

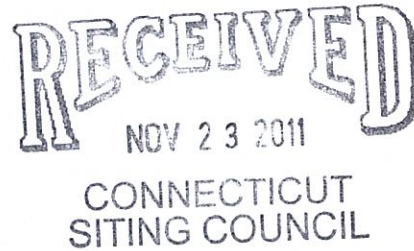


New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

HAND DELIVERED

November 23, 2011



Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 1 Butternut Hollow Road Greenwich, CT (owner Connecticut State Police).

Dear Ms. Roberts:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile ("GSM") communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, LTE will utilize additional radio frequencies newly-licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 463-5511 with questions concerning this matter. Thank you for your consideration.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Culp', with a stylized flourish at the end.

Douglas L. Culp
Real Estate Consultant

Attachments

NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification

1 Butternut Hollow Road Greenwich, CT
Site Number CT2129
Exempt Mod

Tower Owner/Manager: Connecticut State Police

Equipment configuration: Monopole

Current and/or approved: Six PowerWave P7770 antennas @ 150 ft
Twelve TMA's @ 150 ft
Eight runs 1 5/8 inch coax to 150 ft
Equipment Shelter

Planned Modifications: Retain existing PowerWave Antenna's and TMA's @ 150 ft
Retain all Coax Cabling
Install three PowerWave P65-16 antennas or equivalent @ 150 ft
Install six remote radio heads and surge arrestor @ 150 ft
Install one fiber and two DC power cables to 150 ft

Power Density:

Worst-case calculations for existing wireless operations at the site, using standard parameters for other carriers, indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the Tower, of approximately 56.0% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 57.7% of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							44.64
AT&T UMTS	148	1900 Band	1	500	0.0082	1.0000	0.82
AT&T UMTS	148	800 Band	1	500	0.0082	0.5867	1.40
AT&T GSM	148	800Band	6	296	0.0292	0.5867	4.97
AT&T GSM	148	1900 Band	6	427	0.0421	1.0000	4.21
Total							56.0%

* Data for other users are from Siting Council records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							44.64
AT&T UMTS	148	800 Band	1	500	0.0082	0.5867	1.40
AT&T UMTS	148	1900 Band	1	500	0.0082	1.0000	0.82
AT&T GSM	148	880 - 894	6	296	0.0292	0.5867	4.97
AT&T GSM	148	1900 Band	6	427	0.0421	1.0000	4.21
AT&T LTE	148	740 - 746	1	500	0.0082	0.4933	1.66
Total							57.7%

* Data for other users are from Siting Council records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (URS dated 11-16-11).

**DETAILED STRUCTURAL ANALYSIS AND
EVALUATION OF 180' SELF SUPPORTING
LATTICE TOWER WITH STACK-N-BOLT
SYSTEM AND FOUNDATION FOR NEW
ANTENNA ARRANGEMENT**

Connecticut State Police
Butternut Hollow Road
Greenwich, Connecticut
AT&T Site No.: 2129

RECEIVED
NOV 23 2011
CONNECTICUT
SITING COUNCIL

prepared for



AT&T Mobility

500 Enterprise
Drive, Suite 3A
Rocky Hill, CT 06067

prepared by



URS CORPORATION
500 ENTERPRISE DRIVE, SUITE 3B
ROCKY HILL, CT 06067
TEL. 860-529-8882

36924454.00000
SAI-067 (Rev 2)

November 16, 2011

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1. EXECUTIVE SUMMARY

This report summarizes the structural analysis and evaluation of the 180' lattice tower located off of Butternut Hollow Road in Greenwich, Connecticut. The analysis was conducted in accordance with the 2005 Connecticut State Building Code and the TIA/EIA-222-F standard for a wind velocity of 90 mph (fastest mile) and 90 mph (fastest mile) concurrent with ½" ice. The antenna loading considered in the analysis consists of all existing and proposed antennas, transmission lines, and ancillary items as outlined in the Introduction of this report. The proposed AT&T modification is listed below:

Proposed Antenna and Mount	Carrier	Antenna Center Elevation
Install		
(3) Powerwave P65-16-XLH-RR (6) Ericsson RRU (1) Raycap Surge Suppressor (1) Fiber Optic Cable (2) DC Cables	AT&T (Proposed)	150'

The results of this analysis indicate that the tower structure, is in compliance with the proposed loading conditions. **The tower and its foundation are considered structurally adequate under the wind load specified above and the existing and proposed antenna loadings.** The twist and sway of the tower is considered within the Connecticut State Police requirements.

This analysis is based on:

- 1) The tower structure's theoretical capacity not including any assessment of the condition of the tower.
- 2) Member sizes and tower geometry of the outer tower taken from manufacturers drawings prepared by Rohn Industries, Inc., file number 28325, dated December 28, 1992.
- 3) Member sizes and tower geometry of the inner tower taken from design calculations and drawings prepared by Towertek Industries Inc., signed and sealed May 9, 2002.
- 4) Foundation modifications taken from drawings prepared by Walker Engineering Incorporated, Job number 0206-237R2, signed and sealed November 26, 2002.
- 5) Previous structural analysis performed by URS Corporation, project number VZ5-041 / 36931188, signed and sealed August 2, 2010.
- 6) Tower Mapping and Inventory by Northeast Towers, Inc., climbed November 10, 2011.
- 7) Antenna inventory as specified in section 2 and 6 of this report.
- 8) Coax cable orientation as specified in section 6 of this report.

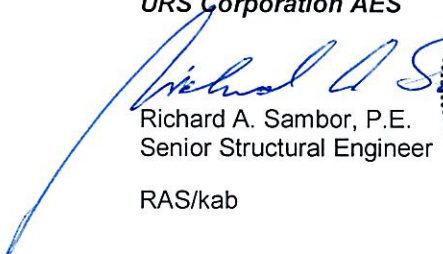
1. **EXECUTIVE SUMMARY** *(continued)*

This report is only valid as per the assumptions and data utilized in this report for antenna inventory, mounts and associated cables. The contractor shall field verify the antenna and mount configuration used, as well as the physical condition of the tower members and connections. The engineer is to be notified in writing immediately if any of the information in the Structural Analysis is found to be other than specified.

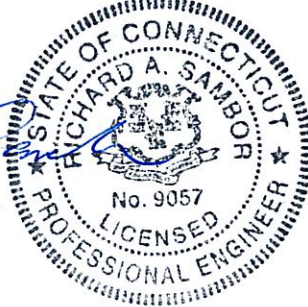
If you should have any questions, please call.

Sincerely,

URS Corporation AES


Richard A. Sambor, P.E.
Senior Structural Engineer

RAS/kab



2. INTRODUCTION

The subject tower is located off of Butternut Hollow Road in Greenwich, Connecticut. The structure is a self-supporting three-legged 180' steel tapered lattice tower manufactured by Rohn Industries with a Stack-N-Bolt system installed inside the original tower, designed by TowerTek.

The existing structure supports numerous communication antennas. The inventory is summarized below:

Antenna Type	Carrier	Mount	Centerline Elevation / Leg	Cable
(1) 20' Dipole	Unknown (existing)	3' Stand-Off	190 / C	(2) 7/8"
(1) 9' Omni (1) TMA	Unknown (existing)	3' Stand-Off	185 / A	(1) 7/8" (2) 1-1/4"
(3) 6' HP Dish	CSP (reserved)	Dish Mount	180 / ABC	N/A
6' HP Dish with Radome	CSP (existing)	Dish Mount	176 / A	(1) EW63
(2) Scala OGT9-806N (1 upright & 1 inverted) (1) TMA	CSP (existing)	3' Stand-Off	176 / B	(1) 1-5/8" (2) 1/2" (2) 3/8"
(2) Scala OGT9-806N (1 upright & 1 inverted)	CSP (existing)	3' Stand-Off	176 / C	(2) 1-5/8"
4' Dipole	Unknown (existing)	<i>Shared with Above (Omni @ 185)</i>	170 / A	(1) 7/8"
5' Dish	Greenwich PD (existing)	Dish Mount	170 / B	(1) EW90
(1) 10"x4.6"x4" Panel (1) TMA	Unknown (existing)	3' Arm	169 / A	(2) 1/2" (1) 7/8"
DB-586-Y	Unknown (existing)	Leg Mounted	167 / A	(1) 7/8"
Gabriel GLF6-940	NU (existing)	Dish Mount	163 / A	(1) EW90
(2) 10"x4.6"x4" Panel	Unknown (existing)	(2) 3' Arms	159 / AB	(2) 1-1/4"
(6) Powerwave 7770 (12) TMAs	AT&T (existing)	Side Arm	150 / ABC	(12) 1-5/8"
(3) Powerwave P65-16- XLH-RR (6) Ericsson RRU (1) Raycap Surge Suppressor	AT&T (Proposed)	<i>Shared with Above</i>	150 / ABC	(1) Fiber Optic Cable (2) DC Cables
(1) 6' Omni	Unknown (existing)	3' Arm	143 / A	(1) 7/8"
(1) 5' Dipole	Unknown (existing)	Leg Mounted	139 / C	(1) 1-5/8"
(1) 8' Omni	Unknown (existing)	<i>Shared with Below (Verizon array @ 130)</i>	137 / B	(1) 7/8"
(3) EMS RR901700DP (6) TMAs	T-Mobile (existing)	Face Mounted	137 / ABC	(6) 1-5/8"
(6) DB 844	Verizon (existing)	Boom Gate	130 / ABC	(12) 1-5/8"
(2) P65-16-XL-2 (1) LNX-6514DS-T4M (3) MG D3-800T0	Verizon (proposed)	Boom Gate (shared with above)	130 / ABC	<i>Shared with above</i>

Antenna Type	Carrier	Mount	Centerline Elevation / Leg	Cable
(6) DB 980H90E-M	Sprint (existing)	Boom Gate	117 / ABC	(6) 1-5/8"
(1) 12' Omni	Unknown (existing)	3' Arm	115 / A	(1) 7/8"
(1) DB586-Y	Unknown (existing)	3' Arm	105 / A	(1) 7/8"
(1) 6' Omni	Unknown (existing)	3' Arm	85 / A	(1) 7/8"
(1) DB212-C	Unknown (existing)	Leg Mounted	80 / C	(1) 7/8"
GPS	Sprint (existing)	Leg Mounted	62 / B	(1) 1/2"
GPS	Verizon (existing)	Leg Mounted	60 / C	(1) 1/2"
(1) 3' Yagi	Unknown (existing)	Leg Mounted	55 / A	(1) 7/8"

This structural analysis and evaluation of the communications tower was performed by URS Corporation (URS) for AT&T. The purpose of this analysis was to investigate the structural integrity of the existing tower with its existing and proposed antenna loads. The analysis was also conducted to evaluate twist (rotation), sway (deflection), and stress on the tower.

3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS

The structural analysis was done in accordance with the 2005 Connecticut State Building Code, TIA/EIA-222-F—Structural Standard for Steel Antenna Towers and Antenna Supporting Structures, and the American Institute of Steel Construction (AISC) Manual of Steel Construction—Allowable Stress Design (ASD).

The analysis was conducted using PLS-Tower. Two load conditions were evaluated as shown below which were compared to allowable stresses according to AISC and TIA/EIA.

Load Condition 1 = 90 mph (fastest mile) Wind Load + Tower Dead Load

Load Condition 2 = 90 mph (fastest mile) Wind Load (with ice) + Ice Load + Tower Dead Load

The TIA/EIA standard permits one-third increase in allowable stresses for towers and monopoles less than 700 feet tall. For purposes of this analysis, in computing the load capacity the allowable stresses of the tower members were increased by one-third.

4. FINDINGS AND EVALUATION

The stresses on the tower structure were evaluated to compare with the allowable stress in accordance with AISC. The results of the analysis indicate that the tower structure is in compliance with the proposed loading conditions. The anchor bolts and foundation were found to be within allowable limits.

Component	Allowable	Actual
Twist	0.75°	0.10°
Sway		0.75°

Note: During the installation of the Stack-N-Bolt system redundant members were installed which will give additional stiffness to the tower and reduce the twist and sway to a level below the allowable of 0.75 degrees. These members are internal bracing members which connect the new horizontal members.

Component	Component Size	Controlling Member	Stress (% Capacity)	Pass/Fail
Rohn Diagonal	L2x2x3/16	Rohn-DB61	98.21	Pass
Rohn Leg	Pipe6EH	Rohn-LH2P	91.59	Pass
Rohn Horizontal	L1.75x1.75x3/16	RohnH12	13.25	Pass
SNB Diagonal	L5x5x5/8	SNB-DI11	70.14	Pass
SNB Leg	Pipe8XS	SNB-LH2P	92.32	Pass
SNB Horizontal	Pipe4x0.494	SNB-H91	5.76	Pass
Tower Connection	N/A	3/4" Bolt	73.3	Pass
Foundation	36.5' Square	Overturning Moment	50.6	Pass

5. CONCLUSIONS

The results of the analysis indicate that the tower structure is not overstressed with the proposed loading conditions. **The tower and foundation are considered structurally adequate under the TIA/EIA-222-F wind load specified above and the existing and proposed antenna loadings.** The calculated tower sway is 0.75 degrees, and the tower twist is 0.10 degrees. These are above the Connecticut State Police specification of 0.75 degrees for twist and sway, however there are redundant members in the tower not utilized in the analysis which will give additional stiffness and will reduce the twist and sway values below the Connecticut State Police specification.

Limitations/Assumptions:

This report is based on the following:

- A. Tower is properly installed and maintained.
- B. All members and their geometry are as specified in the original Project File and are in good condition.
- C. All required members are in place.
- D. All bolts are in place and are properly tightened.
- E. Tower is in plumb condition.
- F. All member protective coatings are in good condition.
- G. All tower members were properly designed, detailed, fabricated, installed, and have been properly maintained since erection.

URS is not responsible for any modifications completed prior to or hereafter in which URS is not or was not directly involved. Modifications include but are not limited to:

- A. Adding antennas
- B. Removing/replacing antennas
- C. Adding coaxial cables

URS hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact URS. URS disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Ongoing and Periodic Inspection and Maintenance:

After the Contractor has successfully completed the installation and the work has been accepted, the owner will be responsible for the ongoing and periodic inspection and maintenance of the tower.

The owner shall refer to TIA/EIA-222-F for recommendations for maintenance and inspection. The frequency of the inspection and maintenance intervals is to be determined by the owner based upon actual site and environmental conditions. It is recommended that a complete and thorough inspection of the entire tower structural system be performed at least yearly and more frequently as conditions warrant. According to TIA/EIA-222-F section 14.1, Note 1: It is recommended that the structure be inspected after severe wind and/or ice storms or other extreme loading conditions.

6. DRAWINGS AND DATA

PLS-TOWER INPUT / OUTPUT SUMMARY

Project Name : VZ5-041 Greenwich, CT
Project Notes: Butternut Hollow
Project File : c:\p1stower\sa1-067 (rev 2)\butternut hollow greenwich, ct.tow
Date Run : 8:15:01 AM Wednesday, November 16, 2011
by : Tower Version 10.62
Licensed to : URS Connecticut

Successfully performed nonlinear analysis

Unusual number of fixed joints found: 6. Towers normally have from between 1 and 4 fixed joints. ??
Linear appearance "1-5/8" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "1/2" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "7/8" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "1-1/4" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "elliptical" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "3/8" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "Optic Fiber Cable" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appearance "DC Cable" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
The model has 9 warnings. ??

Member check option: TIA/EIA 222-F
Connection rupture check: ASCE 10
Crossing diagonal check: ASCE 10 [Alternate Unsupported RJOUT = 1]
Loads from file: c:\p1stower\sa1-067 (rev 2)\sa1-067.eia

*** Analysis Results:

Maximum element usage is 99.21% for Angle "Rohn-DB61" in load case "W+I 0 deg"

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. (kips)	Trans. (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Bending Moment (ft-k)	Found. Usage
W+I -90 deg RohnJ1		5.16	2.42	22.29	5.70	-0.00	-0.00	-0.00	0.00
W+I -90 deg SNB-J1		11.52	5.95	18.84	12.96	-0.00	-0.00	-0.00	0.00
W+I -90 deg RohnJ2		3.19	8.10	218.99	8.71	-0.00	-0.00	-0.00	0.00
W+I -90 deg SNB-J2		-8.30	16.79	-174.31	18.73	-0.00	-0.00	-0.00	0.00
W+I -90 deg RohnJ3		4.61	14.11	310.45	14.85	-0.00	-0.00	-0.00	0.00
W+I -90 deg SNB-J3		-16.18	33.80	-272.43	37.48	-0.00	-0.00	-0.00	0.00
W+I -60 deg RohnJ1		-2.69	1.96	134.87	3.33	-0.00	-0.00	-0.00	0.00
W+I -60 deg SNB-J1		3.35	5.17	185.72	6.16	-0.00	-0.00	-0.00	0.00
W+I -60 deg RohnJ2		-0.66	3.49	135.11	3.55	-0.00	-0.00	-0.00	0.00
W+I -60 deg SNB-J2		-10.15	17.95	-203.01	20.62	-0.00	-0.00	-0.00	0.00
W+I -60 deg RohnJ3		-2.82	5.49	185.97	6.17	-0.00	-0.00	-0.00	0.00
W+I -60 deg SNB-J3		-20.52	35.55	-314.82	41.05	-0.00	-0.00	-0.00	0.00
W+I 0 deg RohnJ1		-11.20	-0.31	254.30	11.21	-0.00	-0.00	-0.00	0.00
W+I 0 deg SNB-J1		19.46	-0.01	363.24	19.46	-0.00	-0.00	-0.00	0.00
W+I 0 deg RohnJ2		-8.75	-10.22	-93.54	13.45	-0.00	-0.00	-0.00	0.00
W+I 0 deg SNB-J2		8.21	10.53	-93.80	13.35	-0.00	-0.00	-0.00	0.00
W+I 0 deg RohnJ3		-18.01	-20.88	-153.05	27.42	-0.00	-0.00	-0.00	0.00
W+I 0 deg SNB-J3		17.99	20.89	-153.32	27.41	-0.00	-0.00	-0.00	0.00
W+I 60 deg RohnJ1		-2.69	-2.27	134.89	3.52	-0.00	-0.00	-0.00	0.00
W+I 60 deg SNB-J1		3.35	-5.19	185.71	6.17	-0.00	-0.00	-0.00	0.00
W+I 60 deg RohnJ2		-10.43	-17.79	-202.77	20.62	-0.00	-0.00	-0.00	0.00
W+I 60 deg SNB-J2		-0.39	-3.33	134.86	3.35	-0.00	-0.00	-0.00	0.00
W+I 60 deg RohnJ3		-20.53	-35.55	-314.54	41.05	-0.00	-0.00	-0.00	0.00
W+I 60 deg SNB-J3		-2.81	-5.49	185.69	6.17	-0.00	-0.00	-0.00	0.00
W+I 90 deg RohnJ1		5.16	-2.42	22.29	5.70	-0.00	-0.00	-0.00	0.00
W+I 90 deg SNB-J1		11.52	-5.96	18.84	12.96	-0.00	-0.00	-0.00	0.00
W+I 90 deg RohnJ2		-8.30	-16.79	-174.07	18.73	-0.00	-0.00	-0.00	0.00
W+I 90 deg SNB-J2		3.19	-8.10	218.75	8.70	-0.00	-0.00	-0.00	0.00
W+I 90 deg RohnJ3		-16.18	-33.80	-272.14	37.48	-0.00	-0.00	-0.00	0.00
W+I 90 deg SNB-J3		4.61	-14.11	310.16	14.85	-0.00	-0.00	-0.00	0.00
DL + Ice Only RohnJ1		5.02	-0.00	22.30	5.02	-0.00	-0.00	-0.00	0.00
DL + Ice Only SNB-J1		11.38	-0.00	18.83	11.38	-0.00	-0.00	-0.00	0.00
DL + Ice Only RohnJ2		-2.51	-4.34	22.52	5.01	-0.00	-0.00	-0.00	0.00
DL + Ice Only SNB-J2		-2.51	4.34	22.28	5.02	-0.00	-0.00	-0.00	0.00
DL + Ice Only RohnJ3		-5.69	-9.86	19.09	11.38	-0.00	-0.00	-0.00	0.00
DL + Ice Only SNB-J3		-5.69	9.86	18.80	11.38	-0.00	-0.00	-0.00	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

