.0	0.00
C	325.0	-0.163	-0.282	0.119	0.81	-0.47	2.60	0.0	0.00
C	289.0	-0.079	-0.136	0.060	0.53	0.00	1.26	0.0	0.00
C	280.0	-0.044	-0.050	0.033	0.20	0.00	0.30	0.0	0.00
C	280.0	-0.086	-0.149	0.073	0.50	0.04	1.11	0.0	0.00
C	270.0	-0.086	-0.148	0.068	0.30	-0.52	1.37	0.0	0.00
C	260.0	-0.647	-1.121	0.338	0.51	0.88	0.94	0.0	0.00
C	250.0	-0.155	-0.269	0.152	0.99	0.00	1.50	0.0	0.00
C	248.0	-0.097	-0.168	0.066	0.73	0.00	2.00	0.0	0.00
C	221.0	-0.038	-0.065	0.014	-0.08	-0.05	-0.26	0.0	0.00
C	200.0	-0.101	-0.174	0.092	-0.38	0.66	-1.48	0.0	0.00
C	175.0	-0.058	-0.101	0.064	-0.58	-0.34	-0.61	0.0	0.00
C	150.0	-0.064	-0.110	0.059	-0.24	0.42	-0.93	0.0	0.00
C	137.0	-0.039	-0.067	0.028	-0.08	-0.15	0.00	240.0	0.00
C	134.0	0.045	-0.122	0.028	-0.08	0.15	-0.12	120.0	0.00
C	131.0	-0.127	-0.022	0.028	0.17	0.00	0.12	0.0	0.00
C	90.0	-0.014	-0.024	0.007	0.03	0.00	0.12	0.0	0.00
D	553.8	-0.053	-0.092	0.192	0.01	0.00	0.02		
D	547.5	-0.053	-0.092	0.192	0.01	0.00	0.02		
D	547.5	-0.055	-0.094	0.193	0.01	0.00	0.02		
D	516.3	-0.054	-0.093	0.193	0.01	0.00	0.02		
D	516.3	-0.055	-0.096	0.194	0.00	0.00	0.01		

D	510.0	-0.055	-0.096	0.194	0.00	0.00	0.01
D	510.0	-0.061	-0.105	0.244	0.00	0.00	-0.01
D	503.8	-0.061	-0.105	0.244	0.00	0.00	-0.01
D	503.8	-0.063	-0.109	0.244	0.00	0.01	-0.02
D	497.5	-0.063	-0.109	0.244	0.00	0.01	-0.02
D	497.5	-0.065	-0.112	0.245	0.00	0.01	-0.04
D	485.0	-0.065	-0.112	0.245	0.00	0.01	-0.04
D	485.0	-0.063	-0.109	0.230	0.00	0.01	-0.04
D	460.0	-0.062	-0.108	0.230	0.00	0.01	-0.04
D	460.0	-0.056	-0.097	0.184	0.00	0.01	-0.03
D	441.3	-0.056	-0.097	0.184	0.00	0.01	-0.03
D	441.3	-0.059	-0.102	0.187	-0.01	0.01	-0.05
D	435.0	-0.059	-0.102	0.187	-0.01	0.01	-0.05
D	435.0	-0.059	-0.103	0.188	-0.01	0.01	-0.05
D	422.5	-0.059	-0.102	0.188	-0.01	0.01	-0.05
D	422.5	-0.060	-0.105	0.188	-0.01	0.01	-0.06
D	416.3	-0.060	-0.105	0.188	-0.01	0.01	-0.06
D	416.3	-0.061	-0.106	0.188	-0.01	0.01	-0.06
D	385.0	-0.060	-0.104	0.188	-0.01	0.01	-0.06
D	385.0	-0.061	-0.105	0.193	-0.01	0.01	-0.06
D	372.5	-0.060	-0.105	0.193	-0.01	0.01	-0.06
D	372.5	-0.062	-0.107	0.193	-0.01	0.01	-0.06
D	366.3	-0.062	-0.107	0.193	-0.01	0.01	-0.06
D	366.3	-0.063	-0.108	0.194	-0.01	0.01	-0.06
D	360.0	-0.063	-0.108	0.194	-0.01	0.01	-0.06
D	360.0	-0.068	-0.117	0.254	-0.01	0.01	-0.06
D	335.0	-0.067	-0.115	0.254	-0.01	0.01	-0.06
D	335.0	-0.069	-0.120	0.309	-0.01	0.01	-0.06
D	328.8	-0.069	-0.120	0.309	-0.01	0.01	-0.06
D	328.8	-0.070	-0.121	0.309	-0.01	0.01	-0.06
D	322.5	-0.070	-0.121	0.309	-0.01	0.01	-0.06
D	322.5	-0.071	-0.122	0.309	-0.01	0.01	-0.07
D	310.0	-0.070	-0.121	0.309	-0.01	0.01	-0.07
D	310.0	-0.067	-0.116	0.254	-0.01	0.01	-0.07
D	285.0	-0.066	-0.114	0.254	-0.01	0.01	-0.07
D	285.0	-0.061	-0.105	0.234	-0.01	0.01	-0.06
D	278.8	-0.061	-0.105	0.234	-0.01	0.01	-0.06
D	278.8	-0.058	-0.101	0.235	-0.01	0.01	-0.05
D	272.5	-0.058	-0.101	0.235	-0.01	0.01	-0.05
D	272.5	-0.059	-0.102	0.235	-0.01	0.01	-0.06
D	266.3	-0.059	-0.102	0.235	-0.01	0.01	-0.06
D	266.3	-0.059	-0.103	0.235	-0.01	0.01	-0.06
D	260.0	-0.059	-0.103	0.235	-0.01	0.01	-0.06
D	260.0	-0.068	-0.118	0.247	-0.01	0.01	-0.06
D	247.5	-0.070	-0.121	0.250	-0.01	0.01	-0.06
D	247.5	-0.074	-0.129	0.255	-0.01	0.01	-0.07
D	222.5	-0.073	-0.126	0.255	-0.01	0.01	-0.07
D	222.5	-0.073	-0.126	0.255	-0.01	0.01	-0.07
D	210.0	-0.072	-0.125	0.255	-0.01	0.01	-0.08
D	210.0	-0.073	-0.127	0.285	-0.01	0.01	-0.08
D	191.3	-0.072	-0.125	0.285	-0.01	0.01	-0.08
D	191.3	-0.072	-0.124	0.285	-0.01	0.01	-0.07
D	185.0	-0.072	-0.124	0.285	-0.01	0.01	-0.07
D	185.0	-0.073	-0.127	0.315	-0.01	0.01	-0.07
D	160.0	-0.071	-0.123	0.315	-0.01	0.01	-0.07
D	160.0	-0.072	-0.124	0.352	-0.01	0.01	-0.07
D	153.8	-0.072	-0.124	0.352	-0.01	0.01	-0.07
D	153.8	-0.072	-0.124	0.352	-0.01	0.01	-0.07
D	147.5	-0.072	-0.124	0.352	-0.01	0.01	-0.07
D	147.5	-0.072	-0.124	0.352	-0.01	0.01	-0.07

D	141.3	-0.072	-0.124	0.352	-0.01	0.01	-0.07
D	141.3	-0.071	-0.124	0.352	-0.01	0.01	-0.07
D	135.0	-0.071	-0.124	0.352	-0.01	0.01	-0.07
D	135.0	-0.071	-0.122	0.316	-0.01	0.01	-0.06
D	110.0	-0.068	-0.117	0.316	-0.01	0.01	-0.06
D	110.0	-0.065	-0.112	0.297	-0.01	0.01	-0.06
D	91.3	-0.063	-0.108	0.297	-0.01	0.01	-0.05
D	91.3	-0.063	-0.108	0.298	-0.01	0.01	-0.06
D	53.8	-0.056	-0.096	0.298	-0.01	0.01	-0.05
D	53.8	-0.054	-0.093	0.298	-0.01	0.01	-0.05
D	47.5	-0.054	-0.093	0.298	-0.01	0.01	-0.05
D	47.5	-0.052	-0.089	0.298	-0.01	0.01	-0.05
D	41.3	-0.052	-0.089	0.298	-0.01	0.01	-0.05
D	41.3	-0.049	-0.085	0.298	-0.01	0.01	-0.05
D	35.0	-0.049	-0.085	0.298	-0.01	0.01	-0.05
D	35.0	-0.047	-0.082	0.298	-0.01	0.01	-0.04
D	10.0	-0.047	-0.082	0.298	-0.01	0.01	-0.04
D	10.0	-0.056	-0.096	0.405	-0.01	0.01	-0.04
D	5.0	-0.056	-0.096	0.405	-0.01	0.01	-0.04
D	5.0	-0.051	-0.088	0.367	-0.01	0.01	-0.04
D	0.0	-0.051	-0.088	0.367	-0.01	0.01	-0.04

GUY LOADING
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.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
60.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

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

Bare tower 80 mph wind at azimuth 120 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS (FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	0.529	-0.916	1.610	0.80	0.00	0.46	0.0	0.00
C	570.0	0.522	-0.905	1.610	0.80	0.00	0.45	0.0	0.00
C	513.0	0.208	-0.360	0.138	0.42	0.06	0.84	0.0	0.00
C	501.0	0.078	-0.135	0.064	-0.57	0.33	-0.80	0.0	0.00
C	500.0	0.023	-0.039	0.007	0.03	0.00	0.19	0.0	0.00
C	440.0	0.075	-0.130	0.064	-0.57	0.33	-0.77	0.0	0.00
C	429.0	0.175	-0.304	0.101	0.55	0.55	2.76	0.0	0.00
C	420.0	0.097	-0.167	0.073	0.50	0.04	1.25	0.0	0.00
C	400.0	0.018	-0.031	0.007	0.04	0.00	0.17	0.0	0.00
C	388.0	0.087	-0.150	0.076	-0.69	0.40	-0.90	0.0	0.00
C	370.0	0.093	-0.161	0.073	0.50	0.04	1.21	0.0	0.00
C	325.0	0.136	-0.235	0.119	0.81	-0.47	0.88	0.0	0.00
C	289.0	0.079	-0.136	0.060	0.53	0.00	1.26	0.0	0.00
C	280.0	0.015	-0.037	0.033	0.20	0.00	0.25	0.0	0.00
C	280.0	0.086	-0.149	0.073	0.50	0.04	1.11	0.0	0.00
C	270.0	0.060	-0.105	0.068	0.30	-0.52	0.00	0.0	0.00
C	260.0	0.511	-0.885	0.338	0.51	0.88	1.61	0.0	0.00
C	250.0	0.155	-0.269	0.152	0.99	0.00	1.50	0.0	0.00
C	248.0	0.097	-0.168	0.066	0.73	0.00	2.00	0.0	0.00
C	221.0	0.038	-0.065	0.014	-0.08	-0.05	-0.53	0.0	0.00
C	200.0	0.079	-0.137	0.092	-0.38	0.66	0.00	0.0	0.00
C	175.0	0.096	-0.166	0.064	-0.58	-0.34	-2.19	0.0	0.00
C	150.0	0.044	-0.076	0.059	-0.24	0.42	0.00	0.0	0.00
C	137.0	0.016	-0.046	0.028	-0.08	-0.15	-0.25	240.0	0.00
C	134.0	0.059	-0.102	0.028	-0.08	0.15	0.00	120.0	0.00
C	131.0	0.032	-0.037	0.028	0.17	0.00	0.24	0.0	0.00
C	90.0	0.014	-0.024	0.007	0.03	0.00	0.12	0.0	0.00
D	553.8	0.050	-0.087	0.192	0.01	0.00	0.02		
D	547.5	0.050	-0.087	0.192	0.01	0.00	0.02		
D	547.5	0.051	-0.089	0.193	0.01	0.00	0.02		
D	516.3	0.051	-0.088	0.193	0.01	0.00	0.02		
D	516.3	0.052	-0.091	0.194	0.00	0.00	0.02		
D	510.0	0.052	-0.091	0.194	0.00	0.00	0.02		
D	510.0	0.058	-0.100	0.244	0.00	0.00	0.02		
D	503.8	0.058	-0.100	0.244	0.00	0.00	0.02		
D	503.8	0.060	-0.104	0.244	0.00	0.01	0.02		
D	497.5	0.060	-0.104	0.244	0.00	0.01	0.02		
D	497.5	0.062	-0.107	0.245	0.00	0.01	0.02		
D	485.0	0.062	-0.107	0.245	0.00	0.01	0.02		
D	485.0	0.060	-0.104	0.230	0.00	0.01	0.02		
D	460.0	0.059	-0.102	0.230	0.00	0.01	0.01		
D	460.0	0.054	-0.093	0.184	0.00	0.01	0.01		
D	441.3	0.053	-0.092	0.184	0.00	0.01	0.01		
D	441.3	0.056	-0.098	0.187	-0.01	0.01	0.00		
D	435.0	0.056	-0.098	0.187	-0.01	0.01	0.00		
D	435.0	0.057	-0.099	0.188	-0.01	0.01	0.00		
D	422.5	0.057	-0.098	0.188	-0.01	0.01	0.00		
D	422.5	0.058	-0.101	0.188	-0.01	0.01	-0.01		
D	416.3	0.058	-0.101	0.188	-0.01	0.01	-0.01		
D	416.3	0.059	-0.102	0.188	-0.01	0.01	-0.01		
D	385.0	0.058	-0.100	0.188	-0.01	0.01	-0.01		
D	385.0	0.058	-0.101	0.193	-0.01	0.01	-0.01		

D	372.5	0.058	-0.101	0.193	-0.01	0.01	-0.01
D	372.5	0.059	-0.103	0.193	-0.01	0.01	-0.01
D	366.3	0.059	-0.103	0.193	-0.01	0.01	-0.01
D	366.3	0.060	-0.104	0.194	-0.01	0.01	0.00
D	360.0	0.060	-0.104	0.194	-0.01	0.01	0.00
D	360.0	0.065	-0.112	0.254	-0.01	0.01	0.00
D	335.0	0.064	-0.111	0.254	-0.01	0.01	0.00
D	335.0	0.067	-0.115	0.309	-0.01	0.01	0.00
D	328.8	0.067	-0.115	0.309	-0.01	0.01	0.00
D	328.8	0.067	-0.116	0.309	-0.01	0.01	-0.01
D	322.5	0.067	-0.116	0.309	-0.01	0.01	-0.01
D	322.5	0.068	-0.118	0.309	-0.01	0.01	-0.01
D	310.0	0.068	-0.117	0.309	-0.01	0.01	-0.01
D	310.0	0.064	-0.111	0.254	-0.01	0.01	-0.01
D	285.0	0.063	-0.109	0.254	-0.01	0.01	-0.01
D	285.0	0.059	-0.101	0.234	-0.01	0.01	-0.01
D	278.8	0.059	-0.101	0.234	-0.01	0.01	-0.01
D	278.8	0.056	-0.098	0.235	-0.01	0.01	-0.01
D	272.5	0.056	-0.098	0.235	-0.01	0.01	-0.01
D	272.5	0.057	-0.099	0.235	-0.01	0.01	-0.01
D	266.3	0.057	-0.099	0.235	-0.01	0.01	-0.01
D	266.3	0.057	-0.099	0.235	-0.01	0.01	-0.02
D	260.0	0.057	-0.099	0.235	-0.01	0.01	-0.02
D	260.0	0.066	-0.114	0.247	-0.01	0.01	-0.02
D	253.8	0.066	-0.114	0.247	-0.01	0.01	-0.02
D	253.8	0.068	-0.117	0.250	-0.01	0.01	-0.02
D	247.5	0.068	-0.117	0.250	-0.01	0.01	-0.02
D	247.5	0.072	-0.126	0.255	-0.01	0.01	-0.01
D	222.5	0.071	-0.123	0.255	-0.01	0.01	-0.01
D	222.5	0.071	-0.123	0.255	-0.01	0.01	-0.01
D	210.0	0.071	-0.122	0.255	-0.01	0.01	-0.01
D	210.0	0.072	-0.124	0.285	-0.01	0.01	-0.01
D	203.8	0.072	-0.124	0.285	-0.01	0.01	-0.01
D	203.8	0.071	-0.123	0.285	-0.01	0.01	-0.01
D	197.5	0.071	-0.123	0.285	-0.01	0.01	-0.01
D	197.5	0.071	-0.123	0.285	-0.01	0.01	-0.02
D	185.0	0.070	-0.121	0.285	-0.01	0.01	-0.01
D	185.0	0.072	-0.124	0.315	-0.01	0.01	-0.01
D	160.0	0.069	-0.120	0.315	-0.01	0.01	-0.01
D	160.0	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	153.8	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	153.8	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	147.5	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	147.5	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	141.3	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	141.3	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	135.0	0.070	-0.121	0.352	-0.01	0.01	-0.01
D	135.0	0.069	-0.120	0.316	-0.01	0.01	-0.01
D	110.0	0.066	-0.114	0.316	-0.01	0.01	-0.01
D	110.0	0.064	-0.111	0.297	-0.01	0.01	-0.01
D	91.3	0.062	-0.107	0.297	-0.01	0.01	-0.01
D	91.3	0.061	-0.106	0.298	-0.01	0.01	-0.01
D	85.0	0.061	-0.106	0.298	-0.01	0.01	-0.01
D	85.0	0.060	-0.105	0.298	-0.01	0.01	-0.01
D	53.8	0.054	-0.094	0.298	-0.01	0.01	-0.01
D	53.8	0.053	-0.091	0.298	-0.01	0.01	-0.01
D	47.5	0.053	-0.091	0.298	-0.01	0.01	-0.01
D	47.5	0.051	-0.088	0.298	-0.01	0.01	-0.01
D	41.3	0.051	-0.088	0.298	-0.01	0.01	-0.01
D	41.3	0.049	-0.084	0.298	-0.01	0.01	-0.01

D	35.0	0.049	-0.084	0.298	-0.01	0.01	-0.01
D	35.0	0.047	-0.081	0.298	-0.01	0.01	-0.01
D	10.0	0.047	-0.081	0.298	-0.01	0.01	-0.01
D	10.0	0.052	-0.090	0.405	-0.01	0.01	-0.01
D	5.0	0.052	-0.090	0.405	-0.01	0.01	-0.01
D	5.0	0.049	-0.085	0.367	-0.01	0.01	-0.01
D	0.0	0.049	-0.085	0.367	-0.01	0.01	-0.01

GUY LOADING
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.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
120.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION D ==========

Bare tower 80 mph wind at azimuth 180 deg

MAST LOADING
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LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	1.057	0.000	1.610	0.80	0.00	0.00	0.0	0.00
C	570.0	1.044	0.000	1.610	0.80	0.00	0.00	0.0	0.00
C	513.0	0.514	0.000	0.138	0.42	0.06	0.54	0.0	0.00
C	501.0	0.156	0.000	0.064	-0.57	0.33	0.80	0.0	0.00
C	500.0	0.045	0.000	0.007	0.03	0.00	0.00	0.0	0.00
C	440.0	0.150	0.000	0.064	-0.57	0.33	0.77	0.0	0.00
C	429.0	0.280	0.000	0.101	0.55	0.55	1.55	0.0	0.00

C	420.0	0.157	0.000	0.073	0.50	0.04	0.18	0.0	0.00
C	400.0	0.000	0.000	0.007	0.04	0.00	0.00	0.0	0.00
C	388.0	0.174	0.000	0.076	-0.69	0.40	0.90	0.0	0.00
C	370.0	0.151	0.000	0.073	0.50	0.04	0.18	0.0	0.00
C	325.0	0.272	0.000	0.119	0.81	-0.47	-0.88	0.0	0.00
C	289.0	0.106	0.000	0.060	0.53	0.00	0.00	0.0	0.00
C	280.0	0.064	0.000	0.033	0.20	0.00	0.00	0.0	0.00
C	280.0	0.140	0.000	0.073	0.50	0.04	0.16	0.0	0.00
C	270.0	0.171	0.000	0.068	0.30	-0.52	-1.37	0.0	0.00
C	260.0	1.566	0.000	0.338	0.51	0.88	3.50	0.0	0.00
C	250.0	0.553	0.000	0.152	0.99	0.00	0.00	0.0	0.00
C	248.0	0.101	0.000	0.066	0.73	0.00	0.00	0.0	0.00
C	221.0	0.075	0.000	0.014	-0.08	-0.05	-0.26	0.0	0.00
C	200.0	0.201	0.000	0.092	-0.38	0.66	1.48	0.0	0.00
C	175.0	0.116	0.000	0.064	-0.58	-0.34	-0.61	0.0	0.00
C	150.0	0.127	0.000	0.059	-0.24	0.42	0.93	0.0	0.00
C	137.0	0.084	0.100	0.028	-0.08	-0.15	-0.12	240.0	0.00
C	134.0	0.083	-0.100	0.028	-0.08	0.15	0.12	120.0	0.00
C	131.0	0.077	0.000	0.028	0.17	0.00	0.00	0.0	0.00
C	90.0	0.027	0.000	0.007	0.03	0.00	0.00	0.0	0.00