URS Connecticut - butternut hollow greenwich, ct

Load Case Support	Origin Joint	Leg Force In Member	Leg Dir. (kips)	Residual Shear (kips)	Residual Horizontal (kips)	Residual Vertical (kips)	Shear (kips)	Horizontal Force (kips)	Vertical Force (kips)	Total Force (kips)	Total Shear (kips)	Total Horizontal Force (kips)	Total Vertical Force (kips)
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	22.067	6.502	6.507	-2.420	-5.040	5.16	2.42	22.29	-5.040	5.16	2.42
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	18.374	13.618	13.626	-5.951	-12.258	11.52	5.95	18.84	-12.258	11.52	5.95
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	219.158	1.291	1.291	-0.613	1.136	3.19	8.10	218.99	1.136	3.19	8.10
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	174.907	11.862	11.871	-10.871	4.856	-8.30	16.79	174.11	4.856	-8.30	16.79
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	310.780	3.835	3.837	-3.533	1.495	4.61	14.11	310.45	1.495	4.61	14.11
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	273.684	26.800	26.800	-24.500	10.818	-16.18	33.80	272.43	10.818	-16.18	33.80
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	134.875	3.282	3.284	-1.955	-2.638	-2.69	1.96	134.87	-2.638	-2.69	1.96
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	185.704	6.511	6.513	-5.173	-3.557	-3.25	5.17	185.72	-3.557	-3.25	5.17
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	135.106	3.512	3.513	-1.135	3.325	-0.66	3.49	135.11	3.325	-0.66	3.49
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	203.664	12.593	12.603	-11.004	6.142	-10.15	17.95	203.01	6.142	-10.15	17.95
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	185.955	6.530	6.531	-0.845	6.477	-2.82	5.49	185.97	6.477	-2.82	5.49
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	216.188	28.638	28.660	-24.822	14.327	-20.52	35.55	214.82	14.327	-20.52	35.55
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	254.544	1.197	1.198	0.307	1.158	-11.20	-0.31	254.30	1.158	-11.20	-0.31
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	363.724	5.167	5.171	0.012	5.171	-19.46	-0.01	363.24	5.171	-19.46	-0.01
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	93.986	9.839	9.846	7.019	6.905	-8.75	-10.22	93.54	6.905	-8.75	-10.22
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	94.247	9.690	9.697	7.326	6.353	-8.21	10.53	93.80	6.353	-8.21	10.53
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	153.988	21.528	21.543	15.467	14.996	-18.01	-20.68	153.05	14.996	-18.01	-20.68
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	154.259	21.507	21.523	-15.461	14.973	-17.99	20.69	153.32	14.973	-17.99	20.69
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	134.888	3.478	3.480	2.267	-2.640	-2.69	2.27	134.89	-2.640	-2.69	2.27
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	185.696	6.523	6.525	10.849	-3.560	-3.35	-5.19	185.71	-3.560	-3.35	-5.19
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	203.425	12.597	12.607	10.849	6.421	-10.43	-17.79	202.77	6.421	-10.43	-17.79
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	134.858	3.310	3.312	-1.283	3.053	-0.39	-3.33	134.86	3.053	-0.39	-3.33
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	22.068	6.515	6.516	-0.838	6.462	-2.81	-5.49	22.29	6.462	-2.81	-5.49
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	18.373	13.619	13.627	2.422	-6.039	5.16	-2.42	18.84	-6.039	5.16	-2.42
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	174.668	11.867	11.876	10.837	-12.257	11.52	-5.96	174.07	-12.257	11.52	-5.96
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	218.922	1.292	1.292	0.618	1.134	3.19	-8.10	218.75	1.134	3.19	-8.10
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	273.403	26.791	26.812	24.530	10.822	-16.18	-33.80	272.14	10.822	-16.18	-33.80
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	310.496	3.843	3.844	3.593	1.491	4.61	-14.11	310.16	1.491	4.61	-14.11
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	22.089	5.893	5.897	0.001	-5.897	5.02	-0.00	22.30	-5.897	5.02	-0.00
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	18.369	12.115	12.125	0.002	-12.125	11.39	-0.00	18.83	-12.125	11.39	-0.00
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	22.308	5.897	5.902	5.111	2.951	-2.51	-4.34	22.52	2.951	-2.51	-4.34
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	22.065	5.892	5.897	-5.106	2.949	-2.51	4.34	22.28	2.949	-2.51	4.34
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	18.631	12.126	12.135	10.509	6.067	-5.69	-9.86	19.09	6.067	-5.69	-9.86
W+I -90 deg	RohnJP RohnIAS	Rohn-L12P	18.342	12.114	12.124	-10.498	6.063	-5.69	9.86	18.80	6.063	-5.69	9.86

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Member	Top Width (ft)	Bottom Width (ft)	Gross Area (ft ²)	Face Adjust Factor	Dead Load Factor
A	180.000	160.000	30	99	7.50	8.87	163.75	0.9000
B	160.000	140.000	30	87	8.87	10.23	191.05	0.9000
C	140.000	120.000	24	66	10.23	11.60	218.31	0.9000
D	120.000	100.000	24	66	11.60	12.96	245.54	0.9000
E	100.000	80.000	24	66	12.96	14.32	272.78	0.9000
F	80.000	60.000	18	45	14.32	15.68	300.04	0.9000
G	60.000	40.000	18	45	15.68	17.05	327.29	0.9000
H	40.000	20.000	18	45	17.05	18.41	354.57	0.9000
I	20.000	0.000	18	39	18.41	19.78	381.92	0.9000

*** Overall summary for all load cases - Usage = Maximum Stress / Allowable Stress
Printed capacities do not include EIA allowable stress increase for wind load cases.
Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage
which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Steel Strength (ksi)	Max Usage (%)	Max In Comp. (%)	Comp. Force (kips)	Comp. Control Load Case	Comp. Capacity (kips)	L/R Comp. Capacity (kips)	Comp. Conn. Bearing Capacity (kips)	Conn. Member Capacity (kips)	L/R Length (ft)	No. Bolts Comp.	No. Bolts Comp.
Rohn-D1	Rohn Diagonal 1	SAE 1.75X1.75X0.1875	36.0	80.39	80.39	Rohn-DA71	-3.221 W+I 0 deg	3.005	16.200	8.156	0.500	0.500	175.53	10.034

URS Connecticut - butternut hollow greenwich, ct

Group Label	Group Desc.	Angle	Size	Steel Strength	Max Usage	Max In	Max Tens.	Tension Control	Tension Member	Section Capacity	Net Tens. Capacity	Shear Capacity	Conn. Tens. Capacity	Bearing Capacity	Rupture Tens. Capacity	Length No. Of	No. Of Holes	Hole Diameter
Rohn-D2	Rohn Diagonal 2	SAE	2.5X2.5X0.1875	36.0	86.21	98.21			Rohn-D861	-5.008 W+I 0 deg	3.824	16.200	8.156	0.500	0.500	166.50	10.934	4
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	36.0	86.22	98.22			Rohn-D862	-6.070W+I -90 deg	5.280	16.200	8.156	0.500	0.500	159.72	13.177	4
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	36.0	86.33	86.33			Rohn-D861	-6.635 W+I 0 deg	5.764	16.200	10.875	0.500	0.500	175.58	14.568	4
Rohn-D5	Rohn Diagonal 5	SAE	3.5X3.5X0.25	50.0	61.39	61.39			Rohn-D861	-7.031W+I 90 deg	9.463	16.200	12.187	0.500	0.500	157.99	15.589	4
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	50.0	61.60	61.60			Rohn-D861	-7.771W+I 90 deg	11.259	16.200	12.187	0.500	0.500	163.31	18.889	4
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	50.0	61.77	61.77			Rohn-D861	-9.273 W+I 0 deg	17.718	16.200	12.187	0.500	0.500	160.41	21.254	4
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	50.0	15.37	15.37			Rohn-L84P	-14.060 W+I 0 deg	67.718	0.000	0.000	1.000	1.000	52.67	5.004	1
Rohn-L2	Rohn Leg 2	Pipe	Pipe3EH	50.0	35.32	35.32			Rohn-L84P	-40.473 W+I 0 deg	85.952	0.000	0.000	1.000	1.000	45.84	5.004	1
Rohn-L3	Rohn Leg 3	Pipe	Pipe3EH	50.0	55.88	55.88			Rohn-L84P	-73.122 W+I 0 deg	98.153	0.000	0.000	1.000	1.000	54.04	6.665	1
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	50.0	78.92	78.92			Rohn-L84P	-108.003 W+I 0 deg	102.644	0.000	0.000	1.000	1.000	42.54	6.665	1
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	50.0	71.22	71.22			Rohn-L84P	-137.404 W+I 0 deg	145.117	0.000	0.000	1.000	1.000	43.23	6.665	1
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EH	50.0	79.60	79.60			Rohn-L84P	-168.771 W+I 0 deg	159.025	0.000	0.000	1.000	1.000	54.10	10.008	1
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	50.0	91.59	91.59			Rohn-L84P	-227.299 W+I 0 deg	186.124	0.000	0.000	1.000	1.000	54.59	10.008	1
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EH	50.0	71.74	71.74			Rohn-L84P	-253.018 W+I 0 deg	253.910	0.000	0.000	1.000	1.000	40.57	10.008	1
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	36.0	13.25	13.25			Rohn-H12	-0.949W+I 60 deg	5.372	0.000	0.000	0.500	0.500	131.28	7.505	4
Rohn-D1	Rohn Diagonal 1	SAE	2X2X0.3125	36.0	24.74	24.74			Rohn-D862	-2.057W+I -90 deg	13.207	16.200	13.594	0.500	0.500	111.38	7.240	1
Rohn-D2	Rohn Diagonal 2	SAE	2.5X2.5X0.3125	36.0	24.74	24.74			Rohn-D862	-7.400W+I -90 deg	9.268	16.200	10.875	0.500	0.500	102.92	8.011	4
Rohn-D3	Rohn Diagonal 3	SAE	3X3X0.5	36.0	41.27	41.27			Rohn-D862	-8.913W+I -90 deg	11.119	16.200	13.594	0.500	0.500	140.03	11.412	4
Rohn-D4	Rohn Diagonal 4	SAE	4X4X0.5	36.0	27.59	26.80			Rohn-D862	-8.575W+I 90 deg	27.855	16.200	21.750	0.500	0.500	121.07	11.784	4
Rohn-D5	Rohn Diagonal 5	SAE	4X4X0.5	36.0	37.59	35.35			Rohn-D862	-11.313W+I 90 deg	39.016	24.000	26.100	0.500	0.500	119.15	15.529	4
Rohn-D6	Rohn Diagonal 6	SAE	4X4X0.625	36.0	70.14	70.14			Rohn-D862	-22.444W+I 90 deg	66.757	24.000	32.625	0.500	0.500	132.03	17.142	4
Rohn-D7	Rohn Diagonal 7	SAE	5X5X0.625	36.0	12.71	12.71			Rohn-D862	-12.738 W+I 0 deg	75.146	0.000	0.000	1.000	1.000	55.09	5.004	1
Rohn-L1	Rohn Leg 1	Pipe	P4-494	36.0	50.51	50.51			Rohn-L84P	-74.342 W+I 0 deg	110.397	0.000	0.000	1.000	1.000	56.23	6.665	1
Rohn-L2	Rohn Leg 2	Pipe	Pipe5EH	36.0	81.46	81.46			Rohn-L84P	-117.585 W+I 0 deg	108.266	0.000	0.000	1.000	1.000	43.23	6.665	1
Rohn-L3	Rohn Leg 3	Pipe	Pipe5EH	36.0	81.38	81.38			Rohn-L84P	-206.494 W+I 0 deg	190.683	0.000	0.000	1.000	1.000	55.86	10.008	1
Rohn-L4	Rohn Leg 4	Pipe	Pipe6XS	36.0	92.32	92.32			Rohn-L84P	-300.178 W+I 0 deg	243.879	0.000	0.000	1.000	1.000	41.70	10.008	1
Rohn-L5	Rohn Leg 5	Pipe	Pipe6XS	36.0	84.80	84.80			Rohn-L84P	-358.937 W+I 0 deg	317.480	0.000	0.000	1.000	1.000	33.08	10.008	1
Rohn-L6	Rohn Leg 6	Pipe	Pipe10XS	36.0	0.03	0.03			Connect T1	-2.704W+I 60 deg	17202.963	0.000	0.000	1.000	1.000	2.41	2.004	1
Connect	Connect Towers	BIG	0.1X0.1X1	36.0	1.70	1.30			Rohn-H41	-1.338 W+I 0 deg	77.221	0.000	0.000	0.500	0.500	40.46	8.132	1
Rohn-H1	Rohn Horizontal 1	Pipe	P3-425	36.0	1.70	1.70			Rohn-H51	-2.479 W+I 0 deg	119.111	0.000	0.000	0.500	0.500	40.11	9.493	1
Rohn-H2	Rohn Horizontal 2	Pipe	P4-494	36.0	5.76	5.76			Rohn-H51	-5.418W+I 90 deg	6.759	16.200	16.312	0.500	0.500	173.34	11.238	4
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	36.0	60.12	60.12			Rohn-D871	-5.418W+I 90 deg	6.759	16.200	16.312	0.500	0.500	173.34	11.238	4

Group Summary (Tension Portion):

*** Maximum Stress Summary for Each Load Case

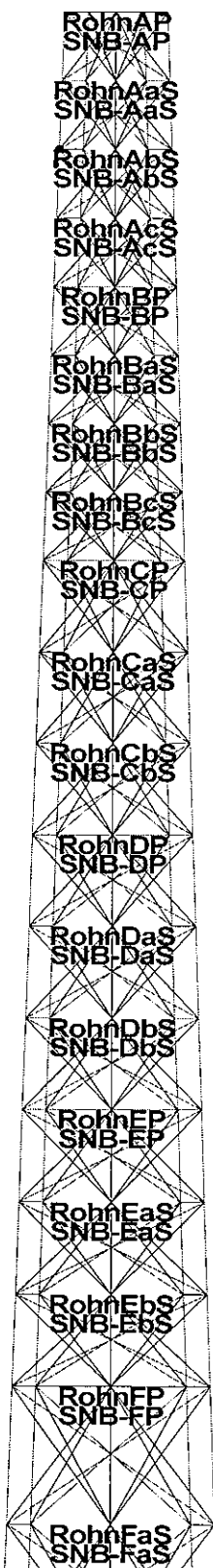
Summary of Maximum Usages by Load Case:

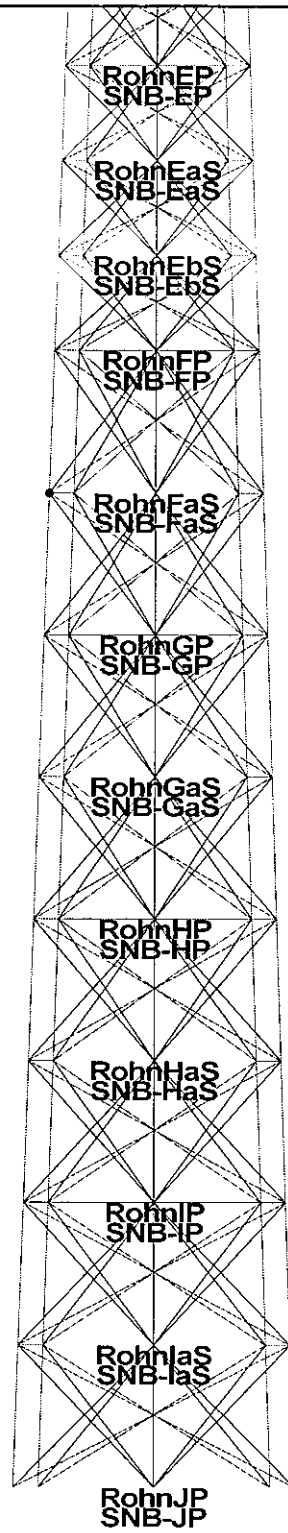
Load Case	Maximum Usage %	Element Label	Element Type
W+I -90 deg	95.44	Rohn-DB62	Angle
W+I -60 deg	84.36	Rohn-DB62	Angle
W+I 0 deg	98.21	Rohn-DB61	Angle
W+I 60 deg	83.10	Rohn-DB61	Angle
W+I 90 deg	96.17	Rohn-DB51	Angle
DL + Ice Only	30.13	SNB-D111	Angle

*** Weight of structure (lbs):
Weight of Angles*Section DLF: 62797.0
Weight of Equipment: 10485.0
Total: 73282.0

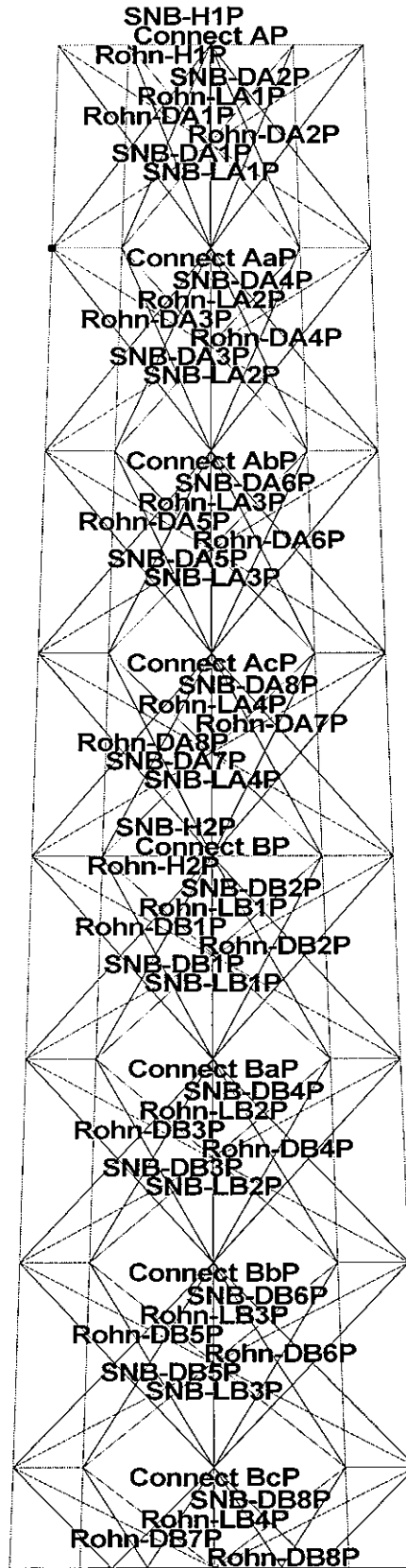
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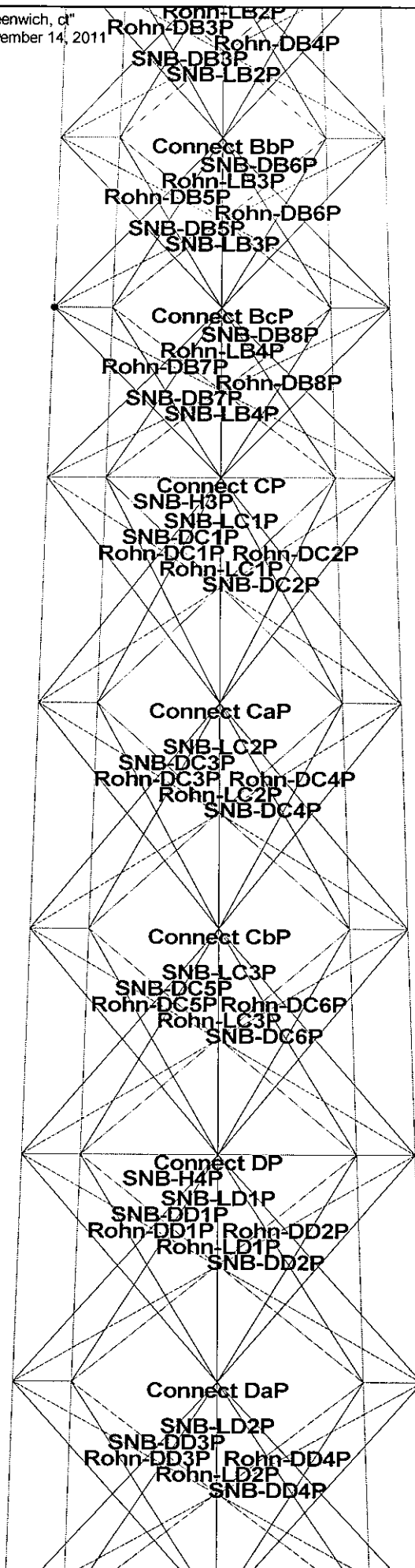
PLS-TOWER NODE LOCATIONS

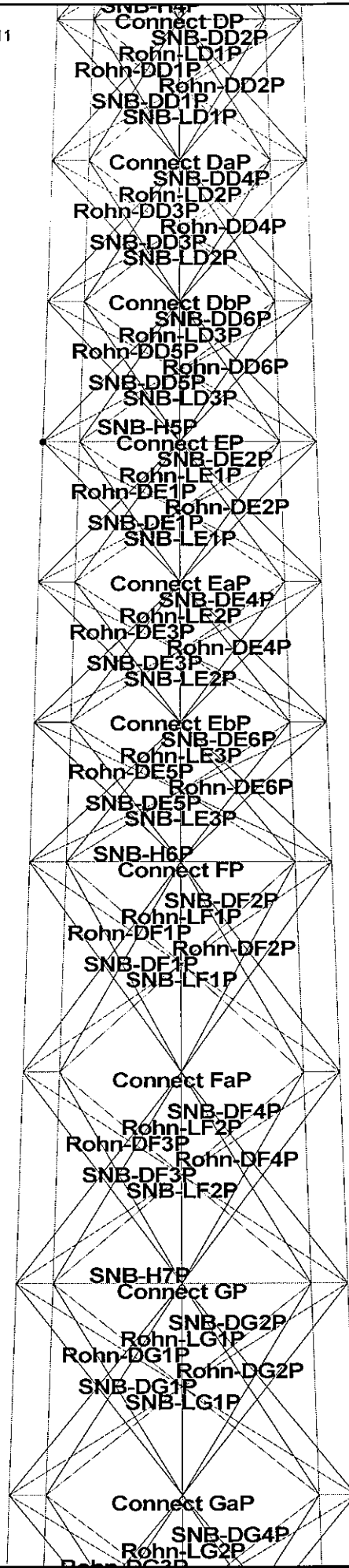


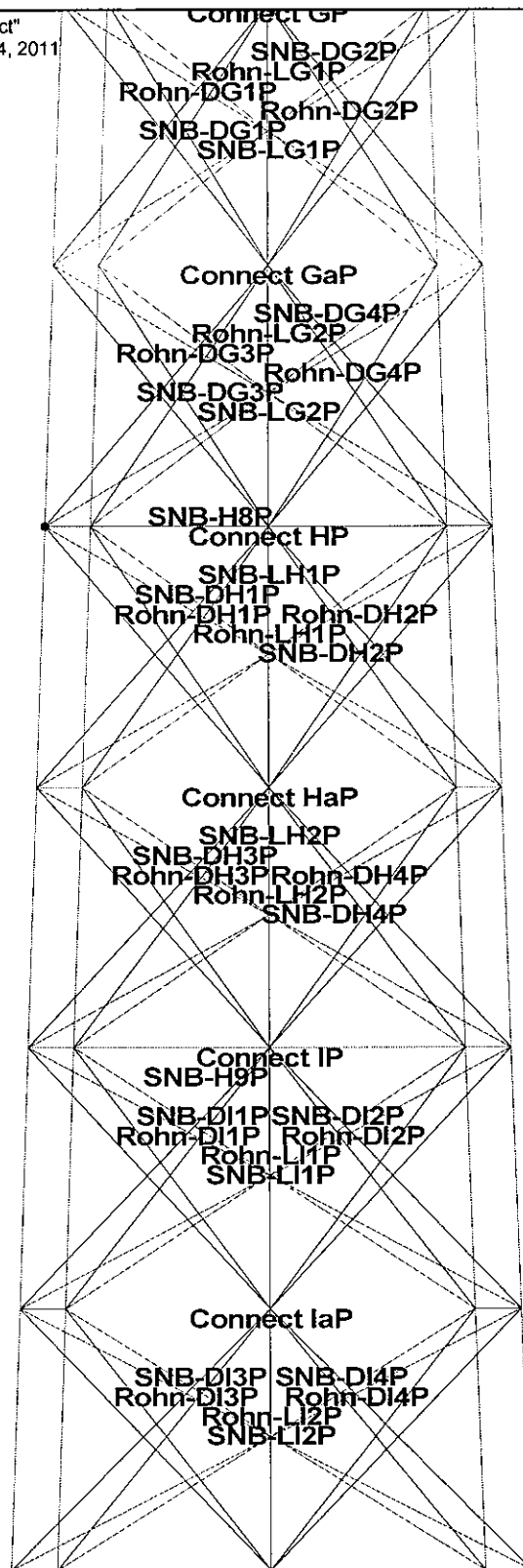


PLS-TOWER MEMBER LOCATIONS









PLS-TOWER DETAILED OUTPUT

Joint Label	Symmetry Code	Origin Joint	End Fraction	Elevation X	Disp. Y	Disp. Z	Rest.	Rest.	X Rot.	Rest.	Y Rot.	Rest.	Z Rot.	Rest.
RohnJ2	Tri-Gen 2	-5.315	9.206	20	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnJ1	Tri-Gen 1	-5.71	9.89	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
RohnJ2	Tri-Gen 2	-5.71	9.89	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
SNB-A1	Tri-Gen 1	-1.167	-2.02	180	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-A2	Tri-Gen 2	-1.167	-2.02	180	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-B1	Tri-Gen 1	-1.561	-2.703	160	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-B2	Tri-Gen 2	-1.561	-2.703	160	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-C1	Tri-Gen 1	-1.954	-3.384	140	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-C2	Tri-Gen 2	-1.954	-3.384	140	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-D1	Tri-Gen 1	-2.348	-4.066	120	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-D2	Tri-Gen 2	-2.348	-4.066	120	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-E1	Tri-Gen 1	-2.74	-4.747	100	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-E2	Tri-Gen 2	-2.74	-4.747	100	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-F1	Tri-Gen 1	-3.134	-5.428	80	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-F2	Tri-Gen 2	-3.134	-5.428	80	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-G1	Tri-Gen 1	-3.528	-6.11	60	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-G2	Tri-Gen 2	-3.528	-6.11	60	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-H1	Tri-Gen 1	-3.921	-6.791	40	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-H2	Tri-Gen 2	-3.921	-6.791	40	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-I1	Tri-Gen 1	-4.314	-7.472	20	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-I2	Tri-Gen 2	-4.314	-7.472	20	Free	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-J1	Tri-Gen 1	-4.708	-8.154	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
SNB-J2	Tri-Gen 2	-4.708	-8.154	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

Secondary Joints:

Joint Label	Symmetry Code	Origin Joint	End Fraction	Elevation X	Disp. Y	Disp. Z	Rest.	Rest.	X Rot.	Rest.	Y Rot.	Rest.	Z Rot.	Rest.
RohnA5	Tri-Symmetry	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnA6	Tri-Symmetry	RohnAP	RohnBP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnA7	Tri-Symmetry	RohnAP	RohnBP	0.75	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnA8	Tri-Symmetry	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnB5	Tri-Symmetry	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnB6	Tri-Symmetry	RohnBP	RohnCP	0.75	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnC5	Tri-Symmetry	RohnCP	RohnDP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnC6	Tri-Symmetry	RohnCP	RohnDP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnD5	Tri-Symmetry	RohnDP	RohnEP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnD6	Tri-Symmetry	RohnDP	RohnEP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnE5	Tri-Symmetry	RohnEP	RohnFP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnE6	Tri-Symmetry	RohnEP	RohnFP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnF5	Tri-Symmetry	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnF6	Tri-Symmetry	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnG5	Tri-Symmetry	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnG6	Tri-Symmetry	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnH5	Tri-Symmetry	RohnHP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnH6	Tri-Symmetry	RohnHP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-A5	Tri-Symmetry	SNB-AP	SNB-BP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-A6	Tri-Symmetry	SNB-AP	SNB-BP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-B5	Tri-Symmetry	SNB-BP	SNB-CP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-B6	Tri-Symmetry	SNB-BP	SNB-CP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-C5	Tri-Symmetry	SNB-CP	SNB-DP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-C6	Tri-Symmetry	SNB-CP	SNB-DP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-D5	Tri-Symmetry	SNB-DP	SNB-EP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-D6	Tri-Symmetry	SNB-DP	SNB-EP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-E5	Tri-Symmetry	SNB-EP	SNB-FP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-E6	Tri-Symmetry	SNB-EP	SNB-FP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-F5	Tri-Symmetry	SNB-FP	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-F6	Tri-Symmetry	SNB-FP	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-G5	Tri-Symmetry	SNB-GP	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-G6	Tri-Symmetry	SNB-GP	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-H5	Tri-Symmetry	SNB-HP	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-H6	Tri-Symmetry	SNB-HP	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-I5	Tri-Symmetry	SNB-IP	SNB-JP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
SNB-I6	Tri-Symmetry	SNB-IP	SNB-JP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnA1	Tri-Gen 1	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnA2	Tri-Gen 2	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnB1	Tri-Gen 1	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnB2	Tri-Gen 2	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnC1	Tri-Gen 1	RohnCP	RohnDP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnC2	Tri-Gen 2	RohnCP	RohnDP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnD1	Tri-Gen 1	RohnDP	RohnEP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnD2	Tri-Gen 2	RohnDP	RohnEP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnE1	Tri-Gen 1	RohnEP	RohnFP	0.333	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnE2	Tri-Gen 2	RohnEP	RohnFP	0.667	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnF1	Tri-Gen 1	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnF2	Tri-Gen 2	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnG1	Tri-Gen 1	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnG2	Tri-Gen 2	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnH1	Tri-Gen 1	RohnHP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnH2	Tri-Gen 2	RohnHP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnI1	Tri-Gen 1	RohnJP	RohnKP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnI2	Tri-Gen 2	RohnJP	RohnKP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnJ1	Tri-Gen 1	RohnKP	RohnLP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free
RohnJ2	Tri-Gen 2	RohnKP	RohnLP	0.5	0	Free	Free	Free	Free	Free	Free	Free	Free	Free

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The model contains 60 primary and 96 secondary joints for a total of 156 joints.

[illegible]

Bolt Label	Bolt Diameter	Hole Diameter	Ultimate Shear Capacity	Default End Distance	Bolt Spacing	Default Hyp. 1 Capacity	Default Hyp. 2 Capacity	Shear Capacity
1	1/2	5/8	10.0	1.5	3.0	10.0	10.0	10.0
2	3/4	1	17.0	1.5	3.0	17.0	17.0	17.0
3	1	1 1/8	24.0	1.5	3.0	24.0	24.0	24.0
4	1 1/4	1 5/8	36.0	1.5	3.0	36.0	36.0	36.0
5	1 1/2	2	48.0	1.5	3.0	48.0	48.0	48.0
6	1 3/4	2 1/8	60.0	1.5	3.0	60.0	60.0	60.0
7	2	2 1/4	72.0	1.5	3.0	72.0	72.0	72.0
8	2 1/4	2 5/8	84.0	1.5	3.0	84.0	84.0	84.0
9	2 1/2	3	96.0	1.5	3.0	96.0	96.0	96.0
10	2 3/4	3 1/8	108.0	1.5	3.0	108.0	108.0	108.0
11	3	3 1/4	120.0	1.5	3.0	120.0	120.0	120.0
12	3 1/4	3 5/8	132.0	1.5	3.0	132.0	132.0	132.0
13	3 1/2	4	144.0	1.5	3.0	144.0	144.0	144.0
14	3 3/4	4 1/8	156.0	1.5	3.0	156.0	156.0	156.0
15	4	4 1/4	168.0	1.5	3.0	168.0	168.0	168.0
16	4 1/4	4 5/8	180.0	1.5	3.0	180.0	180.0	180.0
17	4 1/2	5	192.0	1.5	3.0	192.0	192.0	192.0
18	4 3/4	5 1/8	204.0	1.5	3.0	204.0	204.0	204.0
19	5	5 1/4	216.0	1.5	3.0	216.0	216.0	216.0
20	5 1/4	5 5/8	228.0	1.5	3.0	228.0	228.0	228.0
21	5 1/2	6	240.0	1.5	3.0	240.0	240.0	240.0
22	5 3/4	6 1/8	252.0	1.5	3.0	252.0	252.0	252.0
23	6	6 1/4	264.0	1.5	3.0	264.0	264.0	264.0
24	6 1/4	6 5/8	276.0	1.5	3.0	276.0	276.0	276.0
25	6 1/2	7	288.0	1.5	3.0	288.0	288.0	288.0
26	6 3/4	7 1/8	300.0	1.5	3.0	300.0	300.0	300.0
27	7	7 1/4	312.0	1.5	3.0	312.0	312.0	312.0
28	7 1/4	7 5/8	324.0	1.5	3.0	324.0	324.0	324.0
29	7 1/2	8	336.0	1.5	3.0	336.0	336.0	336.0
30	7 3/4	8 1/8	348.0	1.5	3.0	348.0	348.0	348.0
31	8	8 1/4	360.0	1.5	3.0	360.0	360.0	360.0
32	8 1/4	8 5/8	372.0	1.5	3.0	372.0	372.0	372.0
33	8 1/2	9	384.0	1.5	3.0	384.0	384.0	384.0
34	8 3/4	9 1/8	396.0	1.5	3.0	396.0	396.0	396.0
35	9	9 1/4	408.0	1.5	3.0	408.0	408.0	408.0
36	9 1/4	9 5/8	420.0	1.5	3.0	420.0	420.0	420.0
37	9 1/2	10	432.0	1.5	3.0	432.0	432.0	432.0
38	9 3/4	10 1/8	444.0	1.5	3.0	444.0	444.0	444.0
39	10	10 1/4	456.0	1.5	3.0	456.0	456.0	456.0
40	10 1/4	10 5/8	468.0	1.5	3.0	468.0	468.0	468.0
41	10 1/2	11	480.0	1.5	3.0	480.0	480.0	480.0
42	10 3/4	11 1/8	492.0	1.5				

5/8 A325-N	0.625	0.6875	27	1.125	1.5	0	0
3/4 A325-N	0.75	0.8125	40	1.35	1.8	0	0

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Number Bolts Used By Type:

Bolt Number

Type Bolts

5/8 A325-N 240
3/4 A325-N 60

Angle Properties:

Angle Type	Angle Size	Long Leg	Short Leg	Thick. Leg	Unit Weight	Gross Area	w/t Ratio	Radius of Gyration	Rx (in)	Ry (in)	Rz Angles	Wind Width	Short Edge Dist.	Long Optimize	Section Cost	
		(in)	(in)	(in)	(lbs/ft)	(in ²)			(in)	(in)	(in)	(in)	(in)	Factor	Modulus	
SAE	5X5X0.625	5	5	0.625	20	5.86	6.2	1.52	1.52	1.52	0.978	1	5	2.5	0	1.0000
SAE	4X4X0.625	4	4	0.625	15.7	4.61	4.8	1.2	1.2	1.2	0.779	1	4	2	0	1.0000
SAE	4X4X0.5	4	4	0.5	12.8	3.75	6.25	1.22	1.22	1.22	0.782	1	4	2	0	1.0000
SAE	4X4X0.25	4	4	0.25	6.6	1.94	13.5	1.25	1.25	1.25	0.795	1	4	2	0	1.0000
SAE	3.5X3.5X0.25	3.5	3.5	0.25	5.8	1.69	11.5	1.09	1.09	1.09	0.694	1	3.5	1.75	0	1.0000
SAE	3X3X0.5	3	3	0.5	9.4	2.75	4.38	0.898	0.898	0.898	0.584	1	3	1.5	0	1.0000
SAE	3X3X0.25	3	3	0.25	4.9	1.44	9.75	0.93	0.93	0.93	0.592	1	3	1.5	0	1.0000
SAE	2.5X2.5X0.3125	2.5	2.5	0.3125	4.1	1.19	7.75	0.761	0.761	0.761	0.489	1	2.5	1.25	0	1.0000
SAE	2.5X2.5X0.25	2.5	2.5	0.25	3.07	0.902	10.67	0.778	0.778	0.778	0.491	1	2.5	1.25	0	1.0000
SAE	2X2X0.375	2	2	0.375	4.7	1.36	3	0.594	0.594	0.594	0.389	1	2	1	0	1.0000
SAE	2X2X0.3125	2	2	0.3125	3.92	1.15	3.8	0.601	0.601	0.601	0.39	1	2	1	0	1.0000
SAE	2X2X0.25	2	2	0.25	3.19	0.94	5	0.609	0.609	0.609	0.391	1	2	1	0	1.0000
SAE	2X2X0.1875	2	2	0.1875	2.44	0.71	8	0.617	0.617	0.617	0.394	1	2	1	0	1.0000
SAE	1.75X1.75X0.1875	1.75	1.75	0.1875	2.12	0.62	6	0.537	0.537	0.537	0.343	1	1.75	0.875	0	1.0000
BIG	0.1X0.1X1	0.1	0.1	1	0	800	2.17	9.99	9.99	9.99	9.99	1	0.1	0.05	0	1.0000
Pipe	Pipe3EH	3.5	2.9	Pipe	10.3	2.83	1	1.14	1.14	1.14	1.14	1	0	0	0	0.0000
Pipe	Pipe4EH	4.5	3.826	Pipe	15	4.14	1	1.48	1.48	1.48	1.48	1	0	0	0	0.0000
Pipe	Pipe5STD	5.563	5.047	Pipe	14.6	4.03	1	1.88	1.88	1.88	1.88	1	0	0	0	0.0000
Pipe	Pipe5EH	5.563	4.813	Pipe	20.8	5.72	1	1.85	1.85	1.85	1.85	1	0	0	0	0.0000
Pipe	Pipe6EH	6.625	5.761	Pipe	28.6	7.88	1	2.2	2.2	2.2	2.2	1	0	0	0	0.0000
Pipe	Pipe8EH	8.625	8	Pipe	35.78	9.86	1	2.96	2.96	2.96	2.96	1	0	0	0	0.0000
Pipe	Pipe3.5EH	4	3.364	Pipe	12.5	3.44	1	1.31	1.31	1.31	1.31	1	0	0	0	0.0000
Pipe	Pipe6EH	6.625	5.96	Pipe	24.38	6.71	1	2.22	2.22	2.22	2.22	1	0	0	0	0.0000
Pipe	P3-437	3.5	2.626	Pipe	15	4.2	1	1.09	1.09	1.09	1.09	1	0	0	0	0.0000
Pipe	P4-494	4.5	3.512	Pipe	21.4	6.21	1	1.42	1.42	1.42	1.42	1	0	0	0	0.0000
Pipe	P6-562	6.625	5.5	Pipe	36.6	10.7	1	2.15	2.15	2.15	2.15	1	0	0	0	0.0000
Pipe	Pipe8XS	8.625	7.625	Pipe	43.39	12.8	1	2.88	2.88	2.88	2.88	1	0	0	0	0.0000
Pipe	Pipe10XS	10.75	9.75	Pipe	54.74	16.1	1	3.63	3.63	3.63	3.63	1	0	0	0	0.0000
Pipe	P3-425	3.5	2.65	Pipe	15	4.105	1	1.097	1.097	1.097	1.097	1	0	0	0	0.0000

Angle Groups:

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group	Allow. Add. Angle Width (in)	For Optimize (in)
Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	A 36	Truss	Other	None	0.000	0.000
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	A 36	Truss	Other	None	0.000	0.000
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	A 36	Truss	Other	None	0.000	0.000
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	A 36	Truss	Other	None	0.000	0.000
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	A572-50	Truss	Other	None	0.000	0.000
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	A572-50	Truss	Other	None	0.000	0.000
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	A572-50	Truss	Other	None	0.000	0.000
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L5	Rohn Leg 5	Pipe	Pipe3EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EH	A572-50	Leg	Leg	None	0.000	0.000
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	A 36	Truss	Other	None	0.000	0.000
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	A 36	Truss	Other	None	0.000	0.000
SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	A 36	Truss	Other	None	0.000	0.000
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	A 36	Truss	Other	None	0.000	0.000
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	A 36	Truss	Other	None	0.000	0.000

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Rohn-D12P Rohn-D7	Tri-Symmetry	RohnIP RohnIa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D12P Rohn-D7	Tri-Gen 1	RohnI1 RohnIa5	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D122 Rohn-D7	Tri-Gen 2	RohnI2 RohnIa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D13P Rohn-D7	Tri-Symmetry	RohnIa5 RohnJ1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D13P Rohn-D7	Tri-Gen 1	RohnIa1 RohnJ2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D132 Rohn-D7	Tri-Gen 2	RohnIa2 RohnJ2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D14P Rohn-D7	Tri-Symmetry	RohnIa5 RohnJ2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D14P Rohn-D7	Tri-Gen 1	RohnIa1 RohnJ2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-D142 Rohn-D7	Tri-Gen 2	RohnIa2 RohnJ1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0	0
Rohn-LA1P Rohn-L1	Tri-Symmetry	RohnAP RohnAa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA1P Rohn-L1	Tri-Gen 1	RohnA1 RohnAa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA12 Rohn-L1	Tri-Gen 2	RohnA2 RohnAa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA2P Rohn-L1	Tri-Symmetry	RohnAa5 RohnAa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA2P Rohn-L1	Tri-Gen 1	RohnAa1 RohnAa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA22 Rohn-L1	Tri-Gen 2	RohnAa2 RohnAa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA3P Rohn-L1	Tri-Symmetry	RohnAa5 RohnAa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA3P Rohn-L1	Tri-Gen 1	RohnAa1 RohnAa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA32 Rohn-L1	Tri-Gen 2	RohnAa2 RohnAa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA4P Rohn-L1	Tri-Symmetry	RohnAa5 RohnAa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA4P Rohn-L1	Tri-Gen 1	RohnAa1 RohnAa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LA42 Rohn-L1	Tri-Gen 2	RohnAa2 RohnAa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB1P Rohn-L1	Tri-Symmetry	RohnBP RohnBa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB1P Rohn-L1	Tri-Gen 1	RohnB1 RohnBa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB12 Rohn-L2	Tri-Gen 2	RohnB2 RohnBa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB2P Rohn-L2	Tri-Symmetry	RohnBa5 RohnBa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB2P Rohn-L2	Tri-Gen 1	RohnBa1 RohnBa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB22 Rohn-L2	Tri-Gen 2	RohnBa2 RohnBa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB3P Rohn-L2	Tri-Symmetry	RohnBb5 RohnBb5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB3P Rohn-L2	Tri-Gen 1	RohnBb1 RohnBb1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB32 Rohn-L2	Tri-Gen 2	RohnBb2 RohnBb2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB4P Rohn-L2	Tri-Symmetry	RohnBb5 RohnBb5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB4P Rohn-L2	Tri-Gen 1	RohnBb1 RohnBb1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LB42 Rohn-L2	Tri-Gen 2	RohnBb2 RohnBb2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC1P Rohn-L3	Tri-Symmetry	RohnCP RohnCa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC1P Rohn-L3	Tri-Gen 1	RohnC1 RohnCa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC12 Rohn-L3	Tri-Gen 2	RohnC2 RohnCa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC2P Rohn-L3	Tri-Symmetry	RohnCa5 RohnCb5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC2P Rohn-L3	Tri-Gen 1	RohnCa1 RohnCb1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC22 Rohn-L3	Tri-Gen 2	RohnCa2 RohnCb2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC3P Rohn-L3	Tri-Symmetry	RohnCb5 RohnDf	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC3P Rohn-L3	Tri-Gen 1	RohnCb1 RohnDf1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LC32 Rohn-L3	Tri-Gen 2	RohnCb2 RohnDf2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD1P Rohn-L4	Tri-Symmetry	RohnDP RohnDa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD1P Rohn-L4	Tri-Gen 1	RohnDf1 RohnDa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD12 Rohn-L4	Tri-Gen 2	RohnDf2 RohnDa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD2P Rohn-L4	Tri-Symmetry	RohnDa5 RohnDb5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD2P Rohn-L4	Tri-Gen 1	RohnDa1 RohnDb1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD22 Rohn-L4	Tri-Gen 2	RohnDa2 RohnDb2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD3P Rohn-L4	Tri-Symmetry	RohnDb5 RohnEf	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD3P Rohn-L4	Tri-Gen 1	RohnDb1 RohnEf1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LD32 Rohn-L4	Tri-Gen 2	RohnDb2 RohnEf2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE1P Rohn-L5	Tri-Symmetry	RohnEP RohnEa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE1P Rohn-L5	Tri-Gen 1	RohnE1 RohnEa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE12 Rohn-L5	Tri-Gen 2	RohnE2 RohnEa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE2P Rohn-L5	Tri-Symmetry	RohnEa5 RohnEb5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE2P Rohn-L5	Tri-Gen 1	RohnEb1 RohnEb1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE22 Rohn-L5	Tri-Gen 2	RohnEb2 RohnEb2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE3P Rohn-L5	Tri-Symmetry	RohnEb5 RohnFf	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE3P Rohn-L5	Tri-Gen 1	RohnEb1 RohnFf1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LE32 Rohn-L5	Tri-Gen 2	RohnEb2 RohnFf2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF1P Rohn-L6	Tri-Symmetry	RohnFP RohnFa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF1P Rohn-L6	Tri-Gen 1	RohnFf1 RohnFa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF12 Rohn-L6	Tri-Gen 2	RohnFf2 RohnFa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF2P Rohn-L6	Tri-Symmetry	RohnFa5 RohnGp	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF2P Rohn-L6	Tri-Gen 1	RohnGf1 RohnGa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LF22 Rohn-L6	Tri-Gen 2	RohnGf2 RohnGa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG1P Rohn-L7	Tri-Symmetry	RohnGp RohnGa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG1P Rohn-L7	Tri-Gen 1	RohnGf1 RohnGa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG12 Rohn-L7	Tri-Gen 2	RohnGf2 RohnGa2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG2P Rohn-L7	Tri-Symmetry	RohnGa5 RohnHf	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG2P Rohn-L7	Tri-Gen 1	RohnGa1 RohnHf1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LG22 Rohn-L7	Tri-Gen 2	RohnGa2 RohnHf2	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LH1P Rohn-L7	Tri-Symmetry	RohnHP RohnHa5	1	4	1	1	1	1		0	0	0		0	0	0	0	0	
Rohn-LH1P Rohn-L7	Tri-Gen 1	RohnHf1 RohnHa1	1	4	1	1	1	1		0	0	0		0	0	0	0	0	

SNB-H22	SNB-H1	81.989	L/R	88.568	Net Sect	30	5.41	81.989	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H3P	SNB-H1	79.736	L/R	88.568	Net Sect	37	5.77	79.736	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H31	SNB-H1	79.736	L/R	88.568	Net Sect	37	6.77	79.736	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H32	SNB-H1	79.736	L/R	88.568	Net Sect	37	6.77	79.736	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H3F	SNB-H1	77.281	L/R	88.568	Net Sect	44	8.13	77.281	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H41	SNB-H1	77.281	L/R	88.568	Net Sect	44	8.13	77.281	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H42	SNB-H1	77.281	L/R	88.568	Net Sect	44	8.13	77.281	0.000	88.568	0.000	0.000	0.000	Automatic
SNB-H51	SNB-H2	119.111	L/R	134.136	Net Sect	40	9.49	119.111	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H52	SNB-H2	119.111	L/R	134.136	Net Sect	40	9.49	119.111	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H5P	SNB-H2	119.111	L/R	134.136	Net Sect	40	9.49	119.111	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H61	SNB-H2	116.171	L/R	134.136	Net Sect	46	10.86	116.171	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H62	SNB-H2	116.171	L/R	134.136	Net Sect	46	10.86	116.171	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H71	SNB-H2	113.058	L/R	134.136	Net Sect	52	12.22	113.058	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H72	SNB-H2	113.058	L/R	134.136	Net Sect	52	12.22	113.058	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H8P	SNB-H2	109.782	L/R	134.136	Net Sect	57	13.58	109.782	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H81	SNB-H2	109.782	L/R	134.136	Net Sect	57	13.58	109.782	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H82	SNB-H2	109.782	L/R	134.136	Net Sect	57	13.58	109.782	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H3P	SNB-H2	106.339	L/R	134.136	Net Sect	63	14.94	106.339	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H31	SNB-H2	106.339	L/R	134.136	Net Sect	63	14.94	106.339	0.000	134.136	0.000	0.000	0.000	Automatic
SNB-H32	SNB-H2	106.339	L/R	134.136	Net Sect	63	14.94	106.339	0.000	134.136	0.000	0.000	0.000	Automatic

The model contains 558 angle members.

Section Joint Information:

Section Label	Joint Label	Joint Elevation (ft)
A	RehNAP	180.000
A	RehNA1	175.000
A	RehNA1	180.000
A	RehNA2	175.000
A	RehNA2	180.000
A	RehNA3	175.000
A	RehNA3	170.000
A	RehNA5	170.000
A	RehNA5	165.000
A	RehNA2	160.000
A	RehNA2	160.000
A	RehNA1	160.000
A	RehNA1	175.000
A	RehNA1	180.000
A	RehNA2	175.000
A	RehNA2	180.000
A	RehNA3	175.000
A	RehNA3	170.000
A	RehNA2	170.000
A	RehNA2	170.000
A	RehNA1	165.000
A	RehNA2	165.000
A	RehNA2	165.000
A	RehNA1	160.000
A	RehNA1	160.000
A	RehNA2	160.000
A	RehNA2	160.000
B	RehNB3	160.000
B	RehNB3	155.000
B	RehNB1	160.000
B	RehNB2	155.000
B	RehNB2	160.000
B	RehNB3	155.000
B	RehNB3	150.000
B	RehNB1	150.000
B	RehNB1	145.000
B	RehNB2	145.000
B	RehNB3	145.000
B	RehNB1	140.000

B RohnC2 140.000
 B RohnCP 140.000
 B SNB-BP 160.000
 B SNB-Ba1 155.000
 B SNB-B1 160.000
 B SNB-Ba2 155.000
 B SNB-B2 160.000
 B SNB-BB3 155.000
 B SNB-BB1 150.000
 B SNB-BB2 150.000
 B SNB-BB5 150.000
 B SNB-Bc1 145.000
 B SNB-Bc2 145.000
 B SNB-BcS 145.000
 B SNB-C1 140.000
 B SNB-C2 140.000
 B SNB-CF 140.000
 C RohnCF 140.000
 C RohnCa1 133.340
 C RohnC1 140.000
 C RohnCa2 133.340
 C RohnC2 140.000
 C RohnCaS 133.340
 C RohnCb1 126.660
 C RohnCb2 126.660
 C RohnCbS 126.660
 C RohnD1 120.000
 C RohnD2 120.000
 C RohnDP 120.000
 C SNB-CF 140.000
 C SNB-Ca1 133.340
 C SNB-C1 140.000
 C SNB-Ca2 133.340
 C SNB-C2 140.000
 C SNB-CaS 133.340
 C SNB-Cb1 126.660
 C SNB-Cb2 126.660
 C SNB-CbS 126.660
 C SNB-D1 120.000
 C SNB-D2 120.000
 C SNB-DP 120.000
 D RohnDP 120.000
 D RohnDa1 113.340
 D RohnD1 120.000
 D RohnDa2 113.340
 D RohnD2 120.000
 D RohnDaS 113.340
 D RohnDb1 106.660
 D RohnDb2 106.660
 D RohnDbS 106.660
 D RohnE1 100.000
 D RohnE2 100.000
 D RohnEP 100.000
 D SNB-DP 120.000
 D SNB-Da1 113.340
 D SNB-D1 120.000
 D SNB-Da2 113.340
 D SNB-D2 120.000
 D SNB-DaS 113.340
 D SNB-Db1 106.660
 D SNB-Db2 106.660
 D SNB-DbS 106.660
 D SNB-E1 100.000
 D SNB-E2 100.000
 D SNB-EP 100.000
 E RohnEP 100.000
 E RohnEa1 93.340
 E RohnE1 100.000
 E RohnEa2 93.340
 E RohnE2 100.000
 E RohnEaS 93.340
 E RohnEb1 86.660
 E RohnEb2 86.660
 E RohnEbS 86.660

E RohnF1 80.000
 E RohnF2 80.000
 E RohnF3 80.000
 E SNB-EP 100.000
 E SNB-Ea1 93.340
 E SNB-E1 100.000
 E SNB-Ea2 93.340
 E SNB-E2 100.000
 E SNB-Ea3 93.340
 E SNB-Eb1 86.660
 E SNB-Eb2 86.660
 E SNB-Eb3 86.660
 E SNB-F1 80.000
 E SNB-F2 80.000
 E SNB-F3 80.000
 F RohnF1 80.000
 F RohnF2 70.000
 F RohnF3 70.000
 F RohnF4 70.000
 F RohnG1 60.000
 F RohnG2 60.000
 F RohnG3 60.000
 F SNB-F1 80.000
 F SNB-F2 70.000
 F SNB-F3 70.000
 F SNB-F4 70.000
 F SNB-G1 60.000
 F SNB-G2 60.000
 F SNB-G3 60.000
 G RohnG1 50.000
 G RohnG2 60.000
 G RohnG3 50.000
 G RohnG4 60.000
 G RohnG5 50.000
 G RohnH1 40.000
 G RohnH2 40.000
 G RohnH3 40.000
 G SNB-G1 50.000
 G SNB-G2 50.000
 G SNB-G3 50.000
 G SNB-G4 50.000
 G SNB-H1 40.000
 G SNB-H2 40.000
 G SNB-H3 40.000
 H RohnH1 30.000
 H RohnH2 40.000
 H RohnH3 30.000
 H RohnH4 20.000
 H RohnH5 20.000
 H RohnH6 20.000
 H SNB-H1 40.000
 H SNB-H2 30.000
 H SNB-H3 30.000
 H SNB-H4 40.000
 H SNB-H5 30.000
 H SNB-H6 20.000
 H SNB-I1 20.000
 I RohnI1 10.000
 I RohnI2 10.000
 I RohnI3 20.000

I Rohn1as 10.000
 I RohnJ1 0.000
 I RohnJ2 0.000
 I RohnJF 0.000
 I SNB-IP 20.000
 I SNB-Ia1 10.000
 I SNB-I1 20.000
 I SNB-Ia2 10.000
 I SNB-I2 20.000
 I SNB-Ia5 10.000
 I SNB-J1 0.000
 I SNB-J2 0.000
 I SNB-JF 0.000

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Number	Count	Width (ft)	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Area (ft^2)	Adjust Factor	Dead Load
A	180.000	160.000	30	99	7.50	8.87	163.75	0.9000	0.9000	1.0000	1.000
B	160.000	140.000	30	87	8.87	10.23	191.05	0.9000	0.9000	1.0000	1.000
C	140.000	120.000	24	66	10.23	11.60	218.31	0.9000	0.9000	1.0000	1.000
D	120.000	100.000	24	66	11.60	12.96	245.54	0.9000	0.9000	1.0000	1.000
E	100.000	80.000	24	66	12.96	14.32	272.78	0.9000	0.9000	1.0000	1.000
F	80.000	60.000	18	45	14.32	15.68	300.04	0.9000	0.9000	1.0000	1.000
G	60.000	40.000	18	45	15.68	17.05	327.29	0.9000	0.9000	1.0000	1.000
H	40.000	20.000	18	45	17.05	18.41	354.57	0.9000	0.9000	1.0000	1.000
I	20.000	0.000	18	39	18.41	19.78	381.92	0.9000	0.9000	1.0000	1.000