D	553.8	0.106	0.000	0.192	0.01	0.00	0.00
D	547.5	0.106	0.000	0.192	0.01	0.00	0.00
D	547.5	0.108	0.000	0.193	0.01	0.00	0.00
D	516.3	0.107	0.000	0.193	0.01	0.00	0.00
D	516.3	0.110	0.000	0.194	0.00	0.00	0.01
D	510.0	0.110	0.000	0.194	0.00	0.00	0.01
D	510.0	0.121	0.000	0.244	0.00	0.00	0.03
D	503.8	0.121	0.000	0.244	0.00	0.00	0.03
D	503.8	0.125	0.000	0.244	0.00	0.01	0.04
D	497.5	0.125	0.000	0.244	0.00	0.01	0.04
D	497.5	0.129	0.000	0.245	0.00	0.01	0.05
D	485.0	0.128	0.000	0.245	0.00	0.01	0.05
D	485.0	0.125	0.000	0.230	0.00	0.01	0.05
D	460.0	0.123	0.000	0.230	0.00	0.01	0.05
D	460.0	0.112	0.000	0.184	0.00	0.01	0.05
D	441.3	0.111	0.000	0.184	0.00	0.01	0.05
D	441.3	0.117	0.000	0.187	-0.01	0.01	0.05
D	435.0	0.117	0.000	0.187	-0.01	0.01	0.05
D	435.0	0.118	0.000	0.188	-0.01	0.01	0.05
D	422.5	0.117	0.000	0.188	-0.01	0.01	0.05
D	422.5	0.120	0.000	0.188	-0.01	0.01	0.05
D	416.3	0.120	0.000	0.188	-0.01	0.01	0.05
D	416.3	0.122	0.000	0.188	-0.01	0.01	0.05
D	385.0	0.120	0.000	0.188	-0.01	0.01	0.05
D	385.0	0.121	0.000	0.193	-0.01	0.01	0.05
D	372.5	0.120	0.000	0.193	-0.01	0.01	0.05
D	372.5	0.123	0.000	0.193	-0.01	0.01	0.05
D	366.3	0.123	0.000	0.193	-0.01	0.01	0.05
D	366.3	0.124	0.000	0.194	-0.01	0.01	0.06
D	360.0	0.124	0.000	0.194	-0.01	0.01	0.06
D	360.0	0.134	0.000	0.254	-0.01	0.01	0.06
D	335.0	0.132	0.000	0.254	-0.01	0.01	0.06
D	335.0	0.138	0.000	0.309	-0.01	0.01	0.06
D	322.5	0.139	0.000	0.309	-0.01	0.01	0.06
D	322.5	0.140	0.000	0.309	-0.01	0.01	0.06
D	310.0	0.140	0.000	0.309	-0.01	0.01	0.06
D	310.0	0.133	0.000	0.254	-0.01	0.01	0.06
D	285.0	0.131	0.000	0.254	-0.01	0.01	0.05
D	285.0	0.121	0.000	0.234	-0.01	0.01	0.05

D	278.8	0.121	0.000	0.234	-0.01	0.01	0.05
D	278.8	0.116	0.000	0.235	-0.01	0.01	0.04
D	272.5	0.116	0.000	0.235	-0.01	0.01	0.04
D	272.5	0.117	0.000	0.235	-0.01	0.01	0.04
D	266.3	0.117	0.000	0.235	-0.01	0.01	0.04
D	266.3	0.118	0.000	0.235	-0.01	0.01	0.04
D	260.0	0.118	0.000	0.235	-0.01	0.01	0.04
D	260.0	0.135	0.000	0.247	-0.01	0.01	0.04
D	247.5	0.139	0.000	0.250	-0.01	0.01	0.04
D	247.5	0.148	0.000	0.255	-0.01	0.01	0.06
D	222.5	0.145	0.000	0.255	-0.01	0.01	0.06
D	222.5	0.145	0.000	0.255	-0.01	0.01	0.06
D	210.0	0.144	0.000	0.255	-0.01	0.01	0.06
D	210.0	0.146	0.000	0.285	-0.01	0.01	0.06
D	185.0	0.143	0.000	0.285	-0.01	0.01	0.06
D	185.0	0.146	0.000	0.315	-0.01	0.01	0.06
D	160.0	0.142	0.000	0.315	-0.01	0.01	0.06
D	160.0	0.143	0.000	0.352	-0.01	0.01	0.06
D	153.8	0.143	0.000	0.352	-0.01	0.01	0.06
D	153.8	0.143	0.000	0.352	-0.01	0.01	0.06
D	147.5	0.143	0.000	0.352	-0.01	0.01	0.06
D	147.5	0.143	0.000	0.352	-0.01	0.01	0.06
D	141.3	0.143	0.000	0.352	-0.01	0.01	0.06
D	141.3	0.142	0.000	0.352	-0.01	0.01	0.06
D	135.0	0.142	0.000	0.352	-0.01	0.01	0.06
D	135.0	0.140	0.000	0.316	-0.01	0.01	0.05
D	110.0	0.134	0.000	0.316	-0.01	0.01	0.05
D	110.0	0.129	0.000	0.297	-0.01	0.01	0.05
D	91.3	0.125	0.000	0.297	-0.01	0.01	0.05
D	91.3	0.125	0.000	0.298	-0.01	0.01	0.05
D	53.8	0.111	0.000	0.298	-0.01	0.01	0.04
D	53.8	0.107	0.000	0.298	-0.01	0.01	0.04
D	47.5	0.107	0.000	0.298	-0.01	0.01	0.04
D	47.5	0.103	0.000	0.298	-0.01	0.01	0.04
D	41.3	0.103	0.000	0.298	-0.01	0.01	0.04
D	41.3	0.098	0.000	0.298	-0.01	0.01	0.04
D	35.0	0.098	0.000	0.298	-0.01	0.01	0.04
D	35.0	0.094	0.000	0.298	-0.01	0.01	0.03
D	10.0	0.094	0.000	0.298	-0.01	0.01	0.03
D	10.0	0.111	0.000	0.405	-0.01	0.01	0.03
D	5.0	0.111	0.000	0.405	-0.01	0.01	0.03
D	5.0	0.102	0.000	0.367	-0.01	0.01	0.03
D	0.0	0.102	0.000	0.367	-0.01	0.01	0.03

GUY LOADING
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.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
180.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors

5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING..				.....MAXIMUMS.....			
INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION E ==========

Bare tower 80 mph wind at azimuth 240 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	0.529	0.916	1.610	0.80	0.00	-0.46	0.0	0.00
C	570.0	0.522	0.905	1.610	0.80	0.00	-0.45	0.0	0.00
C	513.0	0.151	0.262	0.138	0.42	0.06	-0.63	0.0	0.00
C	501.0	0.126	0.219	0.064	-0.57	0.33	2.83	0.0	0.00
C	500.0	0.023	0.039	0.007	0.03	0.00	-0.19	0.0	0.00
C	440.0	0.122	0.211	0.064	-0.57	0.33	2.73	0.0	0.00
C	429.0	0.104	0.180	0.101	0.55	0.55	-0.40	0.0	0.00
C	420.0	0.097	0.167	0.073	0.50	0.04	-1.25	0.0	0.00
C	400.0	0.018	0.031	0.007	0.04	0.00	-0.17	0.0	0.00
C	388.0	0.132	0.228	0.076	-0.69	0.40	2.97	0.0	0.00
C	370.0	0.093	0.161	0.073	0.50	0.04	-1.20	0.0	0.00
C	325.0	0.163	0.282	0.119	0.81	-0.47	-2.60	0.0	0.00
C	289.0	0.079	0.136	0.060	0.53	0.00	-1.26	0.0	0.00
C	280.0	0.015	0.037	0.033	0.20	0.00	-0.25	0.0	0.00
C	280.0	0.086	0.149	0.073	0.50	0.04	-1.11	0.0	0.00
C	270.0	0.086	0.148	0.068	0.30	-0.52	-1.37	0.0	0.00
C	260.0	0.647	1.121	0.338	0.51	0.88	-0.94	0.0	0.00
C	250.0	0.155	0.269	0.152	0.99	0.00	-1.50	0.0	0.00
C	248.0	0.097	0.168	0.066	0.73	0.00	-2.00	0.0	0.00
C	221.0	0.038	0.065	0.014	-0.08	-0.05	0.26	0.0	0.00
C	200.0	0.101	0.174	0.092	-0.38	0.66	1.48	0.0	0.00
C	175.0	0.058	0.101	0.064	-0.58	-0.34	0.61	0.0	0.00
C	150.0	0.064	0.110	0.059	-0.24	0.42	0.93	0.0	0.00
C	137.0	0.059	0.103	0.028	-0.08	-0.15	0.00	240.0	0.00
C	134.0	0.016	0.046	0.028	-0.08	0.15	0.24	120.0	0.00
C	131.0	0.032	0.037	0.028	0.17	0.00	-0.24	0.0	0.00
C	90.0	0.014	0.024	0.007	0.03	0.00	-0.12	0.0	0.00
D	553.8	0.050	0.087	0.192	0.01	0.00	-0.02		
D	547.5	0.050	0.087	0.192	0.01	0.00	-0.02		
D	547.5	0.052	0.090	0.193	0.01	0.00	-0.02		

D	516.3	0.051	0.089	0.193	0.01	0.00	-0.02
D	516.3	0.053	0.091	0.194	0.00	0.00	-0.01
D	510.0	0.053	0.091	0.194	0.00	0.00	-0.01
D	510.0	0.058	0.101	0.244	0.00	0.00	0.01
D	503.8	0.058	0.101	0.244	0.00	0.00	0.01
D	503.8	0.060	0.104	0.244	0.00	0.01	0.02
D	497.5	0.060	0.104	0.244	0.00	0.01	0.02
D	497.5	0.062	0.108	0.245	0.00	0.01	0.04
D	485.0	0.062	0.107	0.245	0.00	0.01	0.04
D	485.0	0.060	0.104	0.230	0.00	0.01	0.04
D	460.0	0.060	0.103	0.230	0.00	0.01	0.04
D	460.0	0.054	0.094	0.184	0.00	0.01	0.03
D	441.3	0.054	0.093	0.184	0.00	0.01	0.03
D	441.3	0.057	0.098	0.187	-0.01	0.01	0.05
D	435.0	0.057	0.098	0.187	-0.01	0.01	0.05
D	435.0	0.057	0.099	0.188	-0.01	0.01	0.05
D	422.5	0.057	0.099	0.188	-0.01	0.01	0.05
D	422.5	0.058	0.101	0.188	-0.01	0.01	0.06
D	416.3	0.058	0.101	0.188	-0.01	0.01	0.06
D	416.3	0.059	0.103	0.188	-0.01	0.01	0.06
D	385.0	0.058	0.101	0.188	-0.01	0.01	0.06
D	385.0	0.059	0.102	0.193	-0.01	0.01	0.06
D	372.5	0.058	0.101	0.193	-0.01	0.01	0.06
D	372.5	0.060	0.104	0.193	-0.01	0.01	0.06
D	366.3	0.060	0.104	0.193	-0.01	0.01	0.06
D	366.3	0.061	0.105	0.194	-0.01	0.01	0.06
D	360.0	0.061	0.105	0.194	-0.01	0.01	0.06
D	360.0	0.065	0.113	0.254	-0.01	0.01	0.06
D	335.0	0.064	0.111	0.254	-0.01	0.01	0.06
D	335.0	0.067	0.116	0.309	-0.01	0.01	0.06
D	328.8	0.067	0.116	0.309	-0.01	0.01	0.06
D	328.8	0.067	0.117	0.309	-0.01	0.01	0.06
D	322.5	0.067	0.117	0.309	-0.01	0.01	0.06
D	322.5	0.068	0.118	0.309	-0.01	0.01	0.07
D	310.0	0.068	0.118	0.309	-0.01	0.01	0.07
D	310.0	0.064	0.112	0.254	-0.01	0.01	0.07
D	285.0	0.063	0.110	0.254	-0.01	0.01	0.07
D	285.0	0.059	0.102	0.234	-0.01	0.01	0.06
D	278.8	0.059	0.102	0.234	-0.01	0.01	0.06
D	278.8	0.057	0.098	0.235	-0.01	0.01	0.05
D	272.5	0.057	0.098	0.235	-0.01	0.01	0.05
D	272.5	0.057	0.099	0.235	-0.01	0.01	0.06
D	266.3	0.057	0.099	0.235	-0.01	0.01	0.06
D	266.3	0.058	0.100	0.235	-0.01	0.01	0.06
D	260.0	0.058	0.100	0.235	-0.01	0.01	0.06
D	260.0	0.066	0.115	0.247	-0.01	0.01	0.06
D	247.5	0.068	0.118	0.250	-0.01	0.01	0.06
D	247.5	0.073	0.126	0.255	-0.01	0.01	0.07
D	222.5	0.071	0.123	0.255	-0.01	0.01	0.07
D	222.5	0.071	0.123	0.255	-0.01	0.01	0.07
D	210.0	0.071	0.123	0.255	-0.01	0.01	0.08
D	210.0	0.072	0.125	0.285	-0.01	0.01	0.08
D	191.3	0.071	0.123	0.285	-0.01	0.01	0.08
D	191.3	0.070	0.122	0.285	-0.01	0.01	0.07
D	185.0	0.070	0.122	0.285	-0.01	0.01	0.07
D	185.0	0.072	0.124	0.315	-0.01	0.01	0.07
D	160.0	0.070	0.121	0.315	-0.01	0.01	0.07
D	160.0	0.070	0.122	0.352	-0.01	0.01	0.07
D	153.8	0.070	0.122	0.352	-0.01	0.01	0.07
D	153.8	0.070	0.121	0.352	-0.01	0.01	0.07

D	147.5	0.070	0.121	0.352	-0.01	0.01	0.07
D	147.5	0.070	0.121	0.352	-0.01	0.01	0.07
D	141.3	0.070	0.121	0.352	-0.01	0.01	0.07
D	141.3	0.070	0.121	0.352	-0.01	0.01	0.07
D	135.0	0.070	0.121	0.352	-0.01	0.01	0.07
D	135.0	0.069	0.119	0.316	-0.01	0.01	0.06
D	110.0	0.066	0.114	0.316	-0.01	0.01	0.06
D	110.0	0.064	0.110	0.297	-0.01	0.01	0.06
D	91.3	0.062	0.106	0.297	-0.01	0.01	0.05
D	91.3	0.062	0.107	0.298	-0.01	0.01	0.06
D	53.8	0.054	0.094	0.298	-0.01	0.01	0.05
D	53.8	0.052	0.091	0.298	-0.01	0.01	0.05
D	47.5	0.052	0.091	0.298	-0.01	0.01	0.05
D	47.5	0.051	0.088	0.298	-0.01	0.01	0.05
D	41.3	0.051	0.088	0.298	-0.01	0.01	0.05
D	41.3	0.049	0.084	0.298	-0.01	0.01	0.05
D	35.0	0.049	0.084	0.298	-0.01	0.01	0.05
D	35.0	0.047	0.080	0.298	-0.01	0.01	0.04
D	10.0	0.047	0.080	0.298	-0.01	0.01	0.04
D	10.0	0.052	0.090	0.405	-0.01	0.01	0.04
D	5.0	0.052	0.090	0.405	-0.01	0.01	0.04
D	5.0	0.049	0.085	0.367	-0.01	0.01	0.04
D	0.0	0.049	0.085	0.367	-0.01	0.01	0.04

GUY LOADING
==========

.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
240.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
=================

...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION F ==========

Bare tower 80 mph wind at azimuth 300 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS (FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-0.529	0.916	1.610	0.80	0.00	-0.46	0.0	0.00
C	570.0	-0.522	0.905	1.610	0.80	0.00	-0.45	0.0	0.00
C	513.0	-0.208	0.360	0.138	0.42	0.06	-0.84	0.0	0.00
C	501.0	-0.078	0.135	0.064	-0.57	0.33	0.80	0.0	0.00
C	500.0	-0.023	0.039	0.007	0.03	0.00	-0.19	0.0	0.00
C	440.0	-0.075	0.130	0.064	-0.57	0.33	0.77	0.0	0.00
C	429.0	-0.175	0.304	0.101	0.55	0.55	-2.76	0.0	0.00
C	420.0	-0.097	0.167	0.073	0.50	0.04	-1.25	0.0	0.00
C	400.0	-0.018	0.031	0.007	0.04	0.00	-0.17	0.0	0.00
C	388.0	-0.087	0.150	0.076	-0.69	0.40	0.90	0.0	0.00
C	370.0	-0.093	0.161	0.073	0.50	0.04	-1.21	0.0	0.00
C	325.0	-0.136	0.235	0.119	0.81	-0.47	-0.88	0.0	0.00
C	289.0	-0.079	0.136	0.060	0.53	0.00	-1.26	0.0	0.00
C	280.0	-0.044	0.050	0.033	0.20	0.00	-0.30	0.0	0.00
C	280.0	-0.086	0.149	0.073	0.50	0.04	-1.11	0.0	0.00
C	270.0	-0.060	0.105	0.068	0.30	-0.52	0.00	0.0	0.00
C	260.0	-0.511	0.885	0.338	0.51	0.88	-1.61	0.0	0.00
C	250.0	-0.155	0.269	0.152	0.99	0.00	-1.50	0.0	0.00
C	248.0	-0.097	0.168	0.066	0.73	0.00	-2.00	0.0	0.00
C	221.0	-0.038	0.065	0.014	-0.08	-0.05	0.53	0.0	0.00
C	200.0	-0.079	0.137	0.092	-0.38	0.66	0.00	0.0	0.00
C	175.0	-0.096	0.166	0.064	-0.58	-0.34	2.19	0.0	0.00
C	150.0	-0.044	0.076	0.059	-0.24	0.42	0.00	0.0	0.00
C	137.0	0.045	0.123	0.028	-0.08	-0.15	0.12	240.0	0.00
C	134.0	-0.039	0.067	0.028	-0.08	0.15	0.00	120.0	0.00
C	131.0	-0.127	0.022	0.028	0.17	0.00	-0.12	0.0	0.00
C	90.0	-0.014	0.024	0.007	0.03	0.00	-0.12	0.0	0.00
D	553.8	-0.053	0.092	0.192	0.01	0.00	-0.02		
D	547.5	-0.053	0.092	0.192	0.01	0.00	-0.02		
D	547.5	-0.054	0.094	0.193	0.01	0.00	-0.02		
D	516.3	-0.053	0.093	0.193	0.01	0.00	-0.02		
D	516.3	-0.055	0.095	0.194	0.00	0.00	-0.02		
D	510.0	-0.055	0.095	0.194	0.00	0.00	-0.02		
D	510.0	-0.060	0.105	0.244	0.00	0.00	-0.02		
D	503.8	-0.060	0.105	0.244	0.00	0.00	-0.02		
D	503.8	-0.063	0.108	0.244	0.00	0.01	-0.02		
D	497.5	-0.063	0.108	0.244	0.00	0.01	-0.02		
D	497.5	-0.064	0.112	0.245	0.00	0.01	-0.02		
D	485.0	-0.064	0.111	0.245	0.00	0.01	-0.02		
D	485.0	-0.062	0.108	0.230	0.00	0.01	-0.02		
D	460.0	-0.062	0.107	0.230	0.00	0.01	-0.01		
D	460.0	-0.056	0.097	0.184	0.00	0.01	-0.01		
D	441.3	-0.055	0.096	0.184	0.00	0.01	-0.01		
D	441.3	-0.058	0.101	0.187	-0.01	0.01	0.00		
D	435.0	-0.058	0.101	0.187	-0.01	0.01	0.00		
D	435.0	-0.059	0.102	0.188	-0.01	0.01	0.00		
D	422.5	-0.059	0.102	0.188	-0.01	0.01	0.00		
D	422.5	-0.060	0.104	0.188	-0.01	0.01	0.01		
D	416.3	-0.060	0.104	0.188	-0.01	0.01	0.01		
D	416.3	-0.061	0.106	0.188	-0.01	0.01	0.01		