Equipment Library:

Equipment Property Label	Stock Number	Weight (lbs)	Height (ft)	Area (ft^2)	Wind Area (ft^2)	Ice Area (ft^2)	EIA Antenna Type	Shape or Drag Diameter	Height (ft)
EMS RR90-17-XDP w/ ice	Panel	40.4	4.77	0.00			Square	1.00	0.00
Scala OCT6-806 w/ ice	Omni	22.7	1.98	0.00			Circle	1.00	0.00
Ryema MG D3-800T0	Panel	30.0	3.56	0.00			Square	1.00	0.00
Andrew DS84H80-XY	Panel	40.0	3.58	0.00			Square	1.00	0.00
Powerwave P65-15-XU-2	Panel	70.0	8.51	0.00			Square	1.00	0.00
Andrew LNW-6514DS-T4M	Panel	60.0	8.51	0.00			Square	1.00	0.00
12 T-Arm	Mount	600.0	10.00	0.00			Square	1.00	0.00
3 Stand-Off	Mount	75.0	1.50	0.00			Square	1.00	0.00
Dipole	Dipole	71.0	6.00	0.00			Circle	1.00	0.00
6' Dish with Radome	Dish	220.0	29.00	0.00			Square	1.00	0.00
TMA	Omni	15.0	1.00	0.00			Circle	1.00	0.00
Decibel DB806M-XT	Omni	20.0	2.50	0.00			Circle	1.00	0.00
GLF-810 Grid Dish	Dish	120.0	20.00	0.00			Square	1.00	0.00
Decibel DB880	Panel	30.0	4.30	0.00			Square	1.00	0.00
GPS	GPS	20.0	1.00	0.00			Circle	1.00	0.00
Yagi	Yagi	30.0	1.00	0.00			Circle	1.00	0.00
Powerwave 7770	Panel	35.0	5.88	0.00			Square	1.00	0.00
Powerwave P65-16-XUH-RR	Panel	65.0	8.40	0.00			Square	1.00	0.00
Raycap Surge Suppressor	Other	20.0	1.27	0.00			Square	1.00	0.00
Ericsson RRU	Other	80.0	5.45	0.00			Square	1.00	0.00
9' Omni	Omni	172.0	5.85	0.00			Square	1.00	0.00
4' Dipole	Dipole	40.0	2.00	0.00			Circle	1.00	0.00
5' Dish	Dish	200.0	20.00	0.00			Square	1.00	0.00
10x4.6x4 Panel	Panel	20.0	0.50	0.00			Square	1.00	0.00
DB586-I	Omni	10.0	0.40	0.00			Circle	1.00	0.00
6' Omni	Omni	50.0	2.50	0.00			Circle	1.00	0.00
5' Dipole	Dipole	50.0	2.50	0.00			Circle	1.00	0.00
8' Omni	Omni	160.0	1.40	0.00			Circle	1.00	0.00
12' Omni	Omni	170.0	2.40	0.00			Circle	1.00	0.00
DB212-C	Dipole	75.0	4.40	0.00			Circle	1.00	0.00

Equipment Connectivity:

Equipment Label	Attach Label	Equipment EIA Antenna Property Orientation Set	Angle (deg)
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Top-A	RohnAP	3' Stand-Off	0.00
Top-B	RohnA1	3' Stand-Off	120.00
Top-C1	RohnA2	3' Stand-Off	260.00
Top-C2	RohnA2	3' Stand-Off	220.00
Top-1	RohnAP	Dipole	0.00
Top-2a	RohnA1	9' Omni	120.00
Top-2b	RohnA1	TMA	120.00
Top-3	RohnA1	4' Dipole	120.00
Top-5	RohnAP	Scala OGT6-806 w/ ice	0.00
Top-6	RohnA2	Scala OGT6-806 w/ ice	240.00
Top-7	RohnAP	6' Dish with Radome	0.00
Top-8	RohnA1	6' Dish with Radome	120.00
Top-9	RohnA2	6' Dish with Radome	240.00
176	RohnA1	6' Dish with Radome	120.00
176-1	RohnA2	Scala OGT6-806 w/ ice	0.00
173-3	RohnA2	Scala OGT6-806 w/ ice	240.00
169-1	RohnA1	Scala OGT6-806 w/ ice	120.00
169-2	RohnA1	10x4.6x4 Panel	120.00
170	RohnA1	5' Dish	0.00
175	RohnA1	Decibel DA806M-XT	120.00
167-1	RohnA1	DB586-Y	120.00
163	RohnA1	GLF-940	120.00
159-A	RohnB1	3' Stand-Off	120.00
159-B	RohnB2	3' Stand-Off	240.00
159-1	RohnB1	10x4.6x4 Panel	120.00
159-2	RohnB2	10x4.6x4 Panel	240.00
ATT-A	RohnB5	12' T-Arm	0.00
ATT-B	RohnB1	12' T-Arm	120.00
ATT-C	RohnB2	12' T-Arm	240.00
ATT-A1	RohnB5	Powerwave 7770	0.00
ATT-A2	RohnB5	Powerwave P65-16-XLH-RR	0.00
ATT-A3	RohnB5	Powerwave 7770	0.00
ATT-A4	RohnB5	Ericsson RRU	0.00
ATT-A5	RohnB5	Ericsson RRU	0.00
ATT-A6	RohnB5	Ericsson TMA	0.00
ATT-A7	RohnB5	TMA	0.00
ATT-A8	RohnB5	TMA	0.00
ATT-A9	RohnB5	TMA	0.00
ATT-A10	RohnB5	Raycap Surge Suppressor	0.00
ATT-B1	RohnB1	Powerwave 7770	120.00
ATT-B2	RohnB1	Powerwave P65-16-XLH-RR	120.00
ATT-B3	RohnB1	Powerwave 7770	120.00
ATT-B4	RohnB1	Ericsson RRU	120.00
ATT-B5	RohnB1	Ericsson RRU	120.00
ATT-B6	RohnB1	Ericsson TMA	120.00
ATT-B7	RohnB1	TMA	120.00
ATT-B8	RohnB1	TMA	120.00
ATT-B9	RohnB1	TMA	120.00
ATT-C1	RohnB2	Powerwave 7770	120.00
ATT-C2	RohnB2	Powerwave P65-16-XLH-RR	240.00
ATT-C3	RohnB2	Powerwave 7770	240.00
ATT-C4	RohnB2	Ericsson RRU	240.00
ATT-C5	RohnB2	Ericsson RRU	240.00
ATT-C6	RohnB2	Ericsson TMA	240.00
ATT-C7	RohnB2	TMA	240.00
ATT-C8	RohnB2	TMA	240.00
ATT-C9	RohnB2	TMA	240.00
143-A	RohnB1	3' Stand-Off	120.00
143-1	RohnB1	6' Omni	120.00
139	RohnCP	5' Dipole	0.00
137	RohnC2	8' Omni	240.00
T-Mobile-1	RohnCP	ENS RR90-17-XXDP w/ ice	0.00
T-Mobile-2	RohnCP	TMA	0.00
T-Mobile-3	RohnCP	TMA	0.00
T-Mobile-4	RohnC1	ENS RR90-17-XXDP w/ ice	120.00
T-Mobile-5	RohnC1	TMA	120.00
T-Mobile-6	RohnC1	TMA	120.00
T-Mobile-7	RohnC2	ENS RR90-17-XXDP w/ ice	240.00
T-Mobile-8	RohnC2	TMA	240.00
T-Mobile-9	RohnC2	TMA	240.00
Verizon-A	RohnCas	12' T-Arm	0.00
Verizon-B	RohnCa1	12' T-Arm	120.00
Verizon-C	RohnCa2	12' T-Arm	240.00
Verizon-1	RohnCs5	Powerwave P65-15-XL-2	0.00

Verizon-2 RohnCas Andrew DB844H80-XY 0.00
 Verizon-3 RohnCas Andrew DB844H80-XY 0.00
 Verizon-4 RohnCas Rysma MG D3-800T0 0.00
 Verizon-5 RohnCas Andrew LMX-6514DS-TM 120.00
 Verizon-6 RohnCas Andrew DB844H80-XY 120.00
 Verizon-7 RohnCas Andrew DB844H80-XY 120.00
 Verizon-8 RohnCas Rysma MG D3-800T0 120.00
 Verizon-9 RohnCas PowerWave P65-15-XL-2 240.00
 Verizon-10 RohnCas Andrew DB844H80-XY 240.00
 Verizon-11 RohnCas Andrew DB844H80-XY 240.00
 Verizon-12 RohnCas Rysma MG D3-800T0 240.00
 Sprint-A RohnDP 12" T-Arm 0.00
 Sprint-B RohnD1 12" T-Arm 120.00
 Sprint-C RohnD2 12" T-Arm 240.00
 Sprint-1 RohnDP Decibel DB980 0.00
 Sprint-2 RohnDP Decibel DB980 0.00
 Sprint-3 RohnD1 Decibel DB980 120.00
 Sprint-4 RohnD1 Decibel DB980 120.00
 Sprint-5 RohnD2 Decibel DB980 240.00
 Sprint-6 RohnD2 Decibel DB980 240.00
 115-A RohnD1 3' Stand-Off 120.00
 115-1 RohnD1 12" Omni 120.00
 105-A RohnD1 3' Stand-Off 120.00
 105-1 RohnD1 DB586-Y 120.00
 85-A RohnEb1 6" Omni 120.00
 85-1 RohnEb1 DB212-C 0.00
 80 RohnFP GPS 240.00
 62 RohnG2 GPS 0.00
 60 RohnGP GPS 0.00
 55 RohnG1 Yagi 120.00

Linear Appurtenances:

Description	From	To	Quantity	Shape	Width or Diameter	Perimeter	Unit	In	Include in
	(ft)	(ft)			(in)	(in)	(lbs/ft)	Zone	Wind Load
1-5/8"	2	180	40	Round	0	0	2.55	Yes	No
1/2"	2	180	6	Round	0	0	0.91	Yes	No
7/8"	2	180	13	Round	0	0	1.52	Yes	No
1-1/4"	2	180	4	Round	0	0	1.91	Yes	No
Full Cable Tray (wind only)	2	175	24	Round	24	0	0	Yes	Yes
Elliptical	2	180	3	Round	0	0	2	Yes	No
3/8"	2	180	2	Round	0	0	0.65	Yes	No
Optic Fiber Cable	2	180	1	Round	0	0	0.3	Yes	No
DC Cable	2	180	2	Round	0	0	0.3	Yes	No

*** Loads Data

Loads from file: c:\pls\tower\sai-067 (rev 2)\sai-067.eia

Structure Height Summary (used for calculating wind/ice adjust with height):
 Structure height above ground 180.00 (ft)
 Elevation of structure bottom for wind height adjustment: 0.00 (ft)
 Structure height for structure gust response factor: 180.00 (ft)
 Structure gust response factor, G_s: 1.1209
 Guy installation temperature: 60.00 (deg F)
 Tower Type: Triangular Latticed

EIA Rev. F Load Cases:

Load Case Description		Dead Factor	Wind Factor	Ice Load Factor	Strength Factor	Allowable Increase Factor	Basic Wind Speed (mph)	Ice Density (lbs/ft^3)	Ice Temperature (deg F)	Point Loads	Joint Displ.			

W-I -90 deg		1.0000	1.0000	1.0000	1.0000	1.3333	90.000	-90	0.5000	56.0000	0.0			
W-I -60 deg		1.0000	1.0000	1.0000	1.0000	1.3333	90.000	-60	0.5000	56.0000	0.0			
W-I 0 deg		1.0000	1.0000	1.0000	1.0000	1.3333	90.000	0	0.5000	56.0000	0.0			
W-I 60 deg		1.0000	1.0000	1.0000	1.0000	1.3333	90.000	60	0.5000	56.0000	0.0			
W-I 90 deg		1.0000	1.0000	1.0000	1.0000	1.3333	90.000	90	0.5000	56.0000	0.0			
DL + Ice Only		1.0000	1.0000	1.0000	1.0000	1.3333	0.000	0	0.5000	56.0000	0.0			

Equipment Load Case Information for "W-I -90 deg":														
Equipment Label	Equipment Property	Elevation Above Ground (ft)	q _z (psf)	Ice Thick. (in)	Ice Total Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load (lbs)	Antenna Side Load (lbs)	Antenna Long. Moment (ft-lbs)	Trans. Load (lbs)	Vert. Load (lbs)

Top-A	3' Stand-Off	180.00	37.72	0.50	1.50	90.00						0.00	-56.58	75.00
Top-B	3' Stand-Off	180.00	37.72	0.50	1.50	210.00						0.00	-56.58	75.00
Top-C1	3' Stand-Off	180.00	37.72	0.50	1.50	350.00						0.00	-56.58	75.00
Top-C2	3' Stand-Off	180.00	37.72	0.50	1.50	310.00						0.00	-56.58	75.00
Top-1	Dipole	180.00	37.72	0.50	6.00	90.00						0.00	-226.30	71.00
Top-2a	9' Omni	180.00	37.72	0.50	5.85	210.00						0.00	-220.65	172.00
Top-2b	TNA	180.00	37.72	0.50	1.00	210.00						0.00	-37.72	15.00
Top-3	4' Dipole	170.00	37.11	0.50	2.00	210.00						0.00	-74.21	40.00
Top-5	Scala OGT6-806 w/ ice	180.00	37.72	0.50	1.98	90.00						0.00	-74.68	22.70
Top-6	Scala OGT6-806 w/ ice	180.00	37.72	0.50	1.98	330.00						0.00	-1093.80	220.00
Top-7	6' Dish with Radome	180.00	37.72	0.50	29.00	210.00						0.00	-1093.80	220.00
Top-8	6' Dish with Radome	180.00	37.72	0.50	29.00	330.00						0.00	-1085.03	220.00
Top-9	6' Dish with Radome	175.00	37.41	0.50	29.00	210.00						0.00	-74.08	22.70
176-1	6' Dish with Radome	175.00	37.41	0.50	1.98	90.00						0.00	-18.55	20.00
176-1	Scala OGT6-806 w/ ice	175.00	37.41	0.50	1.98	330.00						0.00	-37.11	15.00
173-3	Scala OGT6-806 w/ ice	175.00	37.41	0.50	1.98	210.00						0.00	-93.54	20.00
169-1	10x4.6x4 Panel	170.00	37.11	0.50	0.50	210.00						0.00	-14.72	10.00
169-2	TNA	170.00	37.11	0.50	1.00	210.00						0.00	-735.82	120.00
170	5' Dish	170.00	37.11	0.50	20.00	90.00						0.00	-54.70	75.00
175	Decibel DB806-KT	175.00	37.41	0.50	2.50	210.00						0.00	-18.23	20.00
167-1	DB586-Y	165.00	36.79	0.50	0.40	210.00						0.00	-358.03	600.00
163	GLF-940	165.00	36.79	0.50	20.00	210.00						0.00	-358.03	600.00
159-A	3' Stand-Off	160.00	36.47	0.50	1.50	210.00						0.00	-210.52	35.00
159-B	3' Stand-Off	160.00	36.47	0.50	1.50	330.00						0.00	-300.74	65.00
159-1	10x4.6x4 Panel	160.00	36.47	0.50	0.50	210.00						0.00	-210.52	35.00
159-2	10x4.6x4 Panel	160.00	36.47	0.50	0.50	330.00						0.00	-195.12	80.00
ATT-A	12' T-Arm	150.00	35.80	0.50	10.00	90.00						0.00	-35.80	15.00
ATT-B	12' T-Arm	150.00	35.80	0.50	10.00	210.00						0.00	-35.80	15.00
ATT-C	12' T-Arm	150.00	35.80	0.50	10.00	330.00						0.00	-35.80	15.00
ATT-A1	Powerwave 7770	150.00	35.80	0.50	5.88	90.00						0.00	-35.80	15.00
ATT-A2	Powerwave P65-16-XLH-RR	150.00	35.80	0.50	8.40	90.00						0.00	-35.80	15.00
ATT-A3	Powerwave 7770	150.00	35.80	0.50	5.88	90.00						0.00	-35.80	15.00
ATT-A4	Ericsson RRU	150.00	35.80	0.50	5.45	90.00						0.00	-35.80	15.00
ATT-A5	Ericsson RRU	150.00	35.80	0.50	5.45	90.00						0.00	-35.80	15.00
ATT-A6	Ericsson RRU	150.00	35.80	0.50	5.45	90.00						0.00	-35.80	15.00
ATT-A7	TNA	150.00	35.80	0.50	1.00	90.00						0.00	-35.80	15.00
ATT-A8	TNA	150.00	35.80	0.50	1.00	90.00						0.00	-35.80	15.00

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Equipment Load Case Information for "W+I -60 deg":