D	385.0	-0.060	0.104	0.188	-0.01	0.01	0.01
D	385.0	-0.060	0.105	0.193	-0.01	0.01	0.01
D	372.5	-0.060	0.104	0.193	-0.01	0.01	0.01
D	372.5	-0.061	0.106	0.193	-0.01	0.01	0.01
D	366.3	-0.061	0.106	0.193	-0.01	0.01	0.01
D	366.3	-0.062	0.108	0.194	-0.01	0.01	0.00
D	360.0	-0.062	0.108	0.194	-0.01	0.01	0.00
D	360.0	-0.067	0.116	0.254	-0.01	0.01	0.00
D	335.0	-0.066	0.115	0.254	-0.01	0.01	0.00
D	335.0	-0.069	0.119	0.309	-0.01	0.01	0.00
D	328.8	-0.069	0.119	0.309	-0.01	0.01	0.00
D	328.8	-0.069	0.120	0.309	-0.01	0.01	0.01
D	322.5	-0.069	0.120	0.309	-0.01	0.01	0.01
D	322.5	-0.070	0.122	0.309	-0.01	0.01	0.01
D	310.0	-0.070	0.121	0.309	-0.01	0.01	0.01
D	310.0	-0.066	0.115	0.254	-0.01	0.01	0.01
D	285.0	-0.065	0.113	0.254	-0.01	0.01	0.01
D	285.0	-0.060	0.105	0.234	-0.01	0.01	0.01
D	278.8	-0.060	0.105	0.234	-0.01	0.01	0.01
D	278.8	-0.058	0.101	0.235	-0.01	0.01	0.01
D	272.5	-0.058	0.101	0.235	-0.01	0.01	0.01
D	272.5	-0.059	0.102	0.235	-0.01	0.01	0.01
D	266.3	-0.059	0.102	0.235	-0.01	0.01	0.01
D	266.3	-0.059	0.102	0.235	-0.01	0.01	0.02
D	260.0	-0.059	0.102	0.235	-0.01	0.01	0.02
D	260.0	-0.068	0.117	0.247	-0.01	0.01	0.02
D	253.8	-0.068	0.117	0.247	-0.01	0.01	0.02
D	253.8	-0.069	0.120	0.250	-0.01	0.01	0.02
D	247.5	-0.069	0.120	0.250	-0.01	0.01	0.02
D	247.5	-0.074	0.128	0.255	-0.01	0.01	0.01
D	222.5	-0.072	0.125	0.255	-0.01	0.01	0.01
D	222.5	-0.072	0.125	0.255	-0.01	0.01	0.01
D	210.0	-0.072	0.125	0.255	-0.01	0.01	0.01
D	210.0	-0.073	0.126	0.285	-0.01	0.01	0.01
D	203.8	-0.073	0.126	0.285	-0.01	0.01	0.01
D	203.8	-0.073	0.126	0.285	-0.01	0.01	0.01
D	197.5	-0.073	0.126	0.285	-0.01	0.01	0.01
D	197.5	-0.072	0.125	0.285	-0.01	0.01	0.02
D	185.0	-0.072	0.124	0.285	-0.01	0.01	0.01
D	185.0	-0.073	0.127	0.315	-0.01	0.01	0.01
D	160.0	-0.071	0.123	0.315	-0.01	0.01	0.01
D	160.0	-0.072	0.124	0.352	-0.01	0.01	0.01
D	153.8	-0.072	0.124	0.352	-0.01	0.01	0.01
D	153.8	-0.071	0.124	0.352	-0.01	0.01	0.01
D	147.5	-0.071	0.124	0.352	-0.01	0.01	0.01
D	147.5	-0.071	0.124	0.352	-0.01	0.01	0.01
D	141.3	-0.071	0.124	0.352	-0.01	0.01	0.01
D	141.3	-0.071	0.123	0.352	-0.01	0.01	0.01
D	135.0	-0.071	0.123	0.352	-0.01	0.01	0.01
D	135.0	-0.071	0.122	0.316	-0.01	0.01	0.01
D	110.0	-0.068	0.117	0.316	-0.01	0.01	0.01
D	110.0	-0.065	0.112	0.297	-0.01	0.01	0.01
D	91.3	-0.063	0.109	0.297	-0.01	0.01	0.01
D	91.3	-0.062	0.108	0.298	-0.01	0.01	0.01
D	85.0	-0.062	0.108	0.298	-0.01	0.01	0.01
D	85.0	-0.062	0.106	0.298	-0.01	0.01	0.01
D	53.8	-0.055	0.096	0.298	-0.01	0.01	0.01
D	53.8	-0.054	0.093	0.298	-0.01	0.01	0.01
D	47.5	-0.054	0.093	0.298	-0.01	0.01	0.01
D	47.5	-0.052	0.089	0.298	-0.01	0.01	0.01

D	41.3	-0.052	0.089	0.298	-0.01	0.01	0.01
D	41.3	-0.049	0.086	0.298	-0.01	0.01	0.01
D	35.0	-0.049	0.086	0.298	-0.01	0.01	0.01
D	35.0	-0.047	0.082	0.298	-0.01	0.01	0.01
D	10.0	-0.047	0.082	0.298	-0.01	0.01	0.01
D	10.0	-0.056	0.096	0.405	-0.01	0.01	0.01
D	5.0	-0.056	0.096	0.405	-0.01	0.01	0.01
D	5.0	-0.051	0.088	0.367	-0.01	0.01	0.01
D	0.0	-0.051	0.088	0.367	-0.01	0.01	0.01

GUY LOADING
==========

.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
300.0	80.0	0.00	0.00	0.00	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION G ==========

Iced tower 70 mph wind at azimuth 0 deg

MAST LOADING
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LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-0.885	0.000	1.781	0.89	0.00	0.00	0.0	0.00
C	570.0	-0.874	0.000	1.781	0.89	0.00	0.00	0.0	0.00
C	513.0	-0.512	0.000	0.243	0.71	0.11	-0.44	0.0	0.00
C	501.0	-0.159	0.000	0.112	-0.97	0.56	-0.75	0.0	0.00
C	500.0	-0.068	0.000	0.018	0.09	0.00	0.00	0.0	0.00

C	440.0	-0.153	0.000	0.112	-0.97	0.56	-0.73	0.0	0.00
C	429.0	-0.290	0.000	0.174	0.91	0.91	-1.52	0.0	0.00
C	420.0	-0.164	0.000	0.117	0.73	0.12	-0.33	0.0	0.00
C	400.0	0.000	0.000	0.020	0.11	0.00	0.00	0.0	0.00
C	388.0	-0.178	0.000	0.131	-1.14	0.66	-0.86	0.0	0.00
C	370.0	-0.158	0.000	0.117	0.73	0.12	-0.31	0.0	0.00
C	325.0	-0.278	0.000	0.202	1.37	-0.79	0.90	0.0	0.00
C	289.0	-0.110	0.000	0.101	0.87	0.00	0.00	0.0	0.00
C	280.0	-0.073	0.000	0.051	0.30	0.00	0.00	0.0	0.00
C	280.0	-0.146	0.000	0.117	0.73	0.12	-0.29	0.0	0.00
C	270.0	-0.174	0.000	0.113	0.49	-0.85	1.32	0.0	0.00
C	260.0	-1.337	0.000	0.570	0.91	1.57	-3.45	0.0	0.00
C	250.0	-0.479	0.000	0.235	1.56	0.00	0.00	0.0	0.00
C	248.0	-0.106	0.000	0.119	1.27	0.00	0.00	0.0	0.00
C	221.0	-0.115	0.000	0.037	-0.22	-0.13	0.40	0.0	0.00
C	200.0	-0.206	0.000	0.148	-0.60	1.03	-1.45	0.0	0.00
C	175.0	-0.119	0.000	0.114	-1.00	-0.57	0.57	0.0	0.00
C	150.0	-0.129	0.000	0.099	-0.40	0.69	-0.90	0.0	0.00
C	137.0	-0.040	-0.008	0.046	-0.14	-0.24	0.20	240.0	0.00
C	134.0	-0.040	0.008	0.046	-0.14	0.24	-0.20	120.0	0.00
C	131.0	-0.097	0.000	0.046	0.28	0.00	0.00	0.0	0.00
C	90.0	-0.041	0.000	0.018	0.09	0.00	0.00	0.0	0.00
D	553.8	-0.099	0.000	0.229	0.01	0.00	0.00		
D	547.5	-0.099	0.000	0.229	0.01	0.00	0.00		
D	547.5	-0.101	0.000	0.231	0.01	0.00	0.00		
D	516.3	-0.100	0.000	0.231	0.01	0.00	0.00		
D	516.3	-0.104	0.000	0.232	0.01	0.00	-0.01		
D	510.0	-0.104	0.000	0.232	0.01	0.00	-0.01		
D	510.0	-0.112	0.000	0.285	0.00	0.01	-0.03		
D	503.8	-0.112	0.000	0.285	0.00	0.01	-0.03		
D	503.8	-0.119	0.000	0.287	0.00	0.01	-0.05		
D	497.5	-0.119	0.000	0.287	0.00	0.01	-0.05		
D	497.5	-0.124	0.000	0.289	0.00	0.02	-0.06		
D	485.0	-0.124	0.000	0.289	0.00	0.02	-0.06		
D	485.0	-0.121	0.000	0.272	0.00	0.02	-0.06		
D	460.0	-0.120	0.000	0.272	0.00	0.02	-0.06		
D	460.0	-0.112	0.000	0.220	0.00	0.02	-0.06		
D	441.3	-0.112	0.000	0.220	0.00	0.02	-0.06		
D	441.3	-0.118	0.000	0.224	-0.01	0.02	-0.06		
D	435.0	-0.118	0.000	0.224	-0.01	0.02	-0.06		
D	435.0	-0.120	0.000	0.225	-0.02	0.02	-0.06		
D	422.5	-0.119	0.000	0.225	-0.02	0.02	-0.06		
D	422.5	-0.123	0.000	0.226	-0.02	0.02	-0.06		
D	416.3	-0.123	0.000	0.226	-0.02	0.02	-0.06		
D	416.3	-0.125	0.000	0.227	-0.02	0.02	-0.06		
D	385.0	-0.123	0.000	0.227	-0.02	0.02	-0.05		
D	385.0	-0.123	0.000	0.232	-0.02	0.02	-0.05		
D	372.5	-0.123	0.000	0.232	-0.02	0.02	-0.05		
D	372.5	-0.126	0.000	0.233	-0.02	0.02	-0.06		
D	366.3	-0.126	0.000	0.233	-0.02	0.02	-0.06		
D	366.3	-0.128	0.000	0.234	-0.02	0.02	-0.07		
D	360.0	-0.128	0.000	0.234	-0.02	0.02	-0.07		
D	360.0	-0.134	0.000	0.301	-0.02	0.02	-0.07		
D	335.0	-0.132	0.000	0.301	-0.02	0.02	-0.07		
D	335.0	-0.136	0.000	0.358	-0.02	0.02	-0.07		
D	322.5	-0.136	0.000	0.358	-0.02	0.02	-0.07		
D	322.5	-0.137	0.000	0.358	-0.02	0.02	-0.06		
D	310.0	-0.136	0.000	0.358	-0.02	0.02	-0.06		
D	310.0	-0.132	0.000	0.301	-0.02	0.02	-0.06		

D	285.0	-0.129	0.000	0.301	-0.02	0.02	-0.06
D	285.0	-0.122	0.000	0.278	-0.02	0.02	-0.06
D	278.8	-0.122	0.000	0.278	-0.02	0.02	-0.06
D	278.8	-0.114	0.000	0.280	-0.02	0.02	-0.05
D	272.5	-0.114	0.000	0.280	-0.02	0.02	-0.05
D	272.5	-0.115	0.000	0.280	-0.02	0.02	-0.05
D	266.3	-0.115	0.000	0.280	-0.02	0.02	-0.05
D	266.3	-0.115	0.000	0.281	-0.02	0.02	-0.05
D	260.0	-0.115	0.000	0.281	-0.02	0.02	-0.05
D	260.0	-0.128	0.000	0.306	-0.02	0.02	-0.05
D	247.5	-0.130	0.000	0.313	-0.02	0.02	-0.05
D	247.5	-0.137	0.000	0.325	-0.02	0.02	-0.07
D	222.5	-0.134	0.000	0.325	-0.02	0.02	-0.07
D	222.5	-0.136	0.000	0.325	-0.02	0.03	-0.08
D	216.3	-0.136	0.000	0.325	-0.02	0.03	-0.08
D	216.3	-0.135	0.000	0.325	-0.02	0.03	-0.08
D	210.0	-0.135	0.000	0.325	-0.02	0.03	-0.08
D	210.0	-0.137	0.000	0.357	-0.02	0.03	-0.08
D	197.5	-0.137	0.000	0.357	-0.03	0.03	-0.08
D	197.5	-0.137	0.000	0.357	-0.03	0.03	-0.08
D	185.0	-0.136	0.000	0.357	-0.03	0.03	-0.08
D	185.0	-0.137	0.000	0.390	-0.03	0.03	-0.07
D	160.0	-0.133	0.000	0.390	-0.03	0.03	-0.07
D	160.0	-0.134	0.000	0.428	-0.03	0.03	-0.07
D	153.8	-0.134	0.000	0.428	-0.03	0.03	-0.07
D	153.8	-0.134	0.000	0.429	-0.03	0.03	-0.07
D	147.5	-0.134	0.000	0.429	-0.03	0.03	-0.07
D	147.5	-0.135	0.000	0.430	-0.02	0.03	-0.08
D	141.3	-0.135	0.000	0.430	-0.02	0.03	-0.08
D	141.3	-0.135	0.000	0.431	-0.02	0.03	-0.07
D	135.0	-0.135	0.000	0.431	-0.02	0.03	-0.07
D	135.0	-0.136	0.000	0.394	-0.02	0.03	-0.06
D	110.0	-0.130	0.000	0.394	-0.02	0.03	-0.06
D	110.0	-0.126	0.000	0.371	-0.02	0.03	-0.06
D	91.3	-0.122	0.000	0.371	-0.02	0.03	-0.06
D	91.3	-0.123	0.000	0.372	-0.02	0.03	-0.06
D	53.8	-0.109	0.000	0.372	-0.02	0.03	-0.05
D	53.8	-0.105	0.000	0.372	-0.02	0.03	-0.05
D	47.5	-0.105	0.000	0.372	-0.02	0.03	-0.05
D	47.5	-0.101	0.000	0.372	-0.02	0.03	-0.05
D	41.3	-0.101	0.000	0.372	-0.02	0.03	-0.05
D	41.3	-0.097	0.000	0.372	-0.02	0.03	-0.04
D	35.0	-0.097	0.000	0.372	-0.02	0.03	-0.04
D	35.0	-0.093	0.000	0.372	-0.02	0.03	-0.04
D	10.0	-0.093	0.000	0.372	-0.02	0.03	-0.04
D	10.0	-0.102	0.000	0.521	-0.02	0.03	-0.04
D	5.0	-0.102	0.000	0.521	-0.02	0.03	-0.04
D	5.0	-0.086	0.000	0.463	-0.02	0.03	-0.04
D	0.0	-0.086	0.000	0.463	-0.02	0.03	-0.04

GUY LOADING
==========

.. WIND LOADING ...			TEMP	.ICE LOAD..		CONV	PROFILES.		.LOAD FACTORS.		
AZI	SPEED	REF PRESS	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
0.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING..				.....MAXIMUMS.....			
INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION H ==========

Iced tower 70 mph wind at azimuth 60 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-0.442	-0.766	1.781	0.89	0.00	0.38	0.0	0.00
C	570.0	-0.437	-0.757	1.781	0.89	0.00	0.38	0.0	0.00
C	513.0	-0.156	-0.270	0.243	0.71	0.11	0.60	0.0	0.00
C	501.0	-0.124	-0.215	0.112	-0.97	0.56	-2.57	0.0	0.00
C	500.0	-0.034	-0.059	0.018	0.09	0.00	0.29	0.0	0.00
C	440.0	-0.120	-0.207	0.112	-0.97	0.56	-2.48	0.0	0.00
C	429.0	-0.109	-0.188	0.174	0.91	0.91	0.39	0.0	0.00
C	420.0	-0.099	-0.172	0.117	0.73	0.12	1.00	0.0	0.00
C	400.0	-0.017	-0.030	0.020	0.11	0.00	0.16	0.0	0.00
C	388.0	-0.130	-0.226	0.131	-1.14	0.66	-2.73	0.0	0.00
C	370.0	-0.096	-0.166	0.117	0.73	0.12	0.96	0.0	0.00
C	325.0	-0.164	-0.285	0.202	1.37	-0.79	2.58	0.0	0.00
C	289.0	-0.079	-0.138	0.101	0.87	0.00	1.20	0.0	0.00
C	280.0	-0.036	-0.042	0.051	0.30	0.00	0.25	0.0	0.00
C	280.0	-0.089	-0.153	0.117	0.73	0.12	0.89	0.0	0.00
C	270.0	-0.087	-0.151	0.113	0.49	-0.85	1.32	0.0	0.00
C	260.0	-0.547	-0.947	0.570	0.91	1.57	0.84	0.0	0.00
C	250.0	-0.131	-0.227	0.235	1.56	0.00	1.33	0.0	0.00
C	248.0	-0.098	-0.169	0.119	1.27	0.00	1.85	0.0	0.00
C	221.0	-0.058	-0.100	0.037	-0.22	-0.13	-0.40	0.0	0.00
C	200.0	-0.103	-0.178	0.148	-0.60	1.03	-1.45	0.0	0.00
C	175.0	-0.059	-0.103	0.114	-1.00	-0.57	-0.57	0.0	0.00
C	150.0	-0.064	-0.112	0.099	-0.40	0.69	-0.90	0.0	0.00
C	137.0	-0.032	-0.056	0.046	-0.14	-0.24	0.00	240.0	0.00
C	134.0	0.037	-0.101	0.046	-0.14	0.24	-0.10	120.0	0.00

C	131.0	-0.106	-0.018	0.046	0.28	0.00	0.10	0.0	0.00
C	90.0	-0.021	-0.036	0.018	0.09	0.00	0.18	0.0	0.00
D	553.8	-0.052	-0.089	0.229	0.01	0.00	0.02		
D	547.5	-0.052	-0.089	0.229	0.01	0.00	0.02		
D	547.5	-0.053	-0.092	0.231	0.01	0.00	0.02		
D	516.3	-0.052	-0.091	0.231	0.01	0.00	0.02		
D	516.3	-0.054	-0.094	0.232	0.01	0.00	0.00		
D	510.0	-0.054	-0.094	0.232	0.01	0.00	0.00		
D	510.0	-0.059	-0.102	0.285	0.00	0.01	-0.01		
D	503.8	-0.059	-0.102	0.285	0.00	0.01	-0.01		
D	503.8	-0.062	-0.107	0.287	0.00	0.01	-0.03		
D	497.5	-0.062	-0.107	0.287	0.00	0.01	-0.03		
D	497.5	-0.065	-0.112	0.289	0.00	0.02	-0.05		
D	485.0	-0.064	-0.112	0.289	0.00	0.02	-0.05		
D	485.0	-0.063	-0.109	0.272	0.00	0.02	-0.05		
D	460.0	-0.062	-0.108	0.272	0.00	0.02	-0.05		
D	460.0	-0.058	-0.101	0.220	0.00	0.02	-0.05		
D	441.3	-0.058	-0.100	0.220	0.00	0.02	-0.05		
D	441.3	-0.061	-0.106	0.224	-0.01	0.02	-0.06		
D	435.0	-0.061	-0.106	0.224	-0.01	0.02	-0.06		
D	435.0	-0.062	-0.107	0.225	-0.02	0.02	-0.07		
D	422.5	-0.062	-0.107	0.225	-0.02	0.02	-0.07		
D	422.5	-0.063	-0.110	0.226	-0.02	0.02	-0.08		
D	416.3	-0.063	-0.110	0.226	-0.02	0.02	-0.08		
D	416.3	-0.064	-0.112	0.227	-0.02	0.02	-0.08		
D	385.0	-0.063	-0.110	0.227	-0.02	0.02	-0.08		
D	385.0	-0.064	-0.110	0.232	-0.02	0.02	-0.08		
D	372.5	-0.063	-0.110	0.232	-0.02	0.02	-0.08		
D	372.5	-0.065	-0.112	0.233	-0.02	0.02	-0.08		
D	366.3	-0.065	-0.112	0.233	-0.02	0.02	-0.08		
D	366.3	-0.066	-0.114	0.234	-0.02	0.02	-0.08		
D	360.0	-0.066	-0.114	0.234	-0.02	0.02	-0.08		
D	360.0	-0.069	-0.120	0.301	-0.02	0.02	-0.08		
D	335.0	-0.068	-0.118	0.301	-0.02	0.02	-0.08		
D	335.0	-0.070	-0.121	0.358	-0.02	0.02	-0.08		
D	322.5	-0.070	-0.122	0.358	-0.02	0.02	-0.08		
D	322.5	-0.071	-0.123	0.358	-0.02	0.02	-0.08		
D	310.0	-0.070	-0.122	0.358	-0.02	0.02	-0.08		
D	310.0	-0.068	-0.118	0.301	-0.02	0.02	-0.08		
D	285.0	-0.067	-0.116	0.301	-0.02	0.02	-0.08		
D	285.0	-0.063	-0.109	0.278	-0.02	0.02	-0.08		
D	278.8	-0.063	-0.109	0.278	-0.02	0.02	-0.08		
D	278.8	-0.059	-0.102	0.280	-0.02	0.02	-0.07		
D	272.5	-0.059	-0.102	0.280	-0.02	0.02	-0.07		
D	272.5	-0.059	-0.102	0.280	-0.02	0.02	-0.07		
D	266.3	-0.059	-0.102	0.280	-0.02	0.02	-0.07		
D	266.3	-0.059	-0.102	0.281	-0.02	0.02	-0.07		
D	260.0	-0.059	-0.102	0.281	-0.02	0.02	-0.07		
D	260.0	-0.066	-0.114	0.306	-0.02	0.02	-0.07		
D	247.5	-0.067	-0.115	0.313	-0.02	0.02	-0.07		
D	247.5	-0.070	-0.122	0.325	-0.02	0.02	-0.08		
D	222.5	-0.068	-0.119	0.325	-0.02	0.02	-0.08		
D	222.5	-0.069	-0.120	0.325	-0.02	0.03	-0.09		
D	210.0	-0.069	-0.120	0.325	-0.02	0.03	-0.09		
D	210.0	-0.070	-0.121	0.357	-0.02	0.03	-0.09		
D	197.5	-0.070	-0.121	0.357	-0.03	0.03	-0.09		
D	197.5	-0.070	-0.121	0.357	-0.03	0.03	-0.10		
D	185.0	-0.069	-0.120	0.357	-0.03	0.03	-0.09		
D	185.0	-0.070	-0.122	0.390	-0.03	0.03	-0.09		

D	160.0	-0.068	-0.118	0.390	-0.03	0.03	-0.09
D	160.0	-0.068	-0.119	0.428	-0.03	0.03	-0.09
D	153.8	-0.068	-0.119	0.428	-0.03	0.03	-0.09
D	153.8	-0.068	-0.119	0.429	-0.03	0.03	-0.09
D	147.5	-0.068	-0.119	0.429	-0.03	0.03	-0.09
D	147.5	-0.069	-0.119	0.430	-0.02	0.03	-0.09
D	141.3	-0.069	-0.119	0.430	-0.02	0.03	-0.09
D	141.3	-0.069	-0.120	0.431	-0.02	0.03	-0.08
D	135.0	-0.069	-0.120	0.431	-0.02	0.03	-0.08
D	135.0	-0.069	-0.120	0.394	-0.02	0.03	-0.07
D	110.0	-0.066	-0.115	0.394	-0.02	0.03	-0.07
D	110.0	-0.064	-0.111	0.371	-0.02	0.03	-0.07
D	91.3	-0.062	-0.108	0.371	-0.02	0.03	-0.06
D	91.3	-0.063	-0.108	0.372	-0.02	0.03	-0.07
D	53.8	-0.056	-0.096	0.372	-0.02	0.03	-0.06
D	53.8	-0.054	-0.093	0.372	-0.02	0.03	-0.06
D	47.5	-0.054	-0.093	0.372	-0.02	0.03	-0.06
D	47.5	-0.052	-0.089	0.372	-0.02	0.03	-0.06
D	41.3	-0.052	-0.089	0.372	-0.02	0.03	-0.06
D	41.3	-0.049	-0.085	0.372	-0.02	0.03	-0.06
D	35.0	-0.049	-0.085	0.372	-0.02	0.03	-0.06
D	35.0	-0.047	-0.082	0.372	-0.02	0.03	-0.05
D	10.0	-0.047	-0.082	0.372	-0.02	0.03	-0.05
D	10.0	-0.054	-0.093	0.521	-0.02	0.03	-0.05
D	5.0	-0.054	-0.093	0.521	-0.02	0.03	-0.05
D	5.0	-0.043	-0.075	0.463	-0.02	0.03	-0.05
D	0.0	-0.043	-0.075	0.463	-0.02	0.03	-0.05

GUY LOADING
==========

.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
60.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

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LOADING CONDITION I ==========

Iced tower 70 mph wind at azimuth 120 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & N	E	KIP/FT) DOWN	.MOMENTS(FT.K & N	E	FT.K/FT) TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	0.442	-0.766	1.781	0.89	0.00	0.38	0.0	0.00
C	570.0	0.437	-0.757	1.781	0.89	0.00	0.38	0.0	0.00
C	513.0	0.211	-0.366	0.243	0.71	0.11	0.75	0.0	0.00
C	501.0	0.079	-0.138	0.112	-0.97	0.56	-0.75	0.0	0.00
C	500.0	0.034	-0.059	0.018	0.09	0.00	0.29	0.0	0.00
C	440.0	0.076	-0.132	0.112	-0.97	0.56	-0.73	0.0	0.00
C	429.0	0.182	-0.315	0.174	0.91	0.91	2.70	0.0	0.00
C	420.0	0.099	-0.172	0.117	0.73	0.12	1.18	0.0	0.00
C	400.0	0.017	-0.030	0.020	0.11	0.00	0.16	0.0	0.00
C	388.0	0.089	-0.154	0.131	-1.14	0.66	-0.86	0.0	0.00
C	370.0	0.096	-0.166	0.117	0.73	0.12	1.14	0.0	0.00
C	325.0	0.139	-0.241	0.202	1.37	-0.79	0.90	0.0	0.00
C	289.0	0.079	-0.138	0.101	0.87	0.00	1.20	0.0	0.00
C	280.0	0.012	-0.031	0.051	0.30	0.00	0.21	0.0	0.00
C	280.0	0.089	-0.153	0.117	0.73	0.12	1.05	0.0	0.00
C	270.0	0.063	-0.109	0.113	0.49	-0.85	0.00	0.0	0.00
C	260.0	0.425	-0.736	0.570	0.91	1.57	1.60	0.0	0.00
C	250.0	0.131	-0.227	0.235	1.56	0.00	1.33	0.0	0.00
C	248.0	0.098	-0.169	0.119	1.27	0.00	1.85	0.0	0.00
C	221.0	0.058	-0.100	0.037	-0.22	-0.13	-0.80	0.0	0.00
C	200.0	0.083	-0.143	0.148	-0.60	1.03	0.00	0.0	0.00
C	175.0	0.094	-0.163	0.114	-1.00	-0.57	-1.99	0.0	0.00
C	150.0	0.046	-0.079	0.099	-0.40	0.69	0.00	0.0	0.00
C	137.0	0.014	-0.039	0.046	-0.14	-0.24	-0.20	240.0	0.00
C	134.0	0.049	-0.085	0.046	-0.14	0.24	0.00	120.0	0.00
C	131.0	0.026	-0.031	0.046	0.28	0.00	0.20	0.0	0.00
C	90.0	0.021	-0.036	0.018	0.09	0.00	0.18	0.0	0.00
D	553.8	0.049	-0.086	0.229	0.01	0.00	0.02		
D	547.5	0.049	-0.086	0.229	0.01	0.00	0.02		
D	547.5	0.051	-0.088	0.231	0.01	0.00	0.02		
D	516.3	0.050	-0.086	0.231	0.01	0.00	0.02		
D	516.3	0.052	-0.090	0.232	0.01	0.00	0.02		
D	510.0	0.052	-0.090	0.232	0.01	0.00	0.02		
D	510.0	0.056	-0.097	0.285	0.00	0.01	0.02		
D	503.8	0.056	-0.097	0.285	0.00	0.01	0.02		
D	503.8	0.059	-0.103	0.287	0.00	0.01	0.01		
D	497.5	0.059	-0.103	0.287	0.00	0.01	0.01		
D	497.5	0.062	-0.108	0.289	0.00	0.02	0.01		
D	485.0	0.062	-0.107	0.289	0.00	0.02	0.01		
D	485.0	0.061	-0.105	0.272	0.00	0.02	0.01		
D	460.0	0.060	-0.104	0.272	0.00	0.02	0.01		
D	460.0	0.056	-0.097	0.220	0.00	0.02	0.01		
D	441.3	0.056	-0.097	0.220	0.00	0.02	0.01		
D	441.3	0.059	-0.102	0.224	-0.01	0.02	-0.01		
D	435.0	0.059	-0.102	0.224	-0.01	0.02	-0.01		
D	435.0	0.060	-0.104	0.225	-0.02	0.02	-0.01		

D	422.5	0.060	-0.103	0.225	-0.02	0.02	-0.01
D	422.5	0.061	-0.106	0.226	-0.02	0.02	-0.02
D	416.3	0.061	-0.106	0.226	-0.02	0.02	-0.02
D	416.3	0.063	-0.108	0.227	-0.02	0.02	-0.03
D	385.0	0.061	-0.106	0.227	-0.02	0.02	-0.03
D	385.0	0.062	-0.107	0.232	-0.02	0.02	-0.03
D	372.5	0.061	-0.106	0.232	-0.02	0.02	-0.03
D	372.5	0.063	-0.109	0.233	-0.02	0.02	-0.02
D	366.3	0.063	-0.109	0.233	-0.02	0.02	-0.02
D	366.3	0.064	-0.111	0.234	-0.02	0.02	-0.01
D	360.0	0.064	-0.111	0.234	-0.02	0.02	-0.01
D	360.0	0.067	-0.116	0.301	-0.02	0.02	-0.01
D	335.0	0.066	-0.114	0.301	-0.02	0.02	-0.01
D	335.0	0.068	-0.117	0.358	-0.02	0.02	-0.01
D	328.8	0.068	-0.117	0.358	-0.02	0.02	-0.01
D	328.8	0.068	-0.118	0.358	-0.02	0.02	-0.01
D	322.5	0.068	-0.118	0.358	-0.02	0.02	-0.01
D	322.5	0.069	-0.119	0.358	-0.02	0.02	-0.02
D	310.0	0.068	-0.118	0.358	-0.02	0.02	-0.02
D	310.0	0.066	-0.114	0.301	-0.02	0.02	-0.02
D	285.0	0.065	-0.112	0.301	-0.02	0.02	-0.02
D	285.0	0.061	-0.105	0.278	-0.02	0.02	-0.02
D	278.8	0.061	-0.105	0.278	-0.02	0.02	-0.02
D	278.8	0.057	-0.099	0.280	-0.02	0.02	-0.02
D	272.5	0.057	-0.099	0.280	-0.02	0.02	-0.02
D	272.5	0.057	-0.099	0.280	-0.02	0.02	-0.02
D	266.3	0.057	-0.099	0.280	-0.02	0.02	-0.02
D	266.3	0.057	-0.100	0.281	-0.02	0.02	-0.02
D	260.0	0.057	-0.100	0.281	-0.02	0.02	-0.02
D	260.0	0.064	-0.111	0.306	-0.02	0.02	-0.02
D	253.8	0.064	-0.111	0.306	-0.02	0.02	-0.02
D	253.8	0.065	-0.112	0.313	-0.02	0.02	-0.02
D	247.5	0.065	-0.112	0.313	-0.02	0.02	-0.02
D	247.5	0.068	-0.119	0.325	-0.02	0.02	-0.01
D	222.5	0.067	-0.116	0.325	-0.02	0.02	-0.01
D	222.5	0.068	-0.117	0.325	-0.02	0.03	-0.01
D	210.0	0.068	-0.117	0.325	-0.02	0.03	-0.01
D	210.0	0.068	-0.118	0.357	-0.02	0.03	-0.01
D	203.8	0.068	-0.118	0.357	-0.02	0.03	-0.01
D	203.8	0.068	-0.118	0.357	-0.03	0.03	-0.02
D	197.5	0.068	-0.118	0.357	-0.03	0.03	-0.02
D	197.5	0.068	-0.119	0.357	-0.03	0.03	-0.02
D	185.0	0.068	-0.117	0.357	-0.03	0.03	-0.02
D	185.0	0.069	-0.119	0.390	-0.03	0.03	-0.02
D	160.0	0.067	-0.115	0.390	-0.03	0.03	-0.02
D	160.0	0.067	-0.116	0.428	-0.03	0.03	-0.02
D	153.8	0.067	-0.116	0.428	-0.03	0.03	-0.02
D	153.8	0.067	-0.116	0.429	-0.03	0.03	-0.01
D	147.5	0.067	-0.116	0.429	-0.03	0.03	-0.01
D	147.5	0.067	-0.117	0.430	-0.02	0.03	-0.01
D	141.3	0.067	-0.117	0.430	-0.02	0.03	-0.01
D	141.3	0.068	-0.118	0.431	-0.02	0.03	-0.01
D	135.0	0.068	-0.118	0.431	-0.02	0.03	-0.01
D	135.0	0.069	-0.120	0.394	-0.02	0.03	-0.01
D	110.0	0.067	-0.115	0.394	-0.02	0.03	-0.01
D	110.0	0.065	-0.112	0.371	-0.02	0.03	-0.01
D	91.3	0.062	-0.108	0.371	-0.02	0.03	-0.01
D	91.3	0.063	-0.108	0.372	-0.02	0.03	-0.01
D	85.0	0.063	-0.108	0.372	-0.02	0.03	-0.01
D	85.0	0.062	-0.107	0.372	-0.02	0.03	-0.02

D	53.8	0.056	-0.096	0.372	-0.02	0.03	-0.01
D	53.8	0.054	-0.093	0.372	-0.02	0.03	-0.01
D	47.5	0.054	-0.093	0.372	-0.02	0.03	-0.01
D	47.5	0.052	-0.090	0.372	-0.02	0.03	-0.01
D	41.3	0.052	-0.090	0.372	-0.02	0.03	-0.01
D	41.3	0.049	-0.086	0.372	-0.02	0.03	-0.01
D	35.0	0.049	-0.086	0.372	-0.02	0.03	-0.01
D	35.0	0.047	-0.082	0.372	-0.02	0.03	-0.01
D	10.0	0.047	-0.082	0.372	-0.02	0.03	-0.01
D	10.0	0.052	-0.090	0.521	-0.02	0.03	-0.01
D	5.0	0.052	-0.090	0.521	-0.02	0.03	-0.01
D	5.0	0.043	-0.075	0.463	-0.02	0.03	-0.01
D	0.0	0.043	-0.075	0.463	-0.02	0.03	-0.01

GUY LOADING
==========

.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
120.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION J ==========

Iced tower 70 mph wind at azimuth 180 deg

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

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	0.885	0.000	1.781	0.89	0.00	0.00	0.0	0.00

C	570.0	0.874	0.000	1.781	0.89	0.00	0.00	0.0	0.00
C	513.0	0.512	0.000	0.243	0.71	0.11	0.44	0.0	0.00
C	501.0	0.159	0.000	0.112	-0.97	0.56	0.75	0.0	0.00
C	500.0	0.068	0.000	0.018	0.09	0.00	0.00	0.0	0.00
C	440.0	0.153	0.000	0.112	-0.97	0.56	0.73	0.0	0.00
C	429.0	0.290	0.000	0.174	0.91	0.91	1.52	0.0	0.00
C	420.0	0.164	0.000	0.117	0.73	0.12	0.33	0.0	0.00
C	400.0	0.000	0.000	0.020	0.11	0.00	0.00	0.0	0.00
C	388.0	0.178	0.000	0.131	-1.14	0.66	0.86	0.0	0.00
C	370.0	0.158	0.000	0.117	0.73	0.12	0.31	0.0	0.00
C	325.0	0.278	0.000	0.202	1.37	-0.79	-0.90	0.0	0.00
C	289.0	0.110	0.000	0.101	0.87	0.00	0.00	0.0	0.00
C	280.0	0.053	0.000	0.051	0.30	0.00	0.00	0.0	0.00
C	280.0	0.146	0.000	0.117	0.73	0.12	0.29	0.0	0.00
C	270.0	0.174	0.000	0.113	0.49	-0.85	-1.32	0.0	0.00
C	260.0	1.337	0.000	0.570	0.91	1.57	3.45	0.0	0.00
C	250.0	0.479	0.000	0.235	1.56	0.00	0.00	0.0	0.00
C	248.0	0.106	0.000	0.119	1.27	0.00	0.00	0.0	0.00
C	221.0	0.115	0.000	0.037	-0.22	-0.13	-0.40	0.0	0.00
C	200.0	0.206	0.000	0.148	-0.60	1.03	1.45	0.0	0.00
C	175.0	0.119	0.000	0.114	-1.00	-0.57	-0.57	0.0	0.00
C	150.0	0.129	0.000	0.099	-0.40	0.69	0.90	0.0	0.00
C	137.0	0.070	0.083	0.046	-0.14	-0.24	-0.10	240.0	0.00
C	134.0	0.069	-0.083	0.046	-0.14	0.24	0.10	120.0	0.00
C	131.0	0.064	0.000	0.046	0.28	0.00	0.00	0.0	0.00
C	90.0	0.041	0.000	0.018	0.09	0.00	0.00	0.0	0.00

D	553.8	0.103	0.000	0.229	0.01	0.00	0.00
D	547.5	0.103	0.000	0.229	0.01	0.00	0.00
D	547.5	0.105	0.000	0.231	0.01	0.00	0.00
D	516.3	0.104	0.000	0.231	0.01	0.00	0.00
D	516.3	0.107	0.000	0.232	0.01	0.00	0.01
D	510.0	0.107	0.000	0.232	0.01	0.00	0.01
D	510.0	0.116	0.000	0.285	0.00	0.01	0.03
D	503.8	0.116	0.000	0.285	0.00	0.01	0.03
D	503.8	0.122	0.000	0.287	0.00	0.01	0.05
D	497.5	0.122	0.000	0.287	0.00	0.01	0.05
D	497.5	0.128	0.000	0.289	0.00	0.02	0.06
D	485.0	0.127	0.000	0.289	0.00	0.02	0.06
D	485.0	0.125	0.000	0.272	0.00	0.02	0.06
D	460.0	0.123	0.000	0.272	0.00	0.02	0.06
D	460.0	0.116	0.000	0.220	0.00	0.02	0.06
D	441.3	0.115	0.000	0.220	0.00	0.02	0.06
D	441.3	0.121	0.000	0.224	-0.01	0.02	0.06
D	435.0	0.121	0.000	0.224	-0.01	0.02	0.06
D	435.0	0.123	0.000	0.225	-0.02	0.02	0.06
D	422.5	0.122	0.000	0.225	-0.02	0.02	0.06
D	422.5	0.126	0.000	0.226	-0.02	0.02	0.06
D	416.3	0.126	0.000	0.226	-0.02	0.02	0.06
D	416.3	0.128	0.000	0.227	-0.02	0.02	0.06
D	385.0	0.125	0.000	0.227	-0.02	0.02	0.05
D	385.0	0.126	0.000	0.232	-0.02	0.02	0.05
D	372.5	0.125	0.000	0.232	-0.02	0.02	0.05
D	372.5	0.129	0.000	0.233	-0.02	0.02	0.06
D	366.3	0.129	0.000	0.233	-0.02	0.02	0.06
D	366.3	0.131	0.000	0.234	-0.02	0.02	0.07
D	360.0	0.131	0.000	0.234	-0.02	0.02	0.07
D	360.0	0.137	0.000	0.301	-0.02	0.02	0.07
D	335.0	0.135	0.000	0.301	-0.02	0.02	0.07
D	335.0	0.139	0.000	0.358	-0.02	0.02	0.07

D	322.5	0.139	0.000	0.358	-0.02	0.02	0.07
D	322.5	0.140	0.000	0.358	-0.02	0.02	0.06
D	310.0	0.140	0.000	0.358	-0.02	0.02	0.06
D	310.0	0.135	0.000	0.301	-0.02	0.02	0.06
D	285.0	0.132	0.000	0.301	-0.02	0.02	0.06
D	285.0	0.124	0.000	0.278	-0.02	0.02	0.06
D	278.8	0.124	0.000	0.278	-0.02	0.02	0.06
D	278.8	0.116	0.000	0.280	-0.02	0.02	0.05
D	272.5	0.116	0.000	0.280	-0.02	0.02	0.05
D	272.5	0.117	0.000	0.280	-0.02	0.02	0.05
D	266.3	0.117	0.000	0.280	-0.02	0.02	0.05
D	266.3	0.117	0.000	0.281	-0.02	0.02	0.05
D	260.0	0.117	0.000	0.281	-0.02	0.02	0.05
D	260.0	0.131	0.000	0.306	-0.02	0.02	0.05
D	247.5	0.132	0.000	0.313	-0.02	0.02	0.05
D	247.5	0.139	0.000	0.325	-0.02	0.02	0.07
D	222.5	0.136	0.000	0.325	-0.02	0.02	0.07
D	222.5	0.138	0.000	0.325	-0.02	0.03	0.08
D	216.3	0.138	0.000	0.325	-0.02	0.03	0.08
D	216.3	0.138	0.000	0.325	-0.02	0.03	0.08
D	210.0	0.138	0.000	0.325	-0.02	0.03	0.08
D	210.0	0.139	0.000	0.357	-0.02	0.03	0.08
D	197.5	0.139	0.000	0.357	-0.03	0.03	0.08
D	197.5	0.139	0.000	0.357	-0.03	0.03	0.08
D	185.0	0.138	0.000	0.357	-0.03	0.03	0.08
D	185.0	0.140	0.000	0.390	-0.03	0.03	0.07
D	160.0	0.135	0.000	0.390	-0.03	0.03	0.07
D	160.0	0.136	0.000	0.428	-0.03	0.03	0.07
D	153.8	0.136	0.000	0.428	-0.03	0.03	0.07
D	153.8	0.136	0.000	0.429	-0.03	0.03	0.07
D	147.5	0.136	0.000	0.429	-0.03	0.03	0.07
D	147.5	0.137	0.000	0.430	-0.02	0.03	0.08
D	141.3	0.137	0.000	0.430	-0.02	0.03	0.08
D	141.3	0.137	0.000	0.431	-0.02	0.03	0.07
D	135.0	0.137	0.000	0.431	-0.02	0.03	0.07
D	135.0	0.138	0.000	0.394	-0.02	0.03	0.06
D	110.0	0.132	0.000	0.394	-0.02	0.03	0.06
D	110.0	0.128	0.000	0.371	-0.02	0.03	0.06
D	91.3	0.123	0.000	0.371	-0.02	0.03	0.06
D	91.3	0.124	0.000	0.372	-0.02	0.03	0.06
D	53.8	0.110	0.000	0.372	-0.02	0.03	0.05
D	53.8	0.106	0.000	0.372	-0.02	0.03	0.05
D	47.5	0.106	0.000	0.372	-0.02	0.03	0.05
D	47.5	0.102	0.000	0.372	-0.02	0.03	0.05
D	41.3	0.102	0.000	0.372	-0.02	0.03	0.05
D	41.3	0.098	0.000	0.372	-0.02	0.03	0.04
D	35.0	0.098	0.000	0.372	-0.02	0.03	0.04
D	35.0	0.094	0.000	0.372	-0.02	0.03	0.04
D	10.0	0.094	0.000	0.372	-0.02	0.03	0.04
D	10.0	0.107	0.000	0.521	-0.02	0.03	0.04
D	5.0	0.107	0.000	0.521	-0.02	0.03	0.04
D	5.0	0.086	0.000	0.463	-0.02	0.03	0.04
D	0.0	0.086	0.000	0.463	-0.02	0.03	0.04