Equipment Load Case Information for "W-I -60 deg":																
Equipment Label	Equipment Property	Elevation Above Ground (ft)	qsGh (psf)	Ice Thck. (in)	Total Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Load FPM (lbs)	Antenna Side Moment (ft-lbs)	Antenna Moment (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)	
A 180.00 160.00	170.00 37.11	0.50 20.58	95.29	78.64	163.7	0.71	0.85	1.00	0.83	1.78	96.1	6338	0.00 2.00	0.00 1.20	0.00 0	6338 8076
B 160.00 140.00	150.00 35.80	0.50 22.52	121.21	104.08	191.0	0.75	0.85	1.00	0.86	1.79	123.2	7890	0.00 2.00	0.00 1.20	0.00 0	7890 8862
C 140.00 120.00	130.00 34.37	0.50 25.73	121.93	97.95	218.3	0.68	0.85	1.00	0.80	1.78	119.8	7316	0.00 2.00	0.00 1.20	0.00 0	7316 9409
D 120.00 100.00	110.00 32.77	0.50 30.24	130.49	102.19	245.5	0.65	0.85	1.00	0.77	1.78	126.2	7371	0.00 2.00	0.00 1.20	0.00 0	7371 10207
E 100.00 80.00	90.00 30.94	0.50 37.01	135.28	104.64	272.8	0.63	0.85	1.00	0.77	1.79	136.1	7528	0.00 2.00	0.00 1.20	0.00 0	7528 13324
F 80.00 60.00	70.00 28.80	0.50 37.32	136.42	101.08	300.0	0.58	0.85	1.00	0.74	1.82	132.8	6955	0.00 2.00	0.00 1.20	0.00 0	6955 13861
G 60.00 40.00	50.00 26.16	0.50 39.79	143.64	104.89	327.3	0.56	0.85	1.00	0.73	1.83	138.7	6654	0.00 2.00	0.00 1.20	0.00 0	6654 15590
H 40.00 20.00	30.00 23.23	0.50 45.39	144.89	103.87	354.6	0.54	0.85	1.00	0.72	1.86	142.5	6145	0.00 2.00	0.00 1.20	0.00 0	6145 16356
I 20.00 0.00	10.00 23.23	0.50 53.73	144.01	101.77	381.9	0.52	0.85	1.00	0.71	1.88	147.4	6432	0.00 2.00	0.00 1.20	0.00 0	6432 17667
Top-A	3' Stand-Off	180.00 37.72	0.50	1.50	60.00	60.00							28.29	-49.00	75.00	
Top-B	3' Stand-Off	180.00 37.72	0.50	1.50	180.00	180.00							28.29	-49.00	75.00	
Top-C1	3' Stand-Off	180.00 37.72	0.50	1.50	320.00	320.00							28.29	-49.00	75.00	
Top-C2	3' Stand-Off	180.00 37.72	0.50	1.50	280.00	280.00							28.29	-49.00	75.00	
Top-1	Dipole	180.00 37.72	0.50	6.00	60.00	60.00							113.15	-195.98	71.00	
Top-2a	9' Omni	180.00 37.72	0.50	5.85	180.00	180.00							110.32	-191.08	172.00	
Top-2b	TNA	180.00 37.72	0.50	1.00	180.00	180.00							18.86	-32.86	15.00	
Top-3	4' Dipole	170.00 37.11	0.50	2.00	180.00	180.00							37.11	-64.27	40.00	
Top-5	Scala OGT6-806 w/ Ice	180.00 37.72	0.50	1.98	300.00	300.00							37.34	-64.67	22.70	
Top-6	Scala OGT6-806 w/ Ice	180.00 37.72	0.50	1.98	29.00	29.00							546.90	-947.26	220.00	
Top-7	6' Dish with Radome	180.00 37.72	0.50	29.00	180.00	180.00							546.90	-947.26	220.00	
Top-8	6' Dish with Radome	180.00 37.72	0.50	29.00	300.00	300.00							546.90	-947.26	220.00	
Top-9	6' Dish with Radome	180.00 37.72	0.50	29.00	180.00	180.00							542.51	-939.66	220.00	
176-1	Scala OGT6-806 w/ Ice	175.00 37.41	0.50	1.98	60.00	60.00							37.04	-64.16	22.70	
173-3	Scala OGT6-806 w/ Ice	175.00 37.41	0.50	1.98	300.00	300.00							37.04	-64.16	22.70	
169-1	10x4.6x4 Panel	170.00 37.11	0.50	0.50	180.00	180.00							9.28	-16.07	20.00	
169-2	TNA	170.00 37.11	0.50	1.00	180.00	180.00							18.55	-32.13	15.00	
170	5' Dish	170.00 37.11	0.50	2.00	60.00	60.00							371.06	-642.70	200.00	
175	Decibel DB806M-T	175.00 37.41	0.50	2.50	180.00	180.00							46.77	-81.01	20.00	
167-1	DB586-Y	165.00 36.79	0.50	0.40	180.00	180.00							7.36	-12.74	10.00	
163	GLF-940	165.00 36.79	0.50	20.00	180.00	180.00							367.91	-637.24	120.00	
159-A	3' Stand-Off	160.00 36.47	0.50	1.50	180.00	180.00							27.35	-47.37	75.00	
159-B	3' Stand-Off	160.00 36.47	0.50	1.50	300.00	300.00							27.35	-47.37	75.00	
159-1	10x4.6x4 Panel	160.00 36.47	0.50	0.50	180.00	180.00							9.12	-15.79	20.00	
159-2	10x4.6x4 Panel	160.00 36.47	0.50	0.50	300.00	300.00							9.12	-15.79	20.00	
ATT-A	12' T-Arm	150.00 35.80	0.50	10.00	60.00	60.00							179.01	-310.06	600.00	
ATT-B	12' T-Arm	150.00 35.80	0.50	10.00	180.00	180.00							179.01	-310.06	600.00	
ATT-C	12' T-Arm	150.00 35.80	0.50	10.00	300.00	300.00							179.01	-310.06	600.00	
ATT-A1	Powerwave 7770	150.00 35.80	0.50	5.88	60.00	60.00							105.26	-182.32	35.00	
ATT-A2	Powerwave P65-16-XLH-RR	150.00 35.80	0.50	5.88	8.40	8.40							150.37	-260.45	65.00	
ATT-A3	Powerwave 7770	150.00 35.80	0.50	5.88	60.00	60.00							105.26	-182.32	35.00	
ATT-A4	Ericsson RRU	150.00 35.80	0.50	5.45	60.00	60.00							97.56	-168.98	80.00	
ATT-A5	Ericsson RRU	150.00 35.80	0.50	5.45	60.00	60.00							97.56	-168.98	80.00	
ATT-A6	Ericsson RRU	150.00 35.80	0.50	5.45	60.00	60.00							17.90	-31.01	15.00	
ATT-A7	TNA	150.00 35.80	0.50	1.00	60.00	60.00							17.90	-31.01	15.00	
ATT-A8	TNA	150.00 35.80	0.50	1.00	60.00	60.00							17.90	-31.01	15.00	
ATT-A9	TNA	150.00 35.80	0.50	1.00	60.00	60.00							17.90	-31.01	15.00	
ATT-A10	Raycep Surge Suppressor	150.00 35.80	0.50	1.00	60.00	60.00							22.73	-39.38	20.00	
ATT-B1	Powerwave 7770	150.00 35.80	0.50	5.88	180.00	180.00							105.26	-182.32	35.00	
ATT-B2	Powerwave P65-16-XLH-RR	150.00 35.80	0.50	5.88	180.00	180.00							150.37	-260.45	65.00	
ATT-B3	Powerwave 7770	150.00 35.80	0.50	5.88	180.00	180.00							105.26	-182.32	35.00	
ATT-B4	Ericsson RRU	150.00 35.80	0.50	5.45	180.00	180.00							97.56	-168.98	80.00	
ATT-B5	Ericsson RRU	150.00 35.80	0.50	5.45	180.00	180.00							97.56	-168.98	80.00	
ATT-B6	Ericsson RRU	150.00 35.80	0.50	5.45	180.00	180.00							17.90	-31.01	15.00	
ATT-B7	TNA	150.00 35.80	0.50	1.00	180.00	180.00							17.90	-31.01	15.00	
ATT-B8	TNA	150.00 35.80	0.50	1.00	180.00	180.00							17.90	-31.01	15.00	
ATT-B9	TNA	150.00 35.80	0.50	1.00	180.00	180.00							17.90	-31.01	15.00	
ATT-C1	Powerwave 7770	150.00 35.80	0.50	5.88	300.00	300.00							105.26	-182.32	35.00	
ATT-C2	Powerwave P65-16-XLH-RR	150.00 35.80	0.50	5.88	300.00	300.00							150.37	-260.45	65.00	
ATT-C3	Powerwave 7770	150.00 35.80	0.50	5.88	300.00	300.00							105.26	-182.32	35.00	
ATT-C4	Ericsson RRU	150.00 35.80	0.50	5.45	300.00	300.00							97.56	-168.98	80.00	
ATT-C5	Ericsson RRU	150.00 35.80	0.50	5.45	300.00	300.00							97.56	-168.98	80.00	
ATT-C6	Ericsson RRU	150.00 35.80	0.50	5.45	300.00	300.00							17.90	-31.01	15.00	
ATT-C7	TNA	150.00 35.80	0.50	1.00	300.00	300.00							17.90	-31.01	15.00	
ATT-C8	TNA	150.00 35.80	0.50	1.00	300.00	300.00							17.90	-31.01	15.00	
ATT-C9	TNA	150.00 35.80	0.50	1.00	300.00	300.00							17.90	-31.01	15.00	

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Top-62	3' Stand-Off	180.00	37.72	0.50	1.50	220.00	56.56	0.00	75.00
Top-61	Dipole	180.00	37.72	0.50	6.00	0.00	226.30	0.00	71.00
Top-2a	9' Omni	180.00	37.72	0.50	5.85	120.00	220.65	0.00	172.00
Top-2b	TMA	180.00	37.72	0.50	1.00	120.00	37.72	0.00	15.00
Top-3	4' Dipole	170.00	37.11	0.50	2.00	120.00	74.21	0.00	40.00
Top-5	Scale OCT6-806 w/ Ice	180.00	37.72	0.50	1.98	0.00	74.68	0.00	22.70
Top-6	Scale OCT6-806 w/ Ice	180.00	37.72	0.50	1.98	240.00	74.68	0.00	22.70
Top-7	6' Dish with Radome	180.00	37.72	0.50	29.00	0.00	1093.80	0.00	220.00
Top-8	6' Dish with Radome	180.00	37.72	0.50	29.00	240.00	1093.80	0.00	220.00
Top-9	6' Dish with Radome	175.00	37.41	0.50	29.00	120.00	1085.03	0.00	220.00
176	Scale OCT6-806 w/ Ice	175.00	37.41	0.50	1.98	0.00	74.08	0.00	22.70
173-3	Scale OCT6-806 w/ Ice	175.00	37.41	0.50	1.98	240.00	74.08	0.00	22.70
169-1	10x4.6x4 Panel	170.00	37.11	0.50	0.50	120.00	18.55	0.00	20.00
169-2	TMA	170.00	37.11	0.50	1.00	120.00	37.11	0.00	15.00
170	5' Dish	170.00	37.11	0.50	20.00	0.00	742.12	0.00	200.00
175	Decibel DB80GM-XT	175.00	37.41	0.50	2.50	120.00	93.54	0.00	20.00
167-1	DB86-XT	165.00	36.79	0.50	0.40	120.00	14.72	0.00	10.00
163	GLF-940	165.00	36.79	0.50	20.00	120.00	735.82	0.00	120.00
159-A	3' Stand-Off	160.00	36.47	0.50	1.50	120.00	54.70	0.00	75.00
159-B	3' Stand-Off	160.00	36.47	0.50	1.50	240.00	54.70	0.00	75.00
159-1	10x4.6x4 Panel	160.00	36.47	0.50	0.50	120.00	18.23	0.00	20.00
159-2	10x4.6x4 Panel	160.00	36.47	0.50	0.50	240.00	18.23	0.00	20.00
ATT-A	12' T-Arm	150.00	35.80	0.50	10.00	0.00	358.03	0.00	600.00
ATT-B	12' T-Arm	150.00	35.80	0.50	10.00	120.00	358.03	0.00	600.00
ATT-C	12' T-Arm	150.00	35.80	0.50	10.00	240.00	358.03	0.00	600.00
ATT-A1	Powerwave 7770	150.00	35.80	0.50	5.88	0.00	210.52	0.00	35.00
ATT-A2	Powerwave P55-16-XLH-R	150.00	35.80	0.50	8.40	0.00	300.74	0.00	65.00
ATT-A3	Powerwave 7770	150.00	35.80	0.50	5.88	0.00	210.52	0.00	35.00
ATT-A4	Ericsson RRU	150.00	35.80	0.50	5.45	0.00	195.12	0.00	80.00
ATT-A5	Ericsson RRU	150.00	35.80	0.50	5.45	0.00	195.12	0.00	80.00
ATT-A6	TMA	150.00	35.80	0.50	1.00	0.00	35.80	0.00	15.00
ATT-A7	TMA	150.00	35.80	0.50	1.00	0.00	35.80	0.00	15.00
ATT-A8	TMA	150.00	35.80	0.50	1.00	0.00	35.80	0.00	15.00
ATT-A9	TMA	150.00	35.80	0.50	1.00	0.00	35.80	0.00	15.00
ATT-A10	Raycap Surge Suppressor	150.00	35.80	0.50	1.27	0.00	45.47	0.00	20.00
ATT-B1	Powerwave P55-16-XLH-R	150.00	35.80	0.50	5.88	120.00	210.52	0.00	35.00
ATT-B2	Powerwave 7770	150.00	35.80	0.50	8.40	120.00	300.74	0.00	65.00
ATT-B3	Powerwave 7770	150.00	35.80	0.50	5.88	120.00	210.52	0.00	35.00
ATT-B4	Ericsson RRU	150.00	35.80	0.50	5.45	120.00	195.12	0.00	80.00
ATT-B5	Ericsson RRU	150.00	35.80	0.50	5.45	120.00	195.12	0.00	80.00
ATT-B6	TMA	150.00	35.80	0.50	1.00	120.00	35.80	0.00	15.00
ATT-B7	TMA	150.00	35.80	0.50	1.00	120.00	35.80	0.00	15.00
ATT-B8	TMA	150.00	35.80	0.50	1.00	120.00	35.80	0.00	15.00
ATT-B9	TMA	150.00	35.80	0.50	1.00	120.00	35.80	0.00	15.00
ATT-C1	Powerwave 7770	150.00	35.80	0.50	5.88	240.00	210.52	0.00	35.00
ATT-C2	Powerwave P55-16-XLH-R	150.00	35.80	0.50	8.40	240.00	300.74	0.00	65.00
ATT-C3	Powerwave 7770	150.00	35.80	0.50	5.88	240.00	210.52	0.00	35.00
ATT-C4	Ericsson RRU	150.00	35.80	0.50	5.45	240.00	195.12	0.00	80.00
ATT-C5	Ericsson RRU	150.00	35.80	0.50	5.45	240.00	195.12	0.00	80.00
ATT-C6	TMA	150.00	35.80	0.50	1.00	240.00	35.80	0.00	15.00
ATT-C7	TMA	150.00	35.80	0.50	1.00	240.00	35.80	0.00	15.00
ATT-C8	TMA	150.00	35.80	0.50	1.00	240.00	35.80	0.00	15.00
ATT-C9	TMA	150.00	35.80	0.50	1.00	240.00	35.80	0.00	15.00
143-A	3' Stand-Off	145.00	35.46	0.50	1.50	120.00	53.19	0.00	75.00
143-1	6' Omni	145.00	35.46	0.50	2.50	120.00	88.64	0.00	50.00
139	5' Dipole	140.00	35.10	0.50	2.50	0.00	87.76	0.00	50.00
137	8' Omni	140.00	35.10	0.50	1.60	240.00	56.17	0.00	160.00
T-Mobile-1	ENS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	0.00	167.45	0.00	40.40
T-Mobile-2	TMA	140.00	35.10	0.50	1.00	0.00	35.10	0.00	15.00
T-Mobile-3	TMA	140.00	35.10	0.50	1.00	0.00	35.10	0.00	15.00
T-Mobile-4	ENS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	120.00	167.45	0.00	40.40
T-Mobile-5	TMA	140.00	35.10	0.50	1.00	120.00	35.10	0.00	15.00
T-Mobile-6	TMA	140.00	35.10	0.50	1.00	120.00	35.10	0.00	15.00
T-Mobile-7	ENS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	240.00	167.45	0.00	40.40
T-Mobile-8	TMA	140.00	35.10	0.50	1.00	240.00	35.10	0.00	15.00
Verizon-A	12' T-Arm	133.34	34.62	0.50	10.00	0.00	346.18	0.00	600.00
Verizon-B	12' T-Arm	133.34	34.62	0.50	10.00	120.00	346.18	0.00	600.00
Verizon-C	12' T-Arm	133.34	34.62	0.50	10.00	240.00	346.18	0.00	600.00
Verizon-1	Powerwave P55-16-XL-2	133.34	34.62	0.50	8.54	0.00	295.64	0.00	70.00
Verizon-2	Andrew DB84480-Xt	133.34	34.62	0.50	3.58	0.00	123.93	0.00	40.00
Verizon-3	Andrew DB84480-Xt	133.34	34.62	0.50	3.58	0.00	123.93	0.00	40.00
Verizon-4	Rysma MG D3-800T0	133.34	34.62	0.50	3.56	0.00	123.24	0.00	30.00