GUY LOADING
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.. WIND LOADING ...			TEMP	.ICE LOAD..		CONV	PROFILES.		.LOAD FACTORS.		
AZI	SPEED	REF PRESS	CHANGE	RAD	DENS	TOL	CAB	WIND	WIND	DEAD	ICE

DEG	MPH	PSF	DEG	IN	PCF						
180.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING..				.....MAXIMUMS.....			
INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

==========

LOADING CONDITION K ==========

Iced tower 70 mph wind at azimuth 240 deg

MAST LOADING
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LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS(FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	0.442	0.766	1.781	0.89	0.00	-0.38	0.0	0.00
C	570.0	0.437	0.757	1.781	0.89	0.00	-0.38	0.0	0.00
C	513.0	0.156	0.270	0.243	0.71	0.11	-0.60	0.0	0.00
C	501.0	0.124	0.215	0.112	-0.97	0.56	2.57	0.0	0.00
C	500.0	0.034	0.059	0.018	0.09	0.00	-0.29	0.0	0.00
C	440.0	0.120	0.207	0.112	-0.97	0.56	2.48	0.0	0.00
C	429.0	0.109	0.188	0.174	0.91	0.91	-0.39	0.0	0.00
C	420.0	0.099	0.172	0.117	0.73	0.12	-1.00	0.0	0.00
C	400.0	0.017	0.030	0.020	0.11	0.00	-0.16	0.0	0.00
C	388.0	0.130	0.226	0.131	-1.14	0.66	2.73	0.0	0.00
C	370.0	0.096	0.166	0.117	0.73	0.12	-0.96	0.0	0.00
C	325.0	0.164	0.285	0.202	1.37	-0.79	-2.58	0.0	0.00
C	289.0	0.079	0.138	0.101	0.87	0.00	-1.20	0.0	0.00
C	280.0	0.012	0.031	0.051	0.30	0.00	-0.21	0.0	0.00
C	280.0	0.089	0.153	0.117	0.73	0.12	-0.89	0.0	0.00
C	270.0	0.087	0.151	0.113	0.49	-0.85	-1.32	0.0	0.00
C	260.0	0.547	0.947	0.570	0.91	1.57	-0.84	0.0	0.00
C	250.0	0.131	0.227	0.235	1.56	0.00	-1.33	0.0	0.00
C	248.0	0.098	0.169	0.119	1.27	0.00	-1.85	0.0	0.00
C	221.0	0.058	0.100	0.037	-0.22	-0.13	0.40	0.0	0.00
C	200.0	0.103	0.178	0.148	-0.60	1.03	1.45	0.0	0.00

C	175.0	0.059	0.103	0.114	-1.00	-0.57	0.57	0.0	0.00
C	150.0	0.064	0.112	0.099	-0.40	0.69	0.90	0.0	0.00
C	137.0	0.049	0.085	0.046	-0.14	-0.24	0.00	240.0	0.00
C	134.0	0.013	0.038	0.046	-0.14	0.24	0.20	120.0	0.00
C	131.0	0.026	0.031	0.046	0.28	0.00	-0.20	0.0	0.00
C	90.0	0.021	0.036	0.018	0.09	0.00	-0.18	0.0	0.00
D	553.8	0.050	0.086	0.229	0.01	0.00	-0.02		
D	547.5	0.050	0.086	0.229	0.01	0.00	-0.02		
D	547.5	0.051	0.089	0.231	0.01	0.00	-0.02		
D	516.3	0.051	0.087	0.231	0.01	0.00	-0.02		
D	516.3	0.052	0.091	0.232	0.01	0.00	0.00		
D	510.0	0.052	0.091	0.232	0.01	0.00	0.00		
D	510.0	0.057	0.099	0.285	0.00	0.01	0.01		
D	503.8	0.057	0.099	0.285	0.00	0.01	0.01		
D	503.8	0.060	0.104	0.287	0.00	0.01	0.03		
D	497.5	0.060	0.104	0.287	0.00	0.01	0.03		
D	497.5	0.063	0.109	0.289	0.00	0.02	0.05		
D	485.0	0.063	0.108	0.289	0.00	0.02	0.05		
D	485.0	0.061	0.106	0.272	0.00	0.02	0.05		
D	460.0	0.061	0.105	0.272	0.00	0.02	0.05		
D	460.0	0.057	0.098	0.220	0.00	0.02	0.05		
D	441.3	0.056	0.098	0.220	0.00	0.02	0.05		
D	441.3	0.060	0.104	0.224	-0.01	0.02	0.06		
D	435.0	0.060	0.104	0.224	-0.01	0.02	0.06		
D	435.0	0.060	0.105	0.225	-0.02	0.02	0.07		
D	422.5	0.060	0.104	0.225	-0.02	0.02	0.07		
D	422.5	0.062	0.107	0.226	-0.02	0.02	0.08		
D	416.3	0.062	0.107	0.226	-0.02	0.02	0.08		
D	416.3	0.063	0.109	0.227	-0.02	0.02	0.08		
D	385.0	0.062	0.107	0.227	-0.02	0.02	0.08		
D	385.0	0.062	0.108	0.232	-0.02	0.02	0.08		
D	372.5	0.062	0.107	0.232	-0.02	0.02	0.08		
D	372.5	0.064	0.110	0.233	-0.02	0.02	0.08		
D	366.3	0.064	0.110	0.233	-0.02	0.02	0.08		
D	366.3	0.065	0.112	0.234	-0.02	0.02	0.08		
D	360.0	0.065	0.112	0.234	-0.02	0.02	0.08		
D	360.0	0.068	0.117	0.301	-0.02	0.02	0.08		
D	335.0	0.067	0.115	0.301	-0.02	0.02	0.08		
D	335.0	0.068	0.118	0.358	-0.02	0.02	0.08		
D	322.5	0.069	0.119	0.358	-0.02	0.02	0.08		
D	322.5	0.069	0.120	0.358	-0.02	0.02	0.08		
D	310.0	0.069	0.119	0.358	-0.02	0.02	0.08		
D	310.0	0.066	0.115	0.301	-0.02	0.02	0.08		
D	285.0	0.065	0.113	0.301	-0.02	0.02	0.08		
D	285.0	0.062	0.106	0.278	-0.02	0.02	0.08		
D	278.8	0.062	0.106	0.278	-0.02	0.02	0.08		
D	278.8	0.058	0.100	0.280	-0.02	0.02	0.07		
D	272.5	0.058	0.100	0.280	-0.02	0.02	0.07		
D	272.5	0.058	0.100	0.280	-0.02	0.02	0.07		
D	266.3	0.058	0.100	0.280	-0.02	0.02	0.07		
D	266.3	0.058	0.100	0.281	-0.02	0.02	0.07		
D	260.0	0.058	0.100	0.281	-0.02	0.02	0.07		
D	260.0	0.065	0.112	0.306	-0.02	0.02	0.07		
D	247.5	0.065	0.113	0.313	-0.02	0.02	0.07		
D	247.5	0.069	0.120	0.325	-0.02	0.02	0.08		
D	222.5	0.068	0.117	0.325	-0.02	0.02	0.08		
D	222.5	0.068	0.118	0.325	-0.02	0.03	0.09		
D	210.0	0.068	0.118	0.325	-0.02	0.03	0.09		
D	210.0	0.069	0.119	0.357	-0.02	0.03	0.09		

D	197.5	0.069	0.119	0.357	-0.03	0.03	0.09
D	197.5	0.069	0.119	0.357	-0.03	0.03	0.10
D	185.0	0.068	0.118	0.357	-0.03	0.03	0.09
D	185.0	0.069	0.120	0.390	-0.03	0.03	0.09
D	160.0	0.067	0.116	0.390	-0.03	0.03	0.09
D	160.0	0.067	0.117	0.428	-0.03	0.03	0.09
D	153.8	0.067	0.117	0.428	-0.03	0.03	0.09
D	153.8	0.067	0.117	0.429	-0.03	0.03	0.09
D	147.5	0.067	0.117	0.429	-0.03	0.03	0.09
D	147.5	0.068	0.117	0.430	-0.02	0.03	0.09
D	141.3	0.068	0.117	0.430	-0.02	0.03	0.09
D	141.3	0.068	0.118	0.431	-0.02	0.03	0.08
D	135.0	0.068	0.118	0.431	-0.02	0.03	0.08
D	135.0	0.068	0.118	0.394	-0.02	0.03	0.07
D	110.0	0.065	0.113	0.394	-0.02	0.03	0.07
D	110.0	0.064	0.110	0.371	-0.02	0.03	0.07
D	91.3	0.061	0.106	0.371	-0.02	0.03	0.06
D	91.3	0.062	0.107	0.372	-0.02	0.03	0.07
D	53.8	0.055	0.095	0.372	-0.02	0.03	0.06
D	53.8	0.053	0.091	0.372	-0.02	0.03	0.06
D	47.5	0.053	0.091	0.372	-0.02	0.03	0.06
D	47.5	0.051	0.088	0.372	-0.02	0.03	0.06
D	41.3	0.051	0.088	0.372	-0.02	0.03	0.06
D	41.3	0.049	0.084	0.372	-0.02	0.03	0.06
D	35.0	0.049	0.084	0.372	-0.02	0.03	0.06
D	35.0	0.047	0.081	0.372	-0.02	0.03	0.05
D	10.0	0.047	0.081	0.372	-0.02	0.03	0.05
D	10.0	0.051	0.089	0.521	-0.02	0.03	0.05
D	5.0	0.051	0.089	0.521	-0.02	0.03	0.05
D	5.0	0.043	0.075	0.463	-0.02	0.03	0.05
D	0.0	0.043	0.075	0.463	-0.02	0.03	0.05

GUY LOADING
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.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
240.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

LOADING CONDITION L

Iced tower 70 mph wind at azimuth 300 deg

MAST LOADING

LOAD TYPE	ELEV FT	.FORCES (KIP & KIP/FT) N	E	DOWN	.MOMENTS (FT.K & FT.K/FT) N	E	TORSION	ANT-ORIENT AZI DEG	VERT DEG
C	595.0	-0.442	0.766	1.781	0.89	0.00	-0.38	0.0	0.00
C	570.0	-0.437	0.757	1.781	0.89	0.00	-0.38	0.0	0.00
C	513.0	-0.211	0.366	0.243	0.71	0.11	-0.75	0.0	0.00
C	501.0	-0.079	0.138	0.112	-0.97	0.56	0.75	0.0	0.00
C	500.0	-0.034	0.059	0.018	0.09	0.00	-0.29	0.0	0.00
C	440.0	-0.076	0.132	0.112	-0.97	0.56	0.73	0.0	0.00
C	429.0	-0.182	0.315	0.174	0.91	0.91	-2.70	0.0	0.00
C	420.0	-0.099	0.172	0.117	0.73	0.12	-1.18	0.0	0.00
C	400.0	-0.017	0.030	0.020	0.11	0.00	-0.16	0.0	0.00
C	388.0	-0.089	0.154	0.131	-1.14	0.66	0.86	0.0	0.00
C	370.0	-0.096	0.166	0.117	0.73	0.12	-1.14	0.0	0.00
C	325.0	-0.139	0.241	0.202	1.37	-0.79	-0.90	0.0	0.00
C	289.0	-0.079	0.138	0.101	0.87	0.00	-1.20	0.0	0.00
C	280.0	-0.036	0.042	0.051	0.30	0.00	-0.25	0.0	0.00
C	280.0	-0.089	0.153	0.117	0.73	0.12	-1.05	0.0	0.00
C	270.0	-0.063	0.109	0.113	0.49	-0.85	0.00	0.0	0.00
C	260.0	-0.425	0.736	0.570	0.91	1.57	-1.60	0.0	0.00
C	250.0	-0.131	0.227	0.235	1.56	0.00	-1.33	0.0	0.00
C	248.0	-0.098	0.169	0.119	1.27	0.00	-1.85	0.0	0.00
C	221.0	-0.058	0.100	0.037	-0.22	-0.13	0.80	0.0	0.00
C	200.0	-0.083	0.143	0.148	-0.60	1.03	0.00	0.0	0.00
C	175.0	-0.094	0.163	0.114	-1.00	-0.57	1.99	0.0	0.00
C	150.0	-0.046	0.079	0.099	-0.40	0.69	0.00	0.0	0.00
C	137.0	0.037	0.102	0.046	-0.14	-0.24	0.10	240.0	0.00
C	134.0	-0.032	0.055	0.046	-0.14	0.24	0.00	120.0	0.00
C	131.0	-0.106	0.018	0.046	0.28	0.00	-0.10	0.0	0.00
C	90.0	-0.021	0.036	0.018	0.09	0.00	-0.18	0.0	0.00
D	553.8	-0.051	0.089	0.229	0.01	0.00	-0.02		
D	547.5	-0.051	0.089	0.229	0.01	0.00	-0.02		
D	547.5	-0.052	0.091	0.231	0.01	0.00	-0.02		
D	516.3	-0.052	0.090	0.231	0.01	0.00	-0.02		
D	516.3	-0.054	0.093	0.232	0.01	0.00	-0.02		
D	510.0	-0.054	0.093	0.232	0.01	0.00	-0.02		
D	510.0	-0.058	0.101	0.285	0.00	0.01	-0.02		
D	503.8	-0.058	0.101	0.285	0.00	0.01	-0.02		
D	503.8	-0.061	0.106	0.287	0.00	0.01	-0.01		
D	497.5	-0.061	0.106	0.287	0.00	0.01	-0.01		
D	497.5	-0.064	0.111	0.289	0.00	0.02	-0.01		
D	485.0	-0.064	0.110	0.289	0.00	0.02	-0.01		
D	485.0	-0.063	0.108	0.272	0.00	0.02	-0.01		
D	460.0	-0.062	0.107	0.272	0.00	0.02	-0.01		
D	460.0	-0.058	0.100	0.220	0.00	0.02	-0.01		

D	441.3	-0.057	0.099	0.220	0.00	0.02	-0.01
D	441.3	-0.061	0.105	0.224	-0.01	0.02	0.01
D	435.0	-0.061	0.105	0.224	-0.01	0.02	0.01
D	435.0	-0.061	0.106	0.225	-0.02	0.02	0.01
D	422.5	-0.061	0.106	0.225	-0.02	0.02	0.01
D	422.5	-0.063	0.109	0.226	-0.02	0.02	0.02
D	416.3	-0.063	0.109	0.226	-0.02	0.02	0.02
D	416.3	-0.064	0.111	0.227	-0.02	0.02	0.03
D	385.0	-0.063	0.109	0.227	-0.02	0.02	0.03
D	385.0	-0.063	0.109	0.232	-0.02	0.02	0.03
D	372.5	-0.063	0.109	0.232	-0.02	0.02	0.03
D	372.5	-0.064	0.112	0.233	-0.02	0.02	0.02
D	366.3	-0.064	0.112	0.233	-0.02	0.02	0.02
D	366.3	-0.065	0.113	0.234	-0.02	0.02	0.01
D	360.0	-0.065	0.113	0.234	-0.02	0.02	0.01
D	360.0	-0.069	0.119	0.301	-0.02	0.02	0.01
D	335.0	-0.068	0.117	0.301	-0.02	0.02	0.01
D	335.0	-0.069	0.120	0.358	-0.02	0.02	0.01
D	328.8	-0.069	0.120	0.358	-0.02	0.02	0.01
D	328.8	-0.070	0.121	0.358	-0.02	0.02	0.01
D	322.5	-0.070	0.121	0.358	-0.02	0.02	0.01
D	322.5	-0.070	0.122	0.358	-0.02	0.02	0.02
D	310.0	-0.070	0.121	0.358	-0.02	0.02	0.02
D	310.0	-0.067	0.117	0.301	-0.02	0.02	0.02
D	285.0	-0.066	0.115	0.301	-0.02	0.02	0.02
D	285.0	-0.062	0.108	0.278	-0.02	0.02	0.02
D	278.8	-0.062	0.108	0.278	-0.02	0.02	0.02
D	278.8	-0.058	0.101	0.280	-0.02	0.02	0.02
D	272.5	-0.058	0.101	0.280	-0.02	0.02	0.02
D	272.5	-0.059	0.101	0.280	-0.02	0.02	0.02
D	266.3	-0.059	0.101	0.280	-0.02	0.02	0.02
D	266.3	-0.059	0.102	0.281	-0.02	0.02	0.02
D	260.0	-0.059	0.102	0.281	-0.02	0.02	0.02
D	260.0	-0.065	0.113	0.306	-0.02	0.02	0.02
D	253.8	-0.065	0.113	0.306	-0.02	0.02	0.02
D	253.8	-0.066	0.114	0.313	-0.02	0.02	0.02
D	247.5	-0.066	0.114	0.313	-0.02	0.02	0.02
D	247.5	-0.070	0.121	0.325	-0.02	0.02	0.01
D	222.5	-0.068	0.118	0.325	-0.02	0.02	0.01
D	222.5	-0.069	0.119	0.325	-0.02	0.03	0.01
D	210.0	-0.069	0.119	0.325	-0.02	0.03	0.01
D	210.0	-0.069	0.120	0.357	-0.02	0.03	0.01
D	203.8	-0.069	0.120	0.357	-0.02	0.03	0.01
D	203.8	-0.069	0.120	0.357	-0.03	0.03	0.02
D	197.5	-0.069	0.120	0.357	-0.03	0.03	0.02
D	197.5	-0.069	0.120	0.357	-0.03	0.03	0.02
D	185.0	-0.069	0.119	0.357	-0.03	0.03	0.02
D	185.0	-0.070	0.121	0.390	-0.03	0.03	0.02
D	160.0	-0.068	0.117	0.390	-0.03	0.03	0.02
D	160.0	-0.068	0.118	0.428	-0.03	0.03	0.02
D	153.8	-0.068	0.118	0.428	-0.03	0.03	0.02
D	153.8	-0.068	0.118	0.429	-0.03	0.03	0.01
D	147.5	-0.068	0.118	0.429	-0.03	0.03	0.01
D	147.5	-0.068	0.119	0.430	-0.02	0.03	0.01
D	141.3	-0.068	0.119	0.430	-0.02	0.03	0.01
D	141.3	-0.069	0.120	0.431	-0.02	0.03	0.01
D	135.0	-0.069	0.120	0.431	-0.02	0.03	0.01
D	135.0	-0.071	0.122	0.394	-0.02	0.03	0.01
D	110.0	-0.068	0.117	0.394	-0.02	0.03	0.01
D	110.0	-0.065	0.113	0.371	-0.02	0.03	0.01

D	91.3	-0.063	0.109	0.371	-0.02	0.03	0.01
D	91.3	-0.063	0.110	0.372	-0.02	0.03	0.01
D	85.0	-0.063	0.110	0.372	-0.02	0.03	0.01
D	85.0	-0.063	0.108	0.372	-0.02	0.03	0.02
D	53.8	-0.056	0.098	0.372	-0.02	0.03	0.01
D	53.8	-0.054	0.094	0.372	-0.02	0.03	0.01
D	47.5	-0.054	0.094	0.372	-0.02	0.03	0.01
D	47.5	-0.052	0.091	0.372	-0.02	0.03	0.01
D	41.3	-0.052	0.091	0.372	-0.02	0.03	0.01
D	41.3	-0.050	0.087	0.372	-0.02	0.03	0.01
D	35.0	-0.050	0.087	0.372	-0.02	0.03	0.01
D	35.0	-0.048	0.083	0.372	-0.02	0.03	0.01
D	10.0	-0.048	0.083	0.372	-0.02	0.03	0.01
D	10.0	-0.054	0.094	0.521	-0.02	0.03	0.01
D	5.0	-0.054	0.094	0.521	-0.02	0.03	0.01
D	5.0	-0.043	0.075	0.463	-0.02	0.03	0.01
D	0.0	-0.043	0.075	0.463	-0.02	0.03	0.01

GUY LOADING
==========

.. WIND LOADING ... AZI	SPEED	REF PRESS	TEMP CHANGE	.ICE LOAD.. RAD	DENS	CONV TOL	PROFILES. CAB	WIND	.LOAD FACTORS. WIND	DEAD	ICE
DEG	MPH	PSF	DEG	IN	PCF						
300.0	70.0	0.00	-10.00	0.50	56.00	0.0100	2	1	1.00	1.00	1.00

CABLE PROFILE: 1 - CATENARY 2 - PARABOLIC

WIND PROFILE: 1 - EIA 222 F 2 - Kz = 1 ; Gh = 1
3 - EIA 222 C 4 - Special Factors
5 - Site Specific Wind Formula

SUPPRESS PRINTING
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...FOR THIS LOADING.. INPUT LOADS	DISPL	INTRNL FORCES	MEMBER LOADS	.....MAXIMUMS..... ALL	DISPL	INTRNL FORCES	MEMBER LOADS
no	yes	yes	yes	no	no	no	no

EXISTING 555' G8 STAINLESS GUYED TOWER AVON, CT

LOADING CONDITION A ========== 3 iterations =======

Bare tower 80 mph wind at azimuth 0 deg

LOADING CONDITION B ========== 5 iterations =======

Bare tower 80 mph wind at azimuth 60 deg

LOADING CONDITION C ========== 4 iterations =======

Bare tower 80 mph wind at azimuth 120 deg

LOADING CONDITION D ========== 4 iterations =======

Bare tower 80 mph wind at azimuth 180 deg

LOADING CONDITION E ========== 4 iterations =======

Bare tower 80 mph wind at azimuth 240 deg

LOADING CONDITION F ========== 5 iterations =======

Bare tower 80 mph wind at azimuth 300 deg

LOADING CONDITION G ========== 3 iterations =======

Iced tower 70 mph wind at azimuth 0 deg

LOADING CONDITION H ========== 4 iterations =======

Iced tower 70 mph wind at azimuth 60 deg

LOADING CONDITION I ========== 4 iterations =======

Iced tower 70 mph wind at azimuth 120 deg

LOADING CONDITION J ========== 4 iterations =======

Iced tower 70 mph wind at azimuth 180 deg

LOADING CONDITION K ========== 4 iterations =======

Iced tower 70 mph wind at azimuth 240 deg

LOADING CONDITION L ========== 4 iterations =======

Iced tower 70 mph wind at azimuth 300 deg

EXISTING 555' G8 STAINLESS GUYED TOWER AVON, CT

MAXIMUM LEG LOADS AND FACE SHEARS (KIP - stress in KSI)

MAST ELEV FT	MAX LEG LOADS AXIAL	BENDING TENS	BENDING COMP	TOTAL TENS	TOTAL COMP	MAX FACE SHEARS TORSN	BEAM	TOTAL
553.75								
	1.2G	8.9C	9.0D	7.8C	10.1D	-0.1B	1.2A	1.3B
	1.7G	11.0E	11.2D	9.6E	12.7D	0.1C	-1.6B	1.7B
547.50								
	1.7G	11.0E	11.2D	9.6E	12.7D	0.1C	1.6B	1.7F
	3.6G	25.3E	25.7D	22.2E	28.8D	0.0C	-3.1B	3.2B
522.88								
	3.6G	25.3E	25.7D	22.2E	28.8D	0.0C	3.1B	3.2B
	4.1G	30.6E	31.3D	27.1E	34.8D	0.0C	3.6B	3.6B
516.25								
	4.1G	30.6E	31.3D	27.1E	34.8D	0.0A	-3.6B	3.6D
	4.6G	36.5E	37.4D	32.5E	41.3D	-0.1C	-4.2D	4.3D
510.00								
	4.6G	36.5E	37.4D	32.5E	41.3D	0.1A	4.2D	4.3D

	5.6G	47.3E	48.8D	42.6E	53.6D	-0.4E	5.0D	5.3B
500.00								
	5.6G	47.3E	48.8D	42.6E	53.6D	-0.3E	-5.1D	5.4B
	6.4G	57.6E	59.5D	52.2E	64.9D	-0.4E	5.6D	6.0B
492.00								
	51.4K	28.2A	29.0D	0.0A	74.1D	-0.6G	5.7H	6.2J
	52.1K	19.5A	19.6D	0.0A	65.2D	-0.6G	5.2H	5.7J
485.00								
	52.1K	19.5A	19.6D	0.0A	65.2D	-0.5G	5.2H	5.6J
	54.3K	14.5H	12.4K	0.0A	66.7K	-0.4G	3.4B	3.7J
460.00								
	54.3K	14.5H	12.4K	0.0A	66.7K	-0.3G	3.4B	3.6J
	55.8K	28.4H	25.2K	0.0A	81.0K	-0.2G	2.1B	2.2J
440.00								
	55.8K	28.4H	25.2K	0.0A	81.0K	0.5B	2.0F	2.4B
	56.6K	32.6H	29.0K	0.0A	85.6K	0.5B	1.2F	1.7B
429.00								
	56.7K	32.8H	28.8K	0.0A	85.5K	0.5B	1.1B	1.6B
	57.4K	34.4H	30.0K	0.0A	87.4K	0.5B	0.5B	1.0B
420.00								
	57.4K	34.4H	29.9K	0.0A	87.3K	-0.4D	-0.4D	0.8D
	58.5K	33.3H	28.3K	0.0A	86.8K	-0.5D	1.0I	1.4G
405.50								
	58.5K	33.3H	28.3K	0.0A	86.8K	0.6H	1.0I	1.5K
	60.1K	24.8H	19.3K	0.0A	79.4K	1.1H	2.6I	3.6K
385.00								
	60.1K	24.8H	19.3K	0.0A	79.4K	1.1H	2.6I	3.7K
	61.3K	13.1H	7.3K	0.0A	68.6K	1.2H	3.7K	4.9H
370.00								
	61.3K	13.2H	7.2K	0.0A	68.5K	1.1H	3.8K	4.9H
	62.1K	8.5A	4.4A	0.0A	64.5G	1.2H	4.5K	5.7H
360.00								
	62.1K	8.5A	4.4A	0.0A	64.5G	1.3H	4.5K	5.9H
	64.6K	40.4A	33.5L	0.0A	95.1L	1.5H	6.5H	8.0H
335.00								
	64.6K	40.4A	33.5L	0.0A	95.1L	1.5H	6.5H	8.0H
	65.3K	50.2A	44.0L	0.0A	106.3L	1.6H	7.0H	8.6H
328.75								
	65.3K	50.1A	44.0L	0.0A	106.3L	1.4H	7.0H	8.4H
	66.6K	67.0A	62.0L	7.0A	125.5L	1.3H	8.0H	9.3H
319.00								
	94.7K	44.0C	37.8L	0.0A	128.1L	0.7H	-7.6D	8.1B
	95.8K	29.3C	22.3L	0.0A	113.7L	0.8H	-6.8D	7.4B
310.00								
	95.8K	29.3C	22.3L	0.0A	113.7L	0.9H	-6.8D	7.5B

	98.3K	18.7D	9.5D	0.0A	103.4G	0.9H	-4.9D	5.6D
285.00								
	98.3K	18.7D	9.5D	0.0A	103.4G	0.9H	-4.9D	5.6D
	99.0K	26.0D	13.2D	0.0A	110.4G	-0.8J	-4.3D	5.1D
278.75								
	99.0K	26.0D	13.2D	0.0A	110.4G	-0.9J	-4.3D	5.1D
	99.8K	35.1D	21.1A	0.0A	118.7G	-0.9J	-3.7D	4.6D
270.00								
	99.8K	35.0D	21.1A	0.0A	118.8G	-0.7J	-3.6D	4.3D
	100.8K	43.5D	28.6A	0.0A	126.4G	0.8H	-3.0D	3.7D
260.00								
	101.0K	43.4D	28.7A	0.0A	126.7G	-1.3J	-2.1F	3.3D
	102.3K	48.0D	32.4A	0.0A	131.5G	-1.4J	-1.0F	2.1J
248.00								
	102.3K	47.9D	32.6A	0.0A	131.7G	-1.4J	-0.9F	2.1J
	103.5K	48.7D	32.5A	0.0A	132.5G	-1.5J	-0.5G	1.9G
237.50								
	103.5K	48.6D	32.5A	0.0A	132.5G	-1.5J	-0.5G	2.0G
	105.2K	45.0D	27.6A	0.0A	129.3G	-1.6J	-1.8A	3.4G
221.00								
	105.2K	45.0D	27.6A	0.0A	129.3G	-1.6J	-1.9G	3.4G
	106.4K	39.2D	21.0A	0.0A	123.9G	-1.7J	-2.8A	4.3G
210.00								
	106.4K	39.2D	21.0A	0.0A	123.9G	-1.7J	-2.8A	4.4G
	107.6K	31.6D	15.8D	0.0A	117.1G	-1.8J	-3.6A	5.2G
200.00								
	107.7K	31.6D	15.9D	0.0A	117.0G	-2.0J	-3.7A	5.6G
	108.7K	23.0D	11.5D	0.0A	113.7J	-2.1J	-4.4A	6.4G
191.25								
	108.7K	23.0D	11.5D	0.0A	113.7J	-2.1J	-4.4A	6.4G
	109.5K	15.8D	7.9D	0.0A	113.5K	-2.2J	-4.9A	6.9G
185.00								
	109.5K	15.8D	7.9D	0.0A	113.5K	-2.2J	-4.9A	7.0G
	110.8K	21.0K	10.5K	0.0A	121.3K	-2.3J	-5.8A	7.8G
175.00								
	110.8K	20.8K	10.4K	0.0A	121.2K	-2.2J	-5.8A	7.9G
	112.3K	38.4K	19.9H	0.0A	131.5K	-2.3J	-6.8A	8.8G
163.54								
	112.3K	38.4K	19.9H	0.0A	131.5K	-2.3J	-6.8A	8.8G
	113.3K	51.3K	32.6H	0.0A	141.7H	-2.4J	-7.4A	9.5G
156.00								
	126.2K	40.9K	22.6H	0.0A	146.7K	-2.0J	6.9E	8.8G
	127.4K	27.0K	13.7K	0.0A	141.1K	-2.1J	6.1K	8.2G
147.50								
	127.4K	27.0K	13.7K	0.0A	141.1K	-2.1J	6.1K	8.2G

	128.3K	17.7K	9.0K	0.0A	137.3K	-2.2J	-5.6I	7.7G
141.25								
	128.3K	17.7K	9.0K	0.0A	137.3K	-2.2J	-5.6I	7.8G
	129.2K	11.6D	5.9F	0.0A	134.0K	-2.2J	-5.1I	7.3G
135.00								
	129.2K	11.6D	5.9F	0.0A	134.0K	-2.4J	-5.1I	7.4G
	132.5K	34.4D	19.3C	0.0A	151.0I	-2.5J	3.1K	5.5G
110.00								
	132.5K	34.4D	19.3C	0.0A	151.0I	-2.6J	3.1K	5.6G
	135.0K	43.7D	31.0C	0.0A	165.7I	-2.6J	1.7K	4.3G
90.00								
	135.0K	43.7D	31.0C	0.0A	165.7I	-2.7J	1.7K	4.3G
	136.5K	45.6D	34.4I	0.0A	170.8I	-2.7J	0.8K	3.5G
78.00								
	136.5K	45.6D	34.4I	0.0A	170.8I	-2.8J	0.8K	3.6G
	139.5K	41.6D	34.0I	0.0A	173.4I	-2.9J	-1.4D	4.3J
53.75								
	139.5K	41.6D	34.0I	0.0A	173.4I	-2.9J	-1.4D	4.3J
	140.3K	39.0D	32.2I	0.0A	172.4I	-3.0J	-1.8D	4.7J
47.50								
	140.3K	39.0D	32.2I	0.0A	172.4I	-3.0J	-1.8D	4.7J
	141.1K	35.7D	29.9I	0.0A	170.8I	-3.0J	-2.2D	5.1J
41.25								
	141.1K	35.7D	29.9I	0.0A	170.8I	-3.0J	-2.2D	5.1J
	141.8K	31.9D	26.9I	0.0A	168.6I	-3.0J	-2.5D	5.5J
35.00								
	141.8K	31.9D	26.9I	0.0A	168.6I	-3.1J	-2.5D	5.6J
	144.9K	10.9F	9.5I	0.0A	154.3I	-3.2J	-3.9D	7.0J
10.00								
	144.9K	15.3D	13.3I	0.0A	158.1I	-4.5J	-3.9D	8.3J
	145.8K	7.9F	6.9I	0.0A	152.5I	-4.5J	-4.2D	8.6J
5.00								
	145.8K	7.9F	6.9I	0.0A	152.5I	-4.5J	-4.2D	8.7J
	146.6K	0.0D	0.0F	0.0A	146.6K	-4.6J	-4.5D	8.9J
0.00								

MAXIMUM MAST DEFORMATION CALCULATED

MAST ELEV FT	.....DEFLECTIONS (FT)..... HORIZONTAL ..... NORTH	EAST	TOTAL	DOWN	.....ROTATIONS (DEG)..... TILT ..... NORTH	EAST	TOTAL	TWIST
553.8	-1.28G	1.09K	1.28G	0.08K	-0.17A	-0.14C	0.17A	1.21J
547.5	-1.26G	1.07K	1.26G	0.08K	-0.17A	-0.14C	0.17A	1.21J
522.9	-1.20G	1.02K	1.20G	0.08K	-0.15A	-0.13C	0.15A	1.21J
516.3	-1.18G	1.00K	1.18G	0.08K	-0.15A	-0.12C	0.15A	1.21J

510.0	-1.17G	0.99K	1.17G	0.08K	-0.14A	-0.12C	0.14A	1.21J
500.0	-1.15G	0.97K	1.15G	0.08K	-0.13A	-0.11C	0.13A	1.21J
492.0	-1.13G	0.96K	1.13G	0.08K	-0.12A	-0.10C	0.12A	1.20J
485.0	-1.12G	0.95K	1.12G	0.08K	-0.11A	-0.09C	0.11A	1.22J
460.0	-1.08G	0.92K	1.08G	0.07K	-0.10A	-0.09C	0.10A	1.24J
440.0	-1.04G	0.89K	1.04G	0.07K	-0.11A	-0.09C	0.11A	1.26J
429.0	-1.02G	0.87K	1.02G	0.07K	-0.12A	0.10K	0.12A	1.26J
420.0	-1.00G	0.85K	1.00G	0.07K	-0.13G	0.11K	0.13G	1.25J
405.5	-0.97G	0.82K	0.97G	0.06K	-0.14G	0.12K	0.14G	1.23J
385.0	-0.92G	0.78K	0.92G	0.06K	-0.15G	0.13K	0.15G	1.19J
370.0	-0.88G	0.74K	0.88G	0.06K	-0.16G	0.14K	0.16K	1.16J
360.0	-0.85G	0.72K	0.85G	0.06K	-0.16G	0.14K	0.16K	1.14J
335.0	-0.78G	-0.67B	0.78G	0.05K	-0.15G	0.13K	0.15K	1.10J
328.8	0.77D	-0.66B	0.77D	0.05K	-0.14G	0.12K	0.14K	1.09J
319.0	0.76D	-0.65B	0.76D	0.05K	-0.12G	0.10K	0.12K	1.08J
310.0	0.75D	-0.64B	0.75D	0.05K	-0.11G	0.09K	0.11K	1.17J
285.0	0.73D	-0.62B	0.73D	0.05K	-0.10G	0.09K	0.10K	1.15J
278.8	0.72D	-0.61B	0.72D	0.04K	-0.10G	0.09K	0.10K	1.13J
270.0	0.71D	-0.61B	0.71D	0.04K	-0.11G	0.09K	0.11K	1.10J
260.0	0.70D	-0.60B	0.70D	0.04K	-0.11G	0.10K	0.11K	1.08J
248.0	0.69D	-0.58B	0.69D	0.04K	-0.12G	0.10K	0.12G	1.02J
237.5	0.67D	-0.57B	0.67D	0.04K	-0.13G	0.11K	0.13G	0.97J
221.0	0.64D	-0.54B	0.64D	0.04K	-0.14G	0.12K	0.14G	0.88J
210.0	0.61D	-0.52B	0.61D	0.03K	-0.14G	0.12K	0.14G	0.81J
200.0	0.59D	-0.50B	0.59D	0.03K	-0.15G	0.12K	0.15G	0.78J
191.3	0.57D	-0.48B	0.57D	0.03K	-0.15G	0.12K	0.15G	0.75J
185.0	0.55D	-0.47B	0.55D	0.03K	-0.15G	0.12K	0.15G	0.72J
175.0	0.53D	-0.45B	0.53D	0.03K	0.15D	-0.12B	0.15D	0.69J
163.5	0.50D	-0.42B	0.50D	0.03K	0.14D	-0.12B	0.14D	0.65J
156.0	0.48D	-0.41B	0.48D	0.03K	0.14D	-0.12B	0.14D	0.63J
147.5	0.46D	-0.39B	0.46D	0.02K	0.14D	-0.12B	0.14D	0.67J
141.3	0.45D	-0.38B	0.45D	0.02K	0.14D	-0.12B	0.14D	0.66J
135.0	0.43D	-0.36B	0.43D	0.02K	0.14D	-0.12B	0.14D	0.65J
110.0	0.37D	-0.31B	0.37D	0.02K	0.15D	-0.13B	0.15D	0.56J
90.0	0.31D	-0.27B	0.31D	0.01K	0.16D	-0.14B	0.16D	0.47J
78.0	0.28D	-0.24B	0.28D	0.01K	0.18D	-0.15B	0.18D	0.41J
53.8	0.20D	-0.17B	0.20D	0.01K	0.20D	-0.17B	0.20D	0.28J
47.5	0.18D	-0.15B	0.18D	0.01K	0.20D	-0.17B	0.20D	0.25J
41.3	0.16D	-0.13B	0.16D	0.01K	0.21D	-0.17B	0.21D	0.21J
35.0	0.13D	-0.11B	0.13D	0.01K	0.21D	-0.18B	0.21D	0.18J
10.0	0.04D	-0.03B	0.04D	0.00K	0.22D	-0.19B	0.22D	0.03J
5.0	0.02D	-0.02B	0.02D	0.00K	0.22D	-0.19B	0.22D	0.02J
0.0	0.00A	0.00A	0.00A	0.00A	0.22D	-0.19B	0.22D	0.00A

MAXIMUM ANTENNA ROTATIONS
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ELEV FT	ORIENTATION AZI DEG	ORIENTATION ELEV DEG	BEAM DEFLECTIONS (DEG) ROLL	YAW	PITCH	TOTAL
595.0	0.0	0.0	0.144 C	1.207 J	0.171 A	1.210 J
570.0	0.0	0.0	0.144 C	1.207 J	0.171 A	1.210 J
513.0	0.0	0.0	0.120 C	1.206 J	0.143 A	1.208 J
501.0	0.0	0.0	0.108 C	1.205 J	0.130 A	1.206 J
500.0	0.0	0.0	0.107 C	1.205 J	0.128 A	1.206 J
440.0	0.0	0.0	0.093 C	1.256 J	0.112 A	1.257 J
429.0	0.0	0.0	-0.100 K	1.259 J	0.118 A	1.260 J
420.0	0.0	0.0	-0.107 K	1.251 J	0.125 G	1.252 J
400.0	0.0	0.0	-0.122 K	1.220 J	0.141 G	1.222 J
388.0	0.0	0.0	-0.129 K	1.196 J	0.150 G	1.199 J
370.0	0.0	0.0	-0.136 K	1.160 J	0.157 G	1.165 J
325.0	0.0	0.0	-0.114 K	1.086 J	0.132 G	1.089 J
289.0	0.0	0.0	-0.090 K	1.153 J	0.104 G	1.154 J
280.0	0.0	0.0	-0.090 K	1.135 J	0.104 G	1.137 J
280.0	0.0	0.0	-0.090 K	1.135 J	0.104 G	1.137 J
270.0	0.0	0.0	-0.092 K	1.104 J	0.107 G	1.106 J
260.0	0.0	0.0	-0.097 K	1.078 J	0.113 G	1.080 J
250.0	0.0	0.0	-0.102 K	1.030 J	0.119 G	1.034 J
248.0	0.0	0.0	-0.103 K	1.021 J	0.121 G	1.024 J
221.0	0.0	0.0	-0.117 K	0.876 J	0.139 G	0.883 J
200.0	0.0	0.0	-0.124 K	0.779 J	0.147 G	0.790 J
175.0	0.0	0.0	0.124 B	0.689 J	-0.146 D	0.703 J
150.0	0.0	0.0	0.116 B	0.660 J	-0.137 D	0.672 J
137.0	240.0	0.0	-0.119 D	0.652 J	-0.134 B	0.655 J
134.0	120.0	0.0	0.119 D	0.645 J	-0.131 F	0.648 J
131.0	0.0	0.0	0.117 B	0.635 J	-0.139 D	0.647 J
90.0	0.0	0.0	0.139 B	0.469 J	-0.165 D	0.493 J