159-B	3' Stand-Off	160.00	36.47	0.50	1.50	180.00	27.35	47.37	75.00
159-1	10x4.6x4 Panel	160.00	36.47	0.50	0.50	60.00	9.12	15.79	20.00
159-2	10x4.6x4 Panel	160.00	36.47	0.50	0.50	180.00	9.12	15.79	20.00
ATT-A	12' T-Arm	150.00	35.80	0.50	10.00	300.00	179.01	310.06	600.00
ATT-B	12' T-Arm	150.00	35.80	0.50	10.00	60.00	179.01	310.06	600.00
ATT-C	12' T-Arm	150.00	35.80	0.50	10.00	180.00	179.01	310.06	600.00
ATT-X1	Powerwave 7770	150.00	35.80	0.50	5.88	300.00	150.37	260.45	65.00
ATT-X2	Powerwave P65-16-XLH-RR	150.00	35.80	0.50	8.40	300.00	105.26	182.32	35.00
ATT-X3	Powerwave 7770	150.00	35.80	0.50	5.88	300.00	105.26	182.32	35.00
ATT-X4	Ericsson RRU	150.00	35.80	0.50	5.45	300.00	97.56	168.98	80.00
ATT-X5	Ericsson RRU	150.00	35.80	0.50	5.45	300.00	97.56	168.98	80.00
ATT-X6	Ericsson RRU	150.00	35.80	0.50	5.45	300.00	97.56	168.98	80.00
ATT-X7	TMA	150.00	35.80	0.50	1.00	300.00	17.90	31.01	15.00
ATT-X8	TMA	150.00	35.80	0.50	1.00	300.00	17.90	31.01	15.00
ATT-X9	TMA	150.00	35.80	0.50	1.00	300.00	17.90	31.01	15.00
ATT-A10	Raycap Surge Suppressor	150.00	35.80	0.50	1.27	300.00	22.73	39.38	20.00
ATT-B1	Powerwave 7770	150.00	35.80	0.50	5.88	60.00	150.37	260.45	65.00
ATT-B2	Powerwave P65-16-XLH-RR	150.00	35.80	0.50	8.40	60.00	105.26	182.32	35.00
ATT-B3	Powerwave 7770	150.00	35.80	0.50	5.88	60.00	105.26	182.32	35.00
ATT-B4	Ericsson RRU	150.00	35.80	0.50	5.45	60.00	97.56	168.98	80.00
ATT-B5	Ericsson RRU	150.00	35.80	0.50	5.45	60.00	97.56	168.98	80.00
ATT-B6	Ericsson RRU	150.00	35.80	0.50	5.45	60.00	97.56	168.98	80.00
ATT-B7	TMA	150.00	35.80	0.50	1.00	60.00	17.90	31.01	15.00
ATT-B8	TMA	150.00	35.80	0.50	1.00	60.00	17.90	31.01	15.00
ATT-B9	TMA	150.00	35.80	0.50	1.00	60.00	17.90	31.01	15.00
ATT-C1	Powerwave 7770	150.00	35.80	0.50	5.88	180.00	105.26	182.32	35.00
ATT-C2	Powerwave P65-16-XLH-RR	150.00	35.80	0.50	8.40	180.00	105.26	182.32	35.00
ATT-C3	Powerwave 7770	150.00	35.80	0.50	5.88	180.00	105.26	182.32	35.00
ATT-C4	Ericsson RRU	150.00	35.80	0.50	5.45	180.00	97.56	168.98	80.00
ATT-C5	Ericsson RRU	150.00	35.80	0.50	5.45	180.00	97.56	168.98	80.00
ATT-C6	Ericsson RRU	150.00	35.80	0.50	5.45	180.00	97.56	168.98	80.00
ATT-C7	TMA	150.00	35.80	0.50	1.00	180.00	17.90	31.01	15.00
ATT-C8	TMA	150.00	35.80	0.50	1.00	180.00	17.90	31.01	15.00
ATT-C9	TMA	150.00	35.80	0.50	1.00	180.00	17.90	31.01	15.00
143-A	3' Stand-Off	145.00	35.46	0.50	1.50	60.00	26.59	46.06	75.00
143-1	6' Omni	145.00	35.46	0.50	2.50	60.00	44.32	76.77	50.00
139	5' Dipole	140.00	35.10	0.50	2.50	300.00	43.88	76.00	50.00
137	8' Omni	140.00	35.10	0.50	1.60	180.00	28.08	48.64	150.00
T-Mobile-1	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	300.00	83.72	145.01	40.40
T-Mobile-2	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	300.00	17.55	30.40	15.00
T-Mobile-3	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	300.00	17.55	30.40	15.00
T-Mobile-4	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	60.00	83.72	145.01	40.40
T-Mobile-5	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	60.00	17.55	30.40	15.00
T-Mobile-6	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	60.00	17.55	30.40	15.00
T-Mobile-7	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	4.77	180.00	83.72	145.01	40.40
T-Mobile-8	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	180.00	17.55	30.40	15.00
T-Mobile-9	EMS RR90-17-XXDP w/ Ice	140.00	35.10	0.50	1.00	180.00	17.55	30.40	15.00
Verizon-A	12' T-Arm	133.34	34.62	0.50	10.00	300.00	173.09	299.80	600.00
Verizon-B	12' T-Arm	133.34	34.62	0.50	10.00	60.00	173.09	299.80	600.00
Verizon-C	12' T-Arm	133.34	34.62	0.50	10.00	180.00	173.09	299.80	600.00
Verizon-1	Powerwave P65-15-XL-2	133.34	34.62	0.50	8.54	300.00	117.82	256.03	70.00
Verizon-2	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	300.00	61.97	107.33	40.00
Verizon-3	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	300.00	61.97	107.33	40.00
Verizon-4	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	300.00	61.97	107.33	40.00
Verizon-5	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	300.00	61.97	107.33	40.00
Verizon-6	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	60.00	61.97	107.33	40.00
Verizon-7	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	60.00	61.97	107.33	40.00
Verizon-8	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	60.00	61.97	107.33	40.00
Verizon-9	Powerwave P65-15-XL-2	133.34	34.62	0.50	8.54	180.00	117.82	256.03	70.00
Verizon-10	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	180.00	61.97	107.33	40.00
Verizon-11	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	180.00	61.97	107.33	40.00
Verizon-12	Powerwave DB844H80-XY	133.34	34.62	0.50	3.58	180.00	61.97	107.33	40.00
Sprint-A	12' T-Arm	120.00	33.59	0.50	10.00	300.00	167.96	290.91	600.00
Sprint-B	12' T-Arm	120.00	33.59	0.50	10.00	60.00	167.96	290.91	600.00
Sprint-C	12' T-Arm	120.00	33.59	0.50	10.00	180.00	167.96	290.91	600.00
Sprint-1	Decibel DB980	120.00	33.59	0.50	4.30	300.00	72.22	125.09	30.00
Sprint-2	Decibel DB980	120.00	33.59	0.50	4.30	300.00	72.22	125.09	30.00
Sprint-3	Decibel DB980	120.00	33.59	0.50	4.30	60.00	72.22	125.09	30.00
Sprint-4	Decibel DB980	120.00	33.59	0.50	4.30	180.00	72.22	125.09	30.00
Sprint-5	Decibel DB980	120.00	33.59	0.50	4.30	180.00	72.22	125.09	30.00
Sprint-6	Decibel DB980	120.00	33.59	0.50	4.30	180.00	72.22	125.09	30.00
115-A	3' Stand-Off	113.34	33.05	0.50	2.40	60.00	24.36	42.19	75.00
115-1	12' Omni	113.34	33.05	0.50	2.40	60.00	24.36	42.19	75.00
105-A	3' Stand-Off	106.66	32.48	0.50	1.50	60.00	24.36	42.19	75.00

Equipment Load Case Information for "DL + Ice Only":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzch (psf)	Ice Thick. (in)	Total Wind Area (ft ²)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CW	Antenna Axial Load (lbs)	Antenna Side Load (lbs)	Antenna Moment (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
Top-A	3' Stand-Off	180.00	0.00	0.50	1.50	0.00							0.00	0.00	75.00
Top-B	3' Stand-Off	180.00	0.00	0.50	1.50	120.00							0.00	0.00	75.00
Top-C1	3' Stand-Off	180.00	0.00	0.50	1.50	260.00							0.00	0.00	75.00
Top-C2	3' Stand-Off	180.00	0.00	0.50	1.50	220.00							0.00	0.00	75.00
Top-1	Dipole	180.00	0.00	0.50	6.00	0.00							0.00	0.00	71.00
Top-2a	9' Omni	180.00	0.00	0.50	5.85	120.00							0.00	0.00	172.00
Top-2b	TMA	180.00	0.00	0.50	1.00	120.00							0.00	0.00	15.00
Top-3	4' Dipole	170.00	0.00	0.50	2.00	120.00							0.00	0.00	40.00
Top-5	Scale OGT6-806 w/ ice	180.00	0.00	0.50	1.98	0.00							0.00	0.00	22.70
Top-6	Scale OGT6-806 w/ ice	180.00	0.00	0.50	1.98	240.00							0.00	0.00	220.00
Top-7	6' Dish with Radome	180.00	0.00	0.50	29.00	0.00							0.00	0.00	220.00
Top-8	6' Dish with Radome	180.00	0.00	0.50	29.00	120.00							0.00	0.00	220.00
Top-9	6' Dish with Radome	180.00	0.00	0.50	29.00	240.00							0.00	0.00	220.00
Top-9	6' Dish with Radome	175.00	0.00	0.50	29.00	120.00							0.00	0.00	220.00
176-1	Scale OGT6-806 w/ ice	175.00	0.00	0.50	1.98	0.00							0.00	0.00	22.70
173-3	Scale OGT6-806 w/ ice	175.00	0.00	0.50	1.98	240.00							0.00	0.00	20.00
169-1	Scale OGT6-806 w/ ice	170.00	0.00	0.50	0.50	120.00							0.00	0.00	20.00
169-2	10x4.6x4 Panel	170.00	0.00	0.50	1.00	120.00							0.00	0.00	15.00
170	TMA	170.00	0.00	0.50	20.00	0.00							0.00	0.00	200.00
175	5' Dish	170.00	0.00	0.50	2.50	120.00							0.00	0.00	20.00
167-1	Decibel DB806M-XT	165.00	0.00	0.50	0.40	120.00							0.00	0.00	10.00
163	DB588-Y	165.00	0.00	0.50	20.00	120.00							0.00	0.00	120.00
159-A	GLF-940	160.00	0.00	0.50	1.50	120.00							0.00	0.00	75.00
159-A	3' Stand-Off	160.00	0.00	0.50	1.50	240.00							0.00	0.00	20.00
159-B	3' Stand-Off	160.00	0.00	0.50	1.50	240.00							0.00	0.00	20.00
159-1	10x4.6x4 Panel	160.00	0.00	0.50	0.50	120.00							0.00	0.00	20.00
159-2	10x4.6x4 Panel	160.00	0.00	0.50	0.50	240.00							0.00	0.00	600.00
ATT-A	12' T-Arm	150.00	0.00	0.50	10.00	120.00							0.00	0.00	600.00
ATT-B	12' T-Arm	150.00	0.00	0.50	10.00	120.00							0.00	0.00	35.00
ATT-C	12' T-Arm	150.00	0.00	0.50	5.88	0.00							0.00	0.00	65.00
ATT-A1	Powerwave 7770	150.00	0.00	0.50	8.40	0.00							0.00	0.00	35.00
ATT-A2	Powerwave P65-16-XLM-RR	150.00	0.00	0.50	5.88	0.00							0.00	0.00	80.00
ATT-A3	Powerwave 7770	150.00	0.00	0.50	5.88	0.00							0.00	0.00	15.00
ATT-A4	Powerwave 7770	150.00	0.00	0.50	5.45	0.00							0.00	0.00	15.00
ATT-A5	Ericsson RRU	150.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
ATT-A6	Ericsson RRU	150.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
ATT-A7	TMA	150.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
ATT-A8	TMA	150.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
ATT-A9	TMA	150.00	0.00	0.50	1.00	0.00							0.00	0.00	20.00
ATT-A10	Raycap Surge Suppressor	150.00	0.00	0.50	1.27	0.00							0.00	0.00	35.00
ATT-B1	Powerwave 7770	150.00	0.00	0.50	8.40	120.00							0.00	0.00	35.00
ATT-B2	Powerwave P65-16-XLM-RR	150.00	0.00	0.50	5.88	120.00							0.00	0.00	80.00
ATT-B3	Powerwave 7770	150.00	0.00	0.50	5.88	120.00							0.00	0.00	15.00
ATT-B4	Powerwave 7770	150.00	0.00	0.50	5.45	120.00							0.00	0.00	15.00
ATT-B5	Ericsson RRU	150.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
ATT-B6	Ericsson RRU	150.00	0.00	0.50	1.00	120.00							0.00	0.00	15.00
ATT-B7	TMA	150.00	0.00	0.50	1.00	120.00							0.00	0.00	15.00
ATT-B8	TMA	150.00	0.00	0.50	1.00	120.00							0.00	0.00	15.00
ATT-B9	TMA	150.00	0.00	0.50	1.00	120.00							0.00	0.00	35.00
ATT-C1	Powerwave 7770	150.00	0.00	0.50	8.40	240.00							0.00	0.00	35.00
ATT-C2	Powerwave P65-16-XLM-RR	150.00	0.00	0.50	5.88	240.00							0.00	0.00	80.00
ATT-C3	Powerwave 7770	150.00	0.00	0.50	5.88	240.00							0.00	0.00	15.00
ATT-C4	Powerwave 7770	150.00	0.00	0.50	5.45	240.00							0.00	0.00	15.00
ATT-C5	Ericsson RRU	150.00	0.00	0.50	1.00	240.00							0.00	0.00	15.00
ATT-C6	Ericsson RRU	150.00	0.00	0.50	1.00	240.00							0.00	0.00	15.00
ATT-C7	TMA	150.00	0.00	0.50	1.00	240.00							0.00	0.00	15.00
ATT-C8	TMA	150.00	0.00	0.50	1.00	240.00							0.00	0.00	15.00
ATT-C9	TMA	150.00	0.00	0.50	1.00	120.00							0.00	0.00	75.00
143-A	3' Stand-Off	145.00	0.00	0.50	2.50	120.00							0.00	0.00	50.00
143-1	6' Omni	145.00	0.00	0.50	2.50	0.00							0.00	0.00	50.00
139	5' Dipole	140.00	0.00	0.50	2.50	0.00							0.00	0.00	40.48
137	8' Omni	140.00	0.00	0.50	4.77	0.00							0.00	0.00	15.00
T-Mobile-1	EMS RR30-17-XXDF w/ ice	140.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00
T-Mobile-2	TMA	140.00	0.00	0.50	1.00	0.00							0.00	0.00	15.00

EIA Section Load Case Information for "DL + Ice Only":

*** Analysis Results:

Maximum element usage is 98.21% for Angle "Rohn-DB61" in load case "W+1 0 deg"

Angle Forces for All Load Cases:

Positive for tension - negative for compression

Group	Angle	Max. Usage	Max. Tens.	Max. Comp.	LC 1	LC 2	LC 3	LC 4	LC 5	LC 6
Label	Label	For All LC	For All LC	For All LC	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)
Rohn-D1	Rohn-DA1P	23.45	1.405	-1.127	-1.127	-0.531	0.489	1.405	1.111	-0.009
Rohn-D1	Rohn-DA1L	42.31	1.959	-2.034	-1.959	1.986	0.400	-1.541	-2.034	-0.038
Rohn-D1	Rohn-DA12	31.20	0.752	-1.500	-0.752	-1.408	-1.500	-0.081	0.752	-0.016
Rohn-D1	Rohn-DA2P	19.87	1.356	-0.995	0.995	1.356	-0.252	-0.935	-0.935	-0.024
Rohn-D1	Rohn-DA2L	43.04	0.764	-2.069	0.764	-0.349	-2.069	-1.729	-0.831	-0.035
Rohn-D1	Rohn-DA22	28.69	1.422	-1.379	-1.379	-0.955	0.467	1.422	1.369	-0.004
Rohn-D1	Rohn-DA3P	23.27	1.949	-1.052	-1.052	0.065	1.949	1.844	1.004	-0.023
Rohn-D1	Rohn-DA3L	48.84	2.203	-2.207	2.106	-2.203	0.735	-1.516	-2.207	-0.053
Rohn-D1	Rohn-DA32	34.03	0.523	-1.538	-0.595	-1.244	-1.538	-0.291	0.523	-0.031
Rohn-D1	Rohn-DA4P	25.65	1.639	-1.159	1.077	1.639	-1.414	-0.285	-1.159	-0.041
Rohn-D1	Rohn-DA4L	54.73	0.257	-2.473	0.257	-0.982	-2.473	-1.504	-0.351	-0.049
Rohn-D1	Rohn-DA42	42.27	1.875	-1.910	-1.910	-1.766	-0.251	1.501	1.875	-0.018
Rohn-D1	Rohn-DA5P	37.67	2.455	-1.602	-1.602	-0.285	2.194	2.455	1.576	-0.016
Rohn-D1	Rohn-DA5L	52.36	2.156	-2.236	2.156	2.094	0.441	-1.632	-2.236	-0.039
Rohn-D1	Rohn-DA52	33.92	0.863	-1.443	-0.927	-1.443	-1.337	0.123	0.863	-0.022
Rohn-D1	Rohn-DA6P	33.99	1.852	-2.343	0.948	-0.320	-2.343	-2.018	-1.446	-0.031
Rohn-D1	Rohn-DA6L	55.09	0.948	-2.146	-2.146	-1.974	-0.257	1.713	2.126	-0.035
Rohn-D1	Rohn-DA62	50.46	2.126	-1.199	1.122	1.609	-1.293	-0.386	-1.199	-0.038
Rohn-D1	Rohn-DA7P	29.92	1.609	-3.221	0.913	-0.766	-3.221	-2.433	-1.009	-0.046
Rohn-D1	Rohn-DA7L	80.39	0.913	-2.120	-2.120	-0.385	-2.247	2.070	2.070	-0.025
Rohn-D1	Rohn-DA72	52.91	2.070	-1.146	-1.146	-0.130	2.247	2.060	1.091	-0.026
Rohn-D1	Rohn-DA8P	28.59	2.247	-2.618	2.522	2.699	1.018	-1.727	-2.618	-0.051
Rohn-D1	Rohn-DA8L	65.34	2.699	-1.775	-1.143	-1.775	-1.650	0.144	1.093	-0.033
Rohn-D1	Rohn-DA82	44.30	1.083	-1.775	-1.143	-1.775	-1.650	0.144	1.093	-0.033
Rohn-D1	Rohn-DA82	32.24	3.506	-1.234	-1.234	0.678	3.506	2.778	1.217	-0.019
Rohn-D1	Rohn-DA82	56.98	3.156	-2.254	3.156	2.854	0.239	-2.672	-3.254	-0.039
Rohn-D1	Rohn-DA82	43.58	1.716	-2.489	-1.766	-2.489	0.537	1.716	-0.028	-0.029
Rohn-D2	Rohn-DB1P	21.44	2.206	-1.224	1.191	2.104	2.206	0.044	-1.224	-0.029
Rohn-D2	Rohn-DB1L	56.86	1.755	-3.247	1.755	-0.055	-3.247	-3.162	-1.824	-0.039
Rohn-D2	Rohn-DB2P	57.44	3.199	-3.287	3.287	-0.505	-3.287	2.289	3.199	-0.038
Rohn-D2	Rohn-DB2L	37.57	2.913	-2.026	-2.026	-0.505	2.517	2.913	1.929	-0.038
Rohn-D2	Rohn-DB3P	51.75	3.011	-2.791	2.697	3.011	1.358	-0.656	-2.791	-0.055
Rohn-D2	Rohn-DB3L	41.78	0.500	-2.253	-0.592	-1.571	-2.253	-0.655	-0.500	-0.048
Rohn-D2	Rohn-DB32	37.85	2.332	-2.042	1.927	2.332	1.326	-2.164	-2.042	-0.055
Rohn-D2	Rohn-DB4P	63.89	0.486	-3.446	0.486	-1.260	-3.446	-2.164	-0.589	-0.055
Rohn-D2	Rohn-DB4L	51.35	2.716	-2.780	-2.780	-2.291	0.165	2.430	2.716	-0.039
Rohn-D2	Rohn-DB42	53.46	4.498	-2.726	-2.726	4.471	4.498	2.631	4.498	-0.056
Rohn-D2	Rohn-DB5P	96.17	4.761	-4.904	1.761	4.572	0.861	-3.775	-4.904	-0.071
Rohn-D2	Rohn-DB5L	75.13	1.911	-3.831	-2.061	-3.831	-0.202	1.911	-0.064	-0.064
Rohn-D2	Rohn-DB52	52.98	3.895	-2.701	2.595	3.895	3.328	-0.684	-2.701	-0.063
Rohn-D2	Rohn-DB6P	98.21	1.919	-5.008	1.919	-0.784	-5.008	-4.237	-2.080	-0.071
Rohn-D2	Rohn-DB6L	95.44	4.752	-4.867	-4.867	-4.302	-0.246	4.009	4.752	-0.057
Rohn-D2	Rohn-DB62	25.03	5.258	-2.256	-2.256	0.684	5.258	4.401	2.095	-0.074
Rohn-D2	Rohn-DB7P	60.12	5.219	-5.418	5.219	-4.602	0.177	-4.536	-5.418	-0.088
Rohn-D2	Rohn-DB7L	49.18	2.804	-4.432	-2.930	-4.432	0.520	2.804	-2.804	-0.084
Rohn-D2	Rohn-DB72	25.60	4.131	-2.307	2.135	3.867	4.131	0.084	-2.307	-0.081
Rohn-D2	Rohn-DB8P	57.36	2.765	-3.110	2.765	-0.113	-3.110	-5.004	-2.900	-0.089
Rohn-D2	Rohn-DB8L	59.23	5.157	-5.338	-5.338	-5.084	1.051	3.933	5.157	-0.077
Rohn-D2	Rohn-DB82	51.71	5.606	-4.109	-4.109	-1.252	4.587	5.606	3.817	-0.153
Rohn-D3	Rohn-DC1P	72.07	5.626	-5.728	5.415	5.626	1.807	-3.983	-5.728	-0.165
Rohn-D3	Rohn-DC1L	64.74	1.261	-5.145	-1.615	-3.840	-5.145	-1.372	1.261	-0.163
Rohn-D3	Rohn-DC12	51.70	4.993	-4.108	3.807	4.993	3.367	-1.859	-4.108	-0.158
Rohn-D3	Rohn-DC2P	79.25	1.306	-6.298	1.306	-1.907	-6.298	-4.461	-1.667	-0.168
Rohn-D3	Rohn-DC2L	72.54	5.472	-5.765	-5.765	-4.590	0.669	5.472	-0.156	-0.156
Rohn-D3	Rohn-DC22	52.42	5.700	-2.940	-2.940	0.288	5.700	5.299	2.888	-0.031
Rohn-D3	Rohn-DC3P	81.04	5.930	-6.048	5.930	5.398	0.547	-4.921	-6.048	-0.041
Rohn-D3	Rohn-DC3L	64.84	2.879	-4.839	-2.944	-4.839	-4.723	0.201	2.879	-0.039
Rohn-D3	Rohn-DC32	43.57	4.738	-2.939	2.861	4.738	4.613	-0.252	-2.939	-0.035
Rohn-D3	Rohn-DC4P	78.37	2.858	-5.849	2.858	-0.379	-5.849	-5.392	-2.934	-0.044
Rohn-D3	Rohn-DC4L	80.62	5.916	-6.017	-6.017	-5.452	-0.561	4.829	5.916	-0.032
Rohn-D3	Rohn-DC5P	49.47	5.380	-3.247	-3.247	-0.096	5.380	5.218	-2.943	-0.157
Rohn-D3	Rohn-DC5L	86.12	5.694	-6.062	5.694	5.270	0.619	-4.849	-6.062	-0.173