MAXIMUM INTERNAL MAST FORCES

MAST ELEV FT	TOTAL AXIAL KIP	SHEAR N - S KIP	SHEAR E - W KIP	MOMENT N - S FT-KIP	MOMENT E - W FT-KIP	TORSION FT-KIP
553.8						
	3.56 G	-2.10 A	-1.82 B	-62.19 D	-52.47 F	0.91 B
	5.00 G	2.76 D	-2.40 B	-77.44 D	65.65 B	-0.80 C
547.5						
	5.00 G	2.76 D	-2.40 B	-77.44 D	65.65 B	-0.57 C
	10.68 G	5.42 D	-4.71 B	-178.34 D	153.19 B	-0.33 C
522.9						
	10.68 G	5.42 D	-4.71 B	-178.35 D	153.19 B	-0.27 C
	12.21 G	6.13 D	-5.33 B	-216.62 D	186.45 B	-0.21 C
516.3						
	12.21 G	6.13 D	-5.33 B	-216.62 D	186.45 B	-0.28 A
	13.91 G	7.33 D	6.26 F	-259.05 D	222.34 B	0.75 C
510.0						
	13.91 G	7.33 D	6.26 F	-259.05 D	222.34 B	-0.81 A
	16.88 G	8.71 D	-7.47 B	-338.03 D	-290.56 F	2.47 E
500.0						
	16.89 G	8.75 D	-7.51 B	-338.06 D	-290.56 F	2.39 E
	19.20 G	9.77 D	-8.40 B	-412.15 D	-354.10 F	2.53 E
	*	+	+	&	&	@
492.0	134.94 K	-19.82 D	17.22 B	216.59 J	-190.20 H	6.67 G
	154.14 K	-9.78 D	8.56 B	-201.25 D	-172.23 F	4.46 G
	156.16 K	-8.88 D	7.78 B	-135.51 D	-115.32 E	4.26 G
485.0						
	156.16 K	-8.88 D	7.78 B	-135.51 D	-115.32 E	3.54 G
	162.96 K	-5.77 D	5.07 B	90.11 J	-87.81 H	2.83 G
460.0						
	162.96 K	-5.77 D	5.07 B	90.11 J	-87.81 H	2.26 G
	167.36 K	-3.54 D	3.13 B	184.14 J	-170.82 H	1.70 G
440.0						
	167.47 K	-3.39 D	-2.98 F	185.11 J	-171.38 H	-3.20 B
	169.94 K	-2.10 D	-1.86 F	214.81 J	-196.82 H	-3.48 B
429.0						
	170.12 K	-1.81 D	1.61 B	213.90 J	-197.73 H	-3.31 B
	172.15 K	-0.75 D	0.68 B	224.37 J	-207.01 H	-3.56 B
420.0						
	172.26 K	-0.59 D	0.51 B	223.63 J	-207.12 H	2.88 D
	175.55 K	-1.71 G	-1.55 I	216.28 J	-200.42 H	3.23 D

405.5						
	175.55 K	-1.71 G	-1.55 I	216.28 J	-200.41 H	-4.19 H
	180.36 K	-4.42 G	-3.92 I	159.97 J	-149.81 H	-7.30 H
385.0						
	180.36 K	-4.42 G	-3.92 I	159.97 J	-149.82 H	-7.90 H
	183.84 K	-6.27 G	-5.53 I	81.62 J	-79.44 H	-8.50 H
370.0						
	183.96 K	-6.43 G	-5.69 I	80.89 J	-79.56 H	-7.93 H
	186.30 K	-7.70 G	-6.80 I	58.67 A	45.32 C	-8.33 H
360.0						
	186.30 K	-7.70 G	-6.80 I	58.67 A	45.32 C	-9.30 H
	193.81 K	-11.03 G	-9.74 H	279.74 A	238.79 C	-10.27 H
335.0						
	193.81 K	-11.03 G	-9.74 H	279.73 A	238.79 C	-10.51 H
	196.05 K	-11.88 G	-10.50 H	347.46 A	297.93 C	-10.76 H
328.8						
	196.05 K	-11.88 G	-10.50 H	347.45 A	297.93 C	-9.55 H
	199.74 K	-13.49 G	-11.97 H	464.11 A	-401.79 K	-8.95 H
	*	+	+	&	&	@
319.0	84.44 K	-26.43 J	22.87 H	169.28 J	-147.78 H	5.86 G
	284.18 K	-13.09 D	11.12 B	303.40 A	263.41 C	-4.85 H
	287.41 K	-11.83 D	10.03 B	197.63 A	174.99 C	-5.22 H
310.0						
	287.41 K	-11.83 D	10.03 B	197.63 A	174.98 C	-6.05 H
	295.03 K	-8.43 D	7.03 B	129.48 D	-105.18 B	-6.05 H
285.0						
	295.03 K	-8.43 D	7.03 B	129.49 D	-105.16 B	-6.06 H
	296.94 K	-7.48 D	6.17 B	180.24 D	-147.94 B	5.76 J
278.8						
	296.94 K	-7.48 D	6.17 B	180.25 D	-147.94 B	5.98 J
	299.39 K	-6.46 D	5.28 B	242.90 D	-199.42 B	6.19 J
270.0						
	299.51 K	-6.29 D	5.13 B	242.60 D	-198.90 B	5.11 J
	302.31 K	-5.11 D	4.10 B	301.12 D	-246.31 B	-5.36 H
260.0						
	302.88 K	-3.54 D	-3.19 F	300.61 D	-247.20 B	9.10 J
	306.83 K	-1.35 D	-1.50 F	332.39 D	-274.85 B	9.39 J
248.0						
	306.95 K	-1.25 D	-1.33 F	331.63 D	-274.84 B	9.74 J
	310.35 K	-0.92 G	0.63 K	337.07 D	-279.86 B	10.09 J
237.5						
	310.35 K	-0.92 G	0.63 K	337.05 D	-279.85 B	10.64 J
	315.71 K	-3.17 A	2.61 E	311.70 D	-258.34 B	11.21 J
221.0						

	315.75 K	-3.26 G	2.68 E	311.79 D	-258.30 B	11.22 J
	319.33 K	-4.80 A	4.03 E	271.32 D	-223.50 B	11.65 J
210.0						
	319.33 K	-4.80 A	4.03 E	271.33 D	-223.50 B	12.03 J
	322.90 K	-6.23 A	5.28 E	218.86 D	-178.26 B	12.42 J
200.0						
	323.04 K	-6.43 A	5.45 E	219.24 D	-178.91 B	14.20 J
	326.17 K	-7.67 A	6.53 E	159.37 D	-127.23 B	14.53 J
191.3						
	326.17 K	-7.67 A	6.52 E	159.39 D	-127.24 B	14.76 J
	328.40 K	-8.55 A	7.29 E	109.75 D	-84.32 B	15.00 J
185.0						
	328.40 K	-8.55 A	7.29 E	109.75 D	-84.33 B	15.37 J
	332.30 K	-9.97 A	8.52 E	139.18 G	-125.65 K	15.74 J
175.0						
	332.42 K	-10.09 A	8.63 E	140.18 G	-125.08 K	15.58 J
	336.89 K	-11.70 A	10.02 E	263.29 G	-230.43 K	16.00 J
163.5						
	336.89 K	-11.70 A	10.02 E	263.29 G	-230.42 K	16.27 J
	339.98 K	-12.75 A	10.94 E	353.58 G	-307.83 K	16.54 J
	*	+	+	&	&	@
156.0	40.65 J	24.46 A	-21.07 E	-72.35 G	62.11 K	-3.41 J
	378.51 K	11.86 A	-10.32 E	281.22 G	-245.72 K	13.70 J
	382.26 K	10.54 A	-9.20 K	185.59 G	-162.65 K	14.65 J
147.5						
	382.26 K	10.54 A	-9.20 K	185.58 G	-162.65 K	14.89 J
	384.94 K	9.70 G	8.47 I	121.56 G	-106.82 K	15.14 J
141.3						
	384.94 K	9.70 G	8.47 I	121.56 G	-106.82 K	15.34 J
	387.68 K	8.81 G	7.69 I	80.37 D	65.04 F	15.50 J
135.0						
	387.68 K	8.81 G	7.69 I	80.37 D	65.04 F	16.36 J
	397.62 K	5.35 G	-4.68 K	238.07 D	202.83 F	17.13 J
110.0						
	397.62 K	5.35 G	-4.68 K	238.07 D	202.84 F	17.71 J
	405.04 K	2.88 G	-2.52 K	302.49 D	259.60 F	18.29 J
90.0						
	405.06 K	2.84 G	-2.49 K	302.47 D	259.60 F	18.62 J
	409.52 K	1.39 G	-1.23 K	315.79 D	271.62 F	18.95 J
78.0						
	409.52 K	1.39 G	-1.23 K	315.79 D	271.62 F	19.58 J
	418.55 K	2.47 D	2.09 F	288.44 D	248.71 F	20.20 J
53.8						
	418.55 K	2.46 D	2.09 F	288.43 D	248.72 F	20.35 J

	420.87 K	3.13 D	2.67 F	270.16 D	233.03 F	20.50 J
47.5	.....					
	420.87 K	3.13 D	2.67 F	270.16 D	233.03 F	20.64 J
	423.20 K	3.77 D	3.22 F	247.58 D	213.65 F	20.79 J
41.3	.....					
	423.20 K	3.78 D	3.22 F	247.58 D	213.64 F	20.92 J
	425.53 K	4.39 D	3.76 F	220.90 D	190.70 F	21.06 J
35.0	.....					
	425.53 K	4.39 D	3.76 F	220.89 D	190.68 F	21.59 J
	434.83 K	6.75 D	5.81 F	75.68 D	65.40 F	22.12 J
10.0	.....					
	434.83 K	6.75 D	5.81 F	75.68 D	65.41 F	22.22 J
	437.44 K	7.30 D	6.29 F	39.18 D	33.87 F	22.33 J
5.0	.....					
	437.44 K	7.30 D	6.29 F	39.18 D	33.87 F	22.43 J
	439.75 K	7.81 D	6.73 F	0.00 D	0.00 F	22.54 J
base reaction	439.75 K	-7.03 D	-6.11 F	0.00 A	0.00 F	-22.54 J

* VERTICAL GUY LOAD & GUY ECCENTRIC MOMENT
\+ HORIZONTAL REACTION @ TORSIONAL RESISTANCE

MAXIMUM GUY FORCES AT MAST

GUY LEVEL FT	GUY AZI	.....COMPONENTS AT MAST..... N KIP	E KIP	DOWN KIP	TOTAL KIP	FACTOR OF SAFETY	...GUY ANGLES... VERT	HORIZ
492.0	0.0	37.0G	1.5K	74.7G	83.4G	4.5G	-63.7G	5.3K
	120.0	-18.5I	32.0I	74.6I	83.3I	4.5I	-63.7I	-5.3K
	240.0	-18.5K	-32.1K	75.0K	83.6K	4.5K	-63.7K	-5.3G
319.0	0.0	40.2G	0.8K	51.4G	65.3G	4.2G	-53.1D	3.7K
	120.0	-20.0I	34.6I	51.0I	64.8I	4.3I	-53.0F	-3.7K
	240.0	-20.1K	-34.9K	51.4K	65.3K	4.2K	-53.1B	-3.7G
156.0	0.0	37.0G	0.4K	23.0G	43.6G	4.4G	-34.7D	2.0K
	120.0	-18.4I	31.9I	22.9I	43.3I	4.4I	-34.6F	-2.0K
	240.0	-18.5K	-32.0K	23.0K	43.5K	4.4K	-34.7B	-2.0G

MAXIMUM GUY FORCES AT ANCHOR

GUY	GUY	.....COMPONENTS AT ANCHOR.....	FACTOR

LEVEL FT	AZI	RAD KIP	LAT KIP	VERT KIP	TOTAL KIP	OF SAFETY
492.0	0.0	39.5G	1.5I	69.2G	79.6G	4.7G
	120.0	39.4I	-1.5G	69.1I	79.5I	4.7I
	240.0	39.6K	-1.5I	69.4K	79.9K	4.7K
319.0	0.0	41.3G	0.9I	48.2G	63.4G	4.4G
	120.0	40.9I	-0.9G	47.8I	62.9I	4.4I
	240.0	41.3K	-0.9I	48.2K	63.5K	4.3K
156.0	0.0	37.2G	0.4I	21.4G	42.9G	4.5G
	120.0	37.0I	-0.4G	21.3I	42.7I	4.5I
	240.0	37.1K	0.4G	21.4K	42.8K	4.5K

MAXIMUM ANCHOR LOADS
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AZI DEG	RADIUS FT	GUY TO ELEV FT	....ANCHOR LOADS..... HORIZ KIP	VERT KIP	LATERAL KIP	AXIAL KIP	.....SHAFT FORCES..... ...LATERAL... VERT PLANE KIP	HORIZ PLANE KIP	ANGLE DEG
0.0	265.0	492.0	39.5G	69.2G	1.5I	78.3G	14.7G	1.5I	
		319.0	41.3G	48.2G	0.9I	63.4G	-0.6E	0.9I	
		156.0	37.2G	21.4G	0.4I	40.4G	-14.5G	0.4I	
			118.0G	138.8G	2.8I	182.1G	0.0H	2.8I	49.6G
120.0	265.0	492.0	39.4I	69.1I	-1.5G	78.2I	14.7I	-1.5G	
		319.0	40.9I	47.8I	-0.9G	62.9I	-0.6A	-0.9G	
		156.0	37.0I	21.3I	-0.4G	40.2I	-14.4I	-0.4G	
			117.3I	138.2I	-2.8G	181.3I	0.0I	-2.8G	49.7I
240.0	265.0	492.0	39.6K	69.4K	-1.5I	78.5K	14.7K	-1.5I	
		319.0	41.3K	48.2K	-0.9I	63.5K	-0.6A	-0.9I	
		156.0	37.1K	21.4K	0.4G	40.3K	-14.5K	0.4G	
			118.0K	139.0K	-2.8I	182.3K	0.0F	-2.8I	49.7K

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Fax (860) 409-4364

FINANCE DEPARTMENT
Tel. (860) 409-4339
Fax (860) 409-4366

FIRE MARSHAL
Tel. (860) 409-4319
Fax (860) 409-4364

LANDFILL
281 Huckleberry Hill Rd.
Tel. (860) 673-3677

PLANNING & ZONING
Tel. (860) 409-4328
Fax (860) 409-4364

POLICE DEPARTMENT
Tel. (860) 409-4200
Fax (860) 409-4206

PROBATE
Tel. (860) 409-4348
Fax (860) 409-4368

PUBLIC LIBRARY
281 Country Club Road
Tel. (860) 673-9712
Fax (860) 675-6364

PUBLIC WORKS
11 Arch Road
Tel. (860) 673-6151
Fax (860) 673-0338

RECREATION AND PARKS
Tel. (860) 409-4332
Fax (860) 409-4366
Cancellation (860) 409-4365

REGISTRAR OF VOTERS
Tel. (860) 409-4350
Fax (860) 409-4368

SOCIAL SERVICES
Tel. (860) 409-4346
Fax (860) 409-4366

TOWN CLERK
Tel. (860) 409-4310
Fax (860) 677-8428

TDD HEARING IMPAIRED
Tel. (860) 409-4361

February 7, 2002

The Marcus Group
c/o Julie M. Donaldson, Esq.
Hurwitz & Sagarin LLC
P. O. Box 112
Milford, CT 06460-0112

Dear Ms. Donaldson:

At a meeting held on February 5, 2002, the Planning and Zoning Commission of the Town of Avon voted as follows:

App. #3767 - Paul P. & Sandra M. Flynn, Trustees, owner, The Marcus Group, applicant, request for Special Exception under Section IV.A.4.a. of Avon Zoning Regulations to add 4 antennas to existing tower, 376 Deercliff Road, Assessor's Map 15, Parcel 2090376, in a RU-2A Zone. APPROVED WITH CONDITION.

The Commission approved App. #3767 subject to the following condition:

1. A report shall be submitted which documents compliance with the standards required in Condition #7 of the Planning and Zoning Commission's 1985 approval of Apps. #1430, #1431, and #1432 for the tower. The report shall be reviewed by staff. If staff is not satisfied that the report meets the condition of the 1985 approval, the applicant must return to the Commission.

In addition, please note that the Commission has adopted a standard condition of approval relating to inspections of the property as may be necessary, which is as follows: Until the final permanent certificate of occupancy is issued, Town staff members, officials, and consultants as designated by the Town Planner or the Chairman shall be authorized and permitted to conduct inspections upon the property.

Upon compliance with condition #1, the chairman of the Planning and Zoning Commission has been authorized to sign the mylar maps for filing. This letter of approval shall be reproduced on the mylars. Please submit 1 set of fixed-line photo mylars and 3 copies.

Please note that prior to your Special Exception becoming effective, a certified copy must be filed with the Town Clerk. The fee is $13 per page. Please return the enclosed Grant of Special Exception to this office for the chairman's signature along with the recording fee (check should be payable to Town of Avon). No building permit shall be issued until this certification has been returned and the 15-day appeal period has expired.

Sincerely yours,

Jean Frey

Jean Frey, Clerk
Planning and Zoning Commission

Enclosure

CERTIFIED MAIL 7099 3400 0010 2711 8884

cc: Building Official
Town Engineer
Assessor
Paul P. & Sandra M. Flynn, Trustees

Application #3767

TOWN OF AVON, CONNECTICUT

GRANT OF VARIANCE AND SPECIAL EXCEPTION

On the application of The Marcus Group,

the Planning and Zoning Commission of the Town of Avon, Connecticut did grant a

____ Variance

__X__ Special Exception

effective on the 5th day of February, 2002, in relation to the following property:

Street Address: 376 Deercliff Road

Description of Premises:

Assessor's Aerial Map No. 15

Parcel ID No. 2090376

Owner of Record: Paul P. & Sandra M. Flynn, Trustees

Volume: 370 Page 855

Avon Land Records

This grant is made in accordance with the provisions of Section IV.A.4.a. of the regulations of the Commission. The applicant was granted the right to:

add four (4) antennas to existing tower

Certified this _____ day of _____, 2002.

By _____
Chairman, Planning and Zoning Commission

Power Density Calculation

CT-901 Avon
376 Deercliff Road
Avon, CT

Proposed Marcus Communications LLC antennas:

Transmitter	Frequency	CT Standard (mW/cm^2)	Number of Channels	ERP/channel (mW)	Centerline of transmitter (cm)	Antenna Gain (dBi)	Power density calculated at tower base	Percentage of CT and Federal Standard
Proposed Microwave Dish	5.8GHz	1.00	1	100	8534.0	28.5	0.00000	0.0003%
Proposed Microwave Dish	5.8GHz	1.00	1	100	4176.0	28.5	0.00001	0.0013%
Proposed Microwave Dish	5.8GHz	1.00	1	100	4084.0	28.5	0.00001	0.0014%
Proposed Microwave Dish	5.8GHz	1.00	1	100	3993.0	28.5	0.00001	0.0014%
					Total Percentage			0.0044%

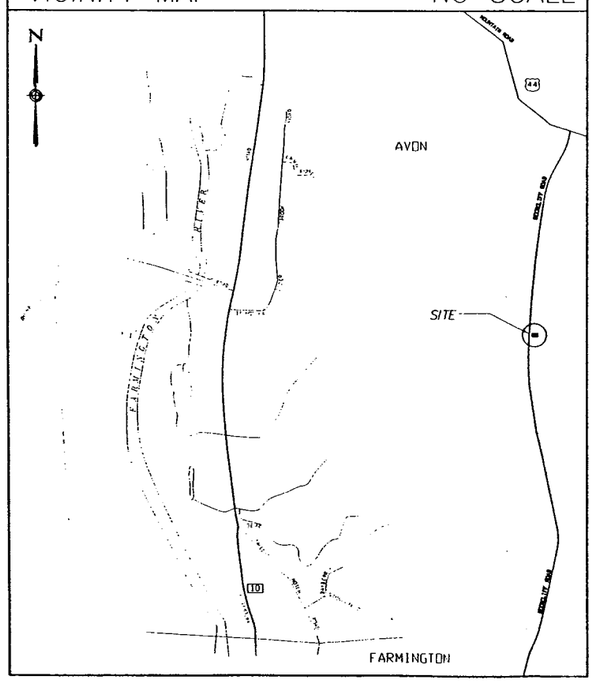
$S = (P*G)/(4*pi*R^2)$

MARCUS COMMUNICATIONS LLC

UNMANNED WIRELESS COMMUNICATIONS EQUIPMENT SITE

CT-901
AVON
376 DEERCLIFF ROAD
AVON, CONNECTICUT

VICINITY MAP NO SCALE



SHEET INDEX

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
Z-1	SITE PLAN, TOWER ELEVATION, LEGENDS AND NOTES

PROJECT SUMMARY

SITE NAME:	CT-901 AVON
SITE ADDRESS:	376 DEERCLIFF ROAD AVON, CONNECTICUT
CURRENT ZONING:	RESIDENTIAL (RU2A)
GOVERNING CODE:	CONNECTICUT BUILDING CODE CONNECTICUT FIRE SAFETY CODE
JURISDICTION:	TOWN OF AVON
APPLICANT/LESSEE:	MARCUS COMMUNICATIONS LLC 275 NEW STATE ROAD MANCHESTER, CT 06040
A/E:	URS CORPORATION AES 795 BROOK STREET ROCKY HILL, CT 06067
LATTITUDE: LONGITUDE: ELEVATION:	41°-46.500' 72°-48.087 675' AMSL

MARCUS COMMUNICATIONS LLC
275 NEW STATE ROAD
MANCHESTER, CT 06040

A&E FIRM
URS CORPORATION AES
795 BROOK STREET. BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

A&E SEAL

PROJECT NO:	F302003.08
DRAWN BY:	MCD
CHECKED BY:	
APPROVED BY:	

ISSUED FOR

0	10-26-01	90% REVIEW
1	11-07-01	FINAL REVIEW
2	11-19-01	CLIENT APPROVAL
3	11-29-01	PLANNING AND ZONING

CT-901
AVON

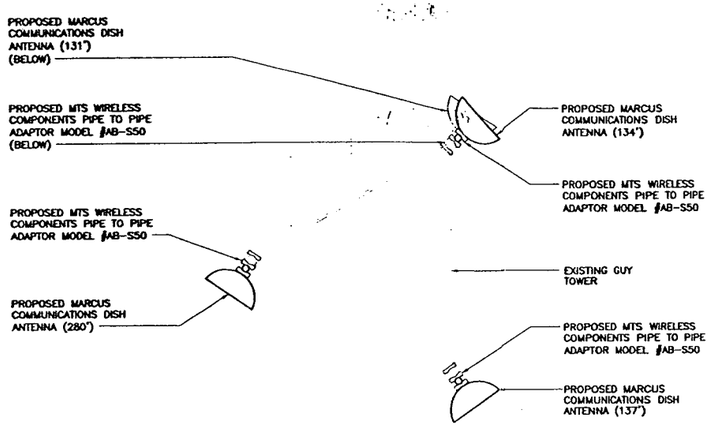
376 DEERCLIFF ROAD
AVON, CONNECTICUT

TITLE SHEET

T-1

ANTENNA SCHEDULE

ANTENNA	ANTENNA AZIMUTH	ANTENNA CENTERLINE	MECHANICAL DOWNTILT (deg.)	CABLE SIZE (DIA.)
RADIOWAVE #SPD2-5.8	–	131'	0	1/2"
RADIOWAVE #SPD2-5.8	–	134'	0	1/2"
RADIOWAVE #SPD2-5.8	–	137'	0	1/2"
RADIOWAVE #SPD2-5.8	–	280'	0	1/2"



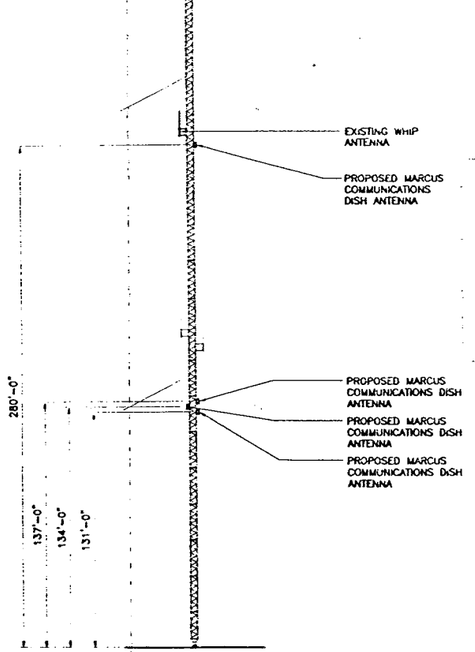
3 / C-1 **ANTENNA SECTOR PLAN**
SCALE: N.T.S.

LEGEND

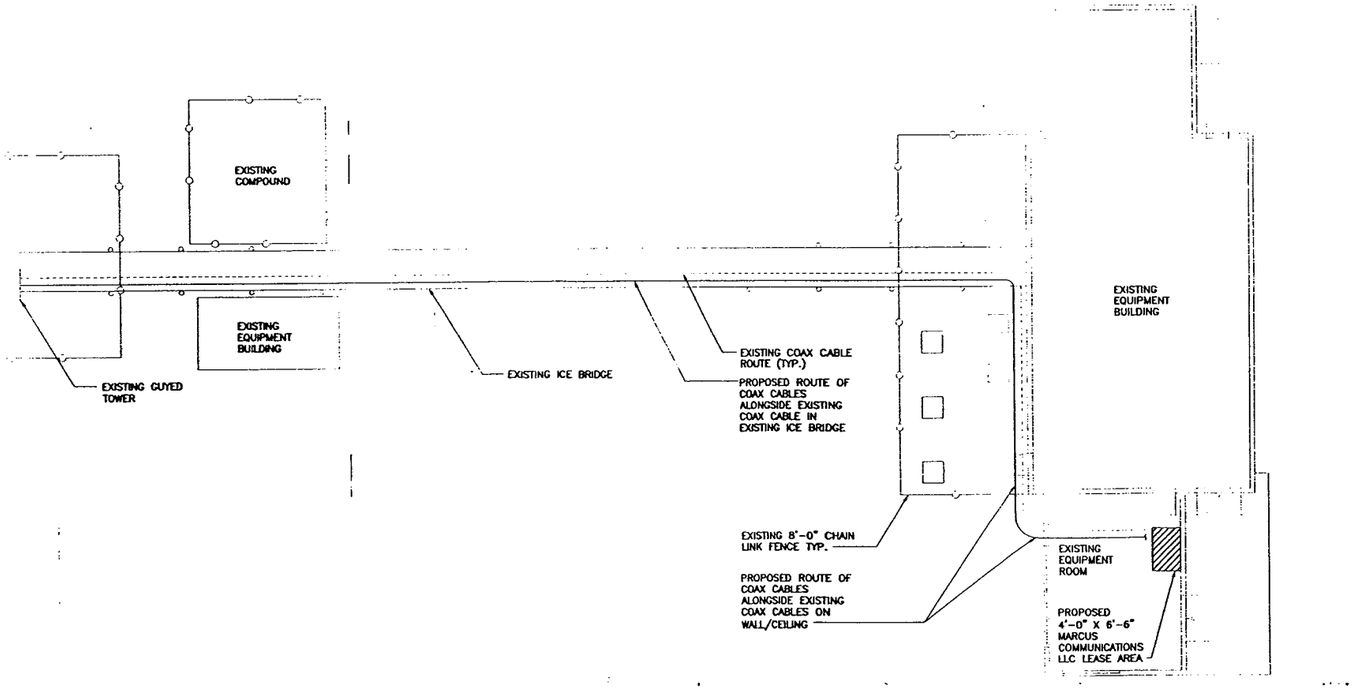
DESCRIPTIONS	EXISTING
LEASE LINE	
CHAIN LINK FENCE	
CONTOUR LINES	880
UTILITY POLE	

ABBREVIATION LIST

AFF	ABOVE FINISHED FLOOR	NO.	NUMBER
AFG	ABOVE FINISHED GRADE	N.T.S.	NOT TO SCALE
AGL	ABOVE GRADE LINE	NOM	NOMINAL
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRIC CODE
A	AMP	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	O.D.	OUTSIDE DIAMETER
BRG	BEARING	P.S.F.	POUNDS PER SQUARE FOOT
℄	CENTERLINE	PT	PRESSURE TREATED
DEG	DEGREE	ℙ	POLE
DIA	DIAMETER	PH	PHASE
EGR	EXTERIOR GROUND RING	PVC	POLY VINYL CHLORIDE
E	ELECTRIC CONDUIT	ℙ	PLATE
EQ	EQUAL	SIM	SIMILAR
FT	FEET	S.S.	STAINLESS STEEL
FA	FIRE ALARM	TELCO	TELEPHONE COMPANY SERVICE
FACP	FIRE ALARM CALLOUT PANEL	TYP.	TYPICAL
GA	GAUGE	T	TELEPHONE CONDUIT
GALV	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
G	GROUND	V	VOLTS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VAC	VOLTS ALTERNATING CURRENT
GRC	GALVANIZED RIGID CONDUIT	V.I.F.	VERIFY IN FIELD
LB	POUND	W/	WITH
LG	LONG	WP	WEATHERPROOF
MIN.	MINIMUM	W	WIRE



2 / C-1 **TOWER ELEVATION**
SCALE: 1" = 40'-0"



1 / C-1 **SITE PLAN**
SCALE: 1" = 10'-0"

MARCUS COMMUNICATIONS LLC
275 NEW STATE ROAD
MANCHESTER, CT 06040

A&E FIRM
URS CORPORATION AES
795 BROOK STREET. BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

A&E SEAL

PROJECT NO:	F302003.08
DRAWN BY:	MCD
CHECKED BY:	
APPROVED BY:	

ISSUED FOR		
0	10-26-01	90% REVIEW
1	11-07-01	FINAL REVIEW
2	11-19-01	CLIENT APPROVAL
3	11-29-01	PLANNING AND ZONING

CT-901
AVON

376 DEERCLIFF ROAD
AVON, CONNECTICUT

SITE PLAN, TOWER ELEVATION, LEGENDS AND NOTES

Z-1

TOWN OF AVON

60 West Main St. Avon, CT 06001-3743

POLICE, FIRE & MEDICAL EMERGENCY - 911

TOWN MANAGER'S OFFICE
Tel. (860) 409-4300
Fax (860) 409-4368

ACCOUNTING
Tel. (860) 409-4339
Fax (860) 409-4366

ASSESSOR'S OFFICE
Tel. (860) 409-4335
Fax (860) 409-4366

BUILDING DEPARTMENT
Tel. (860) 409-4316
Fax (860) 409-4364

COLLECTOR OF REVENUE
Tel. (860) 409-4306
Fax (860) 677-8428

ENGINEERING DEPARTMENT
Tel. (860) 409-4322
Fax (860) 409-4364

FINANCE DEPARTMENT
Tel. (860) 409-4339
Fax (860) 409-4366

FIRE MARSHAL
Tel. (860) 409-4319
Fax (860) 409-4364

LANDFILL
281 Huckleberry Hill Rd.
Tel. (860) 673-3677

PLANNING & ZONING
Tel. (860) 409-4328
Fax (860) 409-4364

POLICE DEPARTMENT
Tel. (860) 409-4200
Fax (860) 409-4206

PROBATE
Tel. (860) 409-4348
Fax (860) 409-4368

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Fax (860) 409-4366
Cancellation (860) 409-4365

REGISTRAR OF VOTERS
Tel. (860) 409-4350
Fax (860) 409-4368

SOCIAL SERVICES
Tel. (860) 409-4346
Fax (860) 409-4366

TOWN CLERK
Tel. (860) 409-4310
Fax (860) 677-8428

TDD HEARING IMPAIRED
Tel. (860) 409-4361

February 7, 2002

The Marcus Group
c/o Julie M. Donaldson, Esq.
Hurwitz & Sagarin LLC
P. O. Box 112
Milford, CT 06460-0112

Dear Ms. Donaldson:

At a meeting held on February 5, 2002, the Planning and Zoning Commission of the Town of Avon voted as follows:

App. #3767 - Paul P. & Sandra M. Flynn, Trustees, owner, The Marcus Group, applicant, request for Special Exception under Section IV.A.4.a. of Avon Zoning Regulations to add 4 antennas to existing tower, 376 Deercliff Road, Assessor's Map 15, Parcel 2090376, in a RU-2A Zone. APPROVED WITH CONDITION.

The Commission approved App. #3767 subject to the following condition:

1. A report shall be submitted which documents compliance with the standards required in Condition #7 of the Planning and Zoning Commission's 1985 approval of Apps. #1430, #1431, and #1432 for the tower. The report shall be reviewed by staff. If staff is not satisfied that the report meets the condition of the 1985 approval, the applicant must return to the Commission.

In addition, please note that the Commission has adopted a standard condition of approval relating to inspections of the property as may be necessary, which is as follows: Until the final permanent certificate of occupancy is issued, Town staff members, officials, and consultants as designated by the Town Planner or the Chairman shall be authorized and permitted to conduct inspections upon the property.

Upon compliance with condition #1, the chairman of the Planning and Zoning Commission has been authorized to sign the mylar maps for filing. This letter of approval shall be reproduced on the mylars. Please submit 1 set of fixed-line photo mylars and 3 copies.

Please note that prior to your Special Exception becoming effective, a certified copy must be filed with the Town Clerk. The fee is $13 per page. Please return the enclosed Grant of Special Exception to this office for the chairman's signature along with the recording fee (check should be payable to Town of Avon). No building permit shall be issued until this certification has been returned and the 15-day appeal period has expired.

Sincerely yours,

Jean Frey

Jean Frey, Clerk
Planning and Zoning Commission

Enclosure

CERTIFIED MAIL 7099 3400 0010 2711 8884

cc: Building Official
Town Engineer
Assessor
Paul P. & Sandra M. Flynn, Trustees

7099 3400 0010 2711 8884

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To:
The Marcus Group c/o Julie M. Donaldson, Esq

Postage	$ .34
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 2.44

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)
Hurwitz & Sagarin LLC
Street, Apt. No.; or PO Box No.
P.O. Box 112
City, State, ZIP+4
Milford, CT 06460-0112

PS Form 3800, July 1999 See Reverse for Instructions

TOWN OF AVON

P.O. BOX 578
60 WEST MAIN ST.
AVON, CT 06001
TEL. (203) 677-2634

November 20, 1985

CERTIFIED MAIL

Mr. Richard P. Ramirez, Managing General Partner
Astroline Communications Company Limited Partnership
18 Garden Street
Hartford, CT

Dear Mr. Ramirez:

At a Special Meeting held on Tuesday, November 19, 1985, the Planning and Zoning Commission of the Town of Avon voted as follows:

App. #1430 - Astroline Communications Company Limited Partnership, owner/applicant, request for Special Exception under Section IV.A.4.a. of the Avon Zoning Regulations, to permit communication transmission station and tower; and under Section III.B.2.a. for waiver of height provisions, 376 Deercliff Road, 30.343 acres, Parcel Nos. 24, 25, and 26 on Assessor's Map 15, in a RU-2A Zone - APPROVED WITH CONDITIONS.

App. #1431 - Astroline Communications Company Limited Partnership, owner/applicant, request for Special Exception under Section IV.A.4.a. of the Avon Zoning Regulations, to permit a satellite dish as part of a Communication Transmission Station, and under Section III.B.2.a. for a waiver of the height provisions, 376 Deercliff Road, 30.343 acres, Parcel Nos. 24, 25, and 26 on Assessor's Map 15, in a RU-2A Zone - APPROVED WITH CONDITIONS.

App. #1432 - Astroline Communications Company Limited Partnership, owner/applicant, request for Site Plan Approval, communication tower and building and residence, 376 Deercliff Road, 30.343 acres, Parcel Nos. 24, 25, and 26 on Assessor's Map 15, in a RU-2A Zone - APPROVED WITH CONDITIONS.

The Commission granted approval of App. #1430, #1431 and #1432 (above) subject to the following conditions:

1. No part or portion of any tower, antenna, or other structure shall exceed a height of 750 feet above ground; and no part or portion of any tower, antenna, or other structure shall exceed a height of 1425 feet above mean sea level.

2. As proposed by the applicant in a September 30, 1985 letter, the tower shall be restricted to the use of standard red lights only. No other color lights shall be installed or illuminated and no strobe lights shall be installed or illuminated.

As proposed by the applicant in a September 30, 1985 letter, should the FAA require any other type of lighting system on the tower, the tower shall not be built. If after the tower is constructed, the FAA requires the addition of any other type of lighting system, the owner shall decrease the height of the tower to a level which would be approved for red lighting or remove the tower completely.

3. As proposed by the applicant in a September 4, 1985 letter, the existing tower, all buildings, structures and transmission facilities presently located at 580 Deercliff Road will be completely dismantled and removed from the site within 90 days of the time when broadcasting operations begin from the new tower. Further, all pavement and debris will be removed from the 580 Deercliff Road site and the disturbed area will be loamed and seeded. Prior to the issuance of any building permit to construct any portion of the tower or building, a cash bond or letter of credit in a form acceptable to the Town Attorney and in an amount acceptable to the Town Engineer shall be submitted. The Town Engineer shall determine an amount sufficient to cover all costs associated with the work required by this condition. Failure of the owner to strictly adhere to this condition will be considered a violation of this permit, and will result in appropriate enforcement action by the Town to whatever degree is necessary to eliminate the violation. This condition shall be recorded on the land records with reference to 580 Deercliff Road.

4. The building will contain no living quarters or studio facilities. No employees shall be employed at the site on a daily basis. Except for unusual occasions, such as the construction period and periods of replacement, repair or maintenance of facilities and equipment, only occasional visits by employees shall be permitted.

5. Prior to the issuance of a building permit, construction plans for the tower shall be submitted to the Town Engineer by a structural engineer. Upon completion of the tower and prior to any broadcasting or transmission, the Town Engineer shall select an independent structural engineer who shall, at the expense of the owner, conduct an inspection and structural evaluation of the tower and submit a report to the Town Engineer.

6. Noise levels from the tower and equipment, as measured at any point on the property line of the nearest abutting residence, shall not exceed the maximum allowable noise level for commercial and industrial uses at residential zone boundaries as stated in Section V of the Avon Zoning Regulations. The owner shall provide to the Town Engineer a report showing acoustic readings taken at a time when the transmission equipment, cooling equipment and all other equipment operated during normal broadcasting is in full operation. Noise levels in excess of the prescribed standards shall be considered a violation of this permit and shall require zoning enforcement action by the Town, to whatever degree is necessary to elminate the violation.

7. As recommended by the Town Health Director, a maximum power density level is established at 0.01 mW (or 10μW) per square centimeter which cannot be exceeded at any frequency by any radiation source on the tower or building or equipment on the site, singly or in combination with other sources on the tower, as measured at the nearest part of the nearest abutting residential property.

   The owner shall submit reports of field measurements of this radiation level in order to verify compliance with this condition. An initial report is required within 30 days after the transmission facility begins operation, and subsequent reports shall be filed with the Town on a quarterly basis.

   Failure to file the required reports shall be considered a violation of this permit and shall require zoning enforcement action by the Town.

   Measurements in excess of the established level shall be considered a violation and shall require zoning enforcement action by the Town to whatever degree necessary to eliminate the violation.

8. The owner shall provide from beginning of construction forward a convenient means of access acceptable to the Chief of Police. That access shall allow police, fire, ambulance and other emergency vehicles to drive up to the building and tower base. It shall also allow police and fire personnel and other emergency personnel access to all parts of the building, tower base and guy anchors.

9. All deliveries to the site of materials and equipment associated with construction shall occur between 9:00 AM and 4:00 PM on Mondays through Fridays which are not legal holidays in order not to conflict with heavy traffic. All construction work shall occur between the hours of 7:00 AM and 5:00 PM on the same days, so as not to unduly inconvenience neighbors.

10. The owner shall provide reasonable space on the tower and in the building for such communications equipment that the Town determines is appropriate for the public safety of the residents.

11. These approvals shall take effect upon December 1, 1985, unless before that date the Town Attorney notifies the Commission that one of the above conditions is illegal or unenforceable.

Please note, additionally, that prior to your Special Exception Applications (App. #1430 and #1431) becoming effective, a certified copy must be filed with the Town Clerk. The filing fee is $5 per page. Please fill in the enclosed form and return it to this office for the Chairman's signature.

Upon compliance with the above conditions, the Chairman of the Planning and Zoning Commission has been authorized to sign the mylar maps for filing. The mylar maps must be signed and on file prior to the issuance of any building permits for the above construction.

Very truly yours,

Elizabeth P. Dennis, Clerk
Planning and Zoning Commission

cc: Mark Oland, Esq.
William Richter
Robert C. Hunt, Jr., Esq.

Enclosure