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Rohn-D3	Rohn-DC52	70.19	2.471	-4.941	-2.792	-4.760	-4.941	-0.210	2.471	-0.164
Rohn-D3	Rohn-DC6P	46.40	4.691	-3.267	2.953	4.691	-3.267	-0.647	-3.267	-0.162
Rohn-D3	Rohn-DC61	46.94	2.465	-5.979	2.465	-0.733	-5.979	-5.285	-2.805	-0.174
Rohn-D3	Rohn-DC62	86.22	5.730	-6.070	-6.070	-5.383	-0.421	4.777	5.730	-0.158
Rohn-D4	Rohn-DD1E	48.42	6.050	-4.122	-4.122	-0.692	5.731	6.056	3.677	-0.253
Rohn-D4	Rohn-DD1E	81.88	6.469	-7.055	6.469	8.144	0.958	-5.503	-7.055	-0.279
Rohn-D4	Rohn-DD12	69.93	2.411	-6.026	-2.958	-5.360	-6.026	-0.757	-2.411	-0.263
Rohn-D4	Rohn-DD2P	48.28	5.538	-4.160	3.648	5.538	4.747	-1.168	-4.160	-0.262
Rohn-D4	Rohn-DD21	82.11	2.405	-7.074	2.405	-1.281	-7.074	-5.923	-2.964	-0.280
Rohn-D4	Rohn-DD22	81.06	6.451	-6.984	-6.984	-5.992	-0.004	5.642	6.451	-0.253
Rohn-D4	Rohn-DD3P	43.75	6.344	-2.892	-2.892	6.344	5.595	2.913	5.595	-0.005
Rohn-D4	Rohn-DD31	81.87	6.531	-6.650	6.531	5.744	0.217	5.605	-6.650	-0.026
Rohn-D4	Rohn-DD32	67.36	3.445	-5.471	-3.471	-5.471	-5.091	0.523	3.445	-0.011
Rohn-D4	Rohn-DD4P	36.84	5.342	-2.905	2.886	5.082	5.342	0.127	-2.905	-0.011
Rohn-D4	Rohn-DD41	76.06	3.407	-6.177	3.407	-0.050	-6.177	-6.001	-3.461	-0.026
Rohn-D4	Rohn-DD42	80.77	8.500	-3.500	-6.500	-0.802	5.196	6.500	0.005	-0.005
Rohn-D4	Rohn-DD4E	50.19	3.601	-3.857	-3.857	-0.599	3.345	3.408	-0.233	-0.233
Rohn-D4	Rohn-DD52	85.32	5.965	-6.557	5.965	5.715	1.005	-5.049	-6.557	-0.262
Rohn-D4	Rohn-DD52	72.56	2.156	-5.576	-2.626	-4.899	-5.576	-0.740	-2.156	-0.247
Rohn-D4	Rohn-DD6P	50.29	3.865	-3.865	3.369	5.072	4.305	-1.124	-3.865	-0.247
Rohn-D4	Rohn-DD6P	86.33	2.141	-6.635	2.141	-1.280	-6.635	-5.429	-2.639	-0.262
Rohn-D4	Rohn-DD62	84.86	5.988	-6.522	-6.522	-5.530	0.014	5.229	5.988	-0.233
Rohn-D5	Rohn-DD1P	28.31	4.600	-3.239	-3.239	-0.506	4.478	4.600	2.711	-0.265
Rohn-D5	Rohn-DD11	42.92	1.713	-4.650	1.885	4.684	0.776	-4.234	-5.490	-0.294
Rohn-D5	Rohn-DD12	36.24	1.713	-3.253	-2.273	4.096	-4.635	-1.022	-3.263	-0.280
Rohn-D5	Rohn-DD2P	25.51	4.096	-3.253	2.706	4.096	3.475	-1.022	-4.593	-0.294
Rohn-D5	Rohn-DD21	43.93	1.692	-3.620	1.692	-1.165	-5.620	-4.593	-2.781	-0.264
Rohn-D5	Rohn-DD22	42.84	4.932	-5.480	-5.480	-4.720	-0.190	4.232	4.932	-0.264
Rohn-D5	Rohn-DD31	36.51	5.933	-2.321	-2.321	0.948	5.933	4.796	2.216	-0.077
Rohn-D5	Rohn-DD31	50.90	5.866	-6.159	5.866	4.931	-0.323	-5.422	-6.159	-0.100
Rohn-D5	Rohn-DD32	43.53	3.431	-5.267	-3.603	-5.267	-4.493	0.853	3.431	-0.089
Rohn-D5	Rohn-DD4P	30.65	4.980	-2.306	2.172	4.288	4.980	0.492	-2.306	-0.092
Rohn-D5	Rohn-DD41	47.72	3.432	-6.098	3.432	0.358	-5.494	-5.774	-3.622	-0.099
Rohn-D5	Rohn-DD42	50.39	5.858	-6.098	-6.098	-5.825	-1.216	4.465	5.858	-0.075
Rohn-D5	Rohn-DD51	36.27	6.499	-7.051	-4.003	-0.475	5.893	3.428	-0.259	-0.259
Rohn-D5	Rohn-DD51	61.39	6.499	-7.051	6.499	6.040	0.763	-5.564	-7.051	-0.277
Rohn-D5	Rohn-DD52	52.37	2.521	-6.015	-3.019	-5.393	-6.015	-0.659	2.521	-0.265
Rohn-D5	Rohn-DD6P	33.06	3.423	-7.025	3.423	5.422	4.938	-0.970	-4.027	-0.269
Rohn-D5	Rohn-DD61	61.17	2.482	-7.026	2.482	-1.198	-7.026	-3.878	-3.002	-0.275
Rohn-D5	Rohn-DD62	60.85	6.473	-6.989	-6.989	-6.011	-0.222	5.516	6.473	-0.257
Rohn-D6	Rohn-DE1P	46.53	7.561	-4.070	-6.969	-6.011	-0.222	5.516	6.473	-0.257
Rohn-D6	Rohn-DE1P	60.22	7.905	-8.606	7.905	6.956	0.053	-7.320	-8.606	-0.256
Rohn-D6	Rohn-DE12	50.22	3.938	-7.177	-4.510	-7.177	-6.880	0.236	3.938	-0.261
Rohn-D6	Rohn-DE2P	39.98	6.946	-7.918	3.946	-0.274	-7.918	-0.237	-4.078	-0.267
Rohn-D6	Rohn-DE21	55.40	3.946	-7.918	3.946	-0.274	-7.918	-0.271	-4.534	-0.271
Rohn-D6	Rohn-DE22	60.18	7.941	-8.600	-8.600	-7.825	6.479	7.941	7.941	-0.253
Rohn-D6	Rohn-DE3P	42.32	6.876	-4.717	-4.717	-0.600	6.838	4.119	-0.244	-0.244
Rohn-D6	Rohn-DE31	60.43	7.515	-8.111	7.515	6.948	0.947	-6.353	-8.111	-0.258
Rohn-D6	Rohn-DE32	53.02	3.089	-7.115	-3.457	-6.292	-7.115	-0.685	3.089	-0.249
Rohn-D6	Rohn-DE4P	39.30	6.387	-4.126	4.112	6.387	3.860	-1.095	-4.726	-0.253
Rohn-D6	Rohn-DE41	60.37	3.078	-8.102	-8.102	-1.188	-8.102	-6.781	-3.459	-0.255
Rohn-D6	Rohn-DE42	60.28	7.524	-8.090	-8.090	-6.820	-0.008	6.471	7.524	-0.243
Rohn-D6	Rohn-DE51	39.87	6.478	-4.203	-4.203	-0.395	6.407	6.478	3.811	-0.290
Rohn-D6	Rohn-DE51	61.60	7.051	-7.771	7.051	6.528	0.625	-6.330	-7.771	-0.301
Rohn-D6	Rohn-DE61	52.03	2.927	-6.565	-3.629	-6.565	-0.467	2.927	-0.294	-0.294
Rohn-D6	Rohn-DE62	36.99	6.011	-4.209	3.805	6.011	-5.475	-0.866	-4.209	-0.296
Rohn-D6	Rohn-DE6P	59.38	2.924	-7.491	2.924	-0.933	-7.491	-6.714	3.637	-0.300
Rohn-D6	Rohn-DE62	61.52	7.066	-7.761	-7.761	-6.778	-0.275	6.085	7.066	-0.289
Rohn-D6	Rohn-DE62	38.44	6.246	-3.768	-3.768	-0.075	6.246	5.789	-3.247	-0.199
Rohn-D6	Rohn-DE62	59.73	6.363	-7.083	6.363	3.846	0.443	-5.724	-7.083	-0.209
Rohn-D6	Rohn-DE62	50.72	3.103	-6.024	-3.329	-5.658	-6.024	-0.145	3.103	-0.203
Rohn-D6	Rohn-DE62	33.02	5.366	-3.773	3.241	5.366	-0.519	-3.773	-0.205	-0.205
Rohn-D6	Rohn-DE64P	58.12	3.098	-6.902	3.098	-0.589	-6.902	-6.096	-3.333	-0.208
Rohn-D6	Rohn-DE64	59.64	6.574	-7.082	-7.082	-6.146	0.412	5.420	6.574	-0.198
Rohn-D6	Rohn-DE64	37.33	6.065	-4.478	-4.478	-0.664	6.065	5.981	3.262	-0.709
Rohn-D7	Rohn-DH1	50.61	6.664	-8.223	-8.223	-0.019	-6.892	-8.223	-0.717	-0.717
Rohn-D7	Rohn-DH12	42.95	2.675	-6.979	-4.241	-6.832	-6.979	-2.675	-0.712	-0.712
Rohn-D7	Rohn-DH2P	34.24	5.564	-4.482	3.258	5.564	5.231	-1.085	-4.482	-0.713
Rohn-D7	Rohn-DH21	48.08	6.671	-7.813	2.671	-1.150	-7.813	-7.242	-4.246	-0.708
Rohn-D7	Rohn-DH22	50.55	6.713	-8.215	-8.215	-7.256	-0.822	5.629	6.713	-0.717
Rohn-D7	Rohn-DH31	37.99	3.562	-3.562	-3.562	-0.027	6.021	3.728	0.136	-0.136
Rohn-D7	Rohn-DH31	41.16	6.626	-6.543	6.626	6.072	1.070	-5.063	-6.543	0.129
Rohn-D7	Rohn-DH32	35.85	3.085	-5.659	-2.606	-5.002	-5.659	-0.090	3.085	0.133
Rohn-D7	Rohn-DH4P	34.61	5.624	-3.567	3.724	5.624	5.377	-0.428	-3.567	0.132

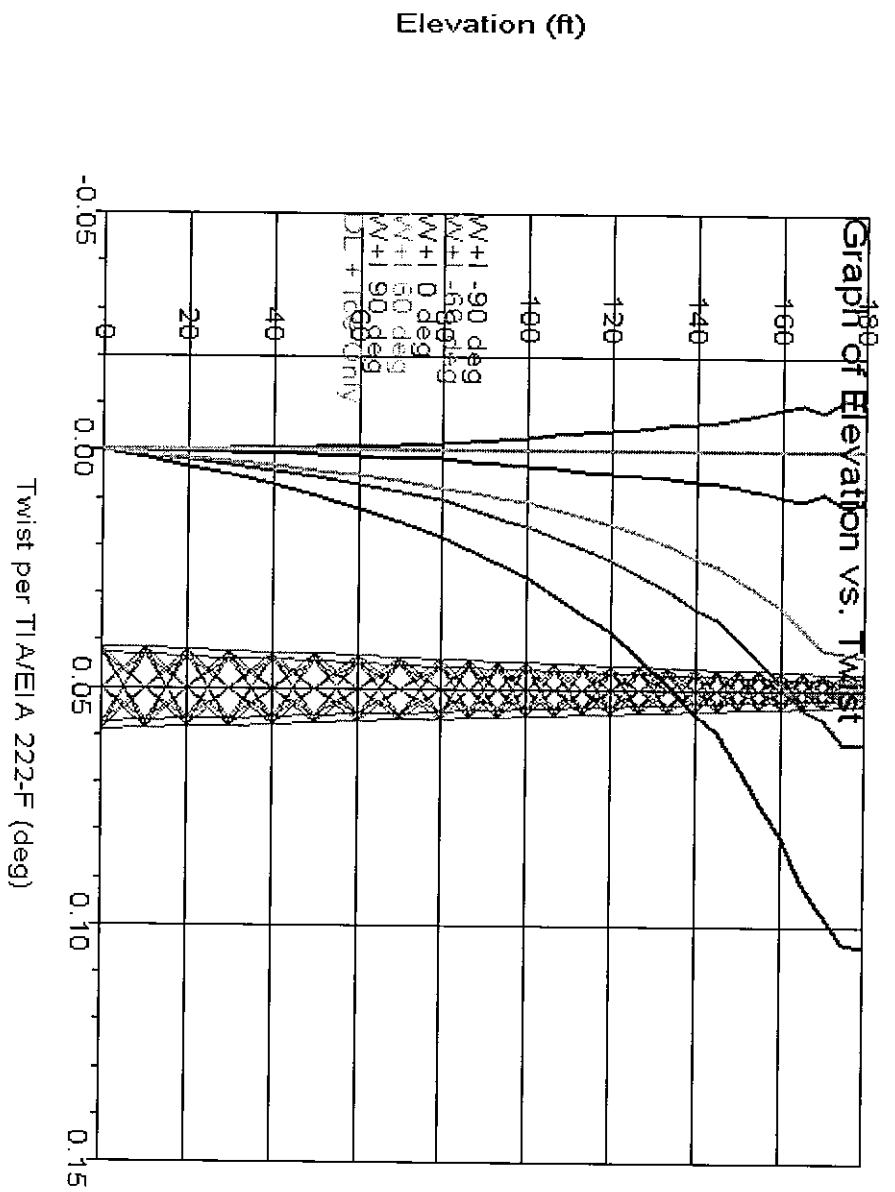
URS Connecticut - butternut hollow greenwich, ct

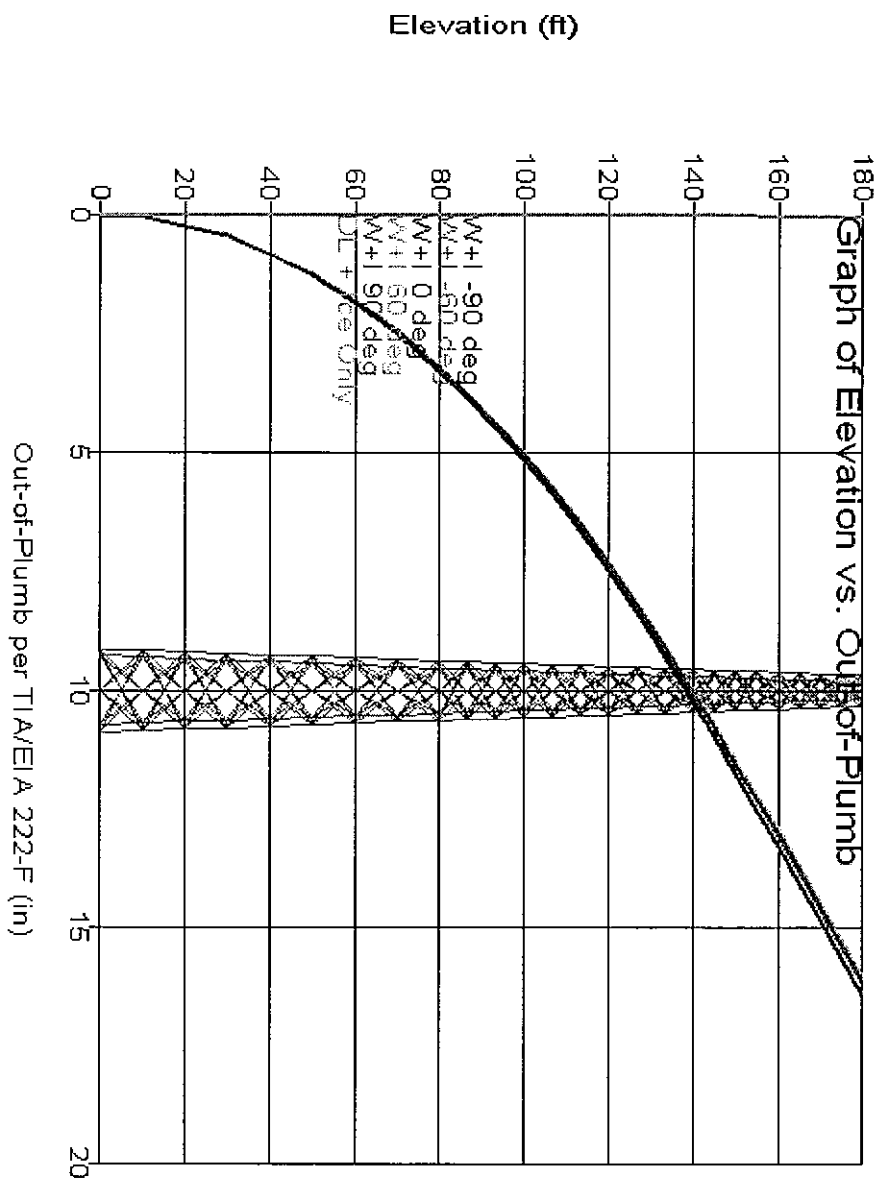
SNB-06	SNB-CH11	35.35	9.348	-11.313	9.348	7.972	-0.599	-9.715	-11.313	-0.784
SNB-06	SNB-CH12	11.66	4.414	-10.130	-5.843	-9.708	-10.130	-0.684	4.414	-0.779
SNB-06	SNB-CH21	25.92	8.296	-5.941	1.453	7.963	8.296	-5.941	-0.779	-0.779
SNB-06	SNB-CH22	31.75	4.408	-10.159	-4.408	-10.159	-10.159	-9.724	-5.848	-0.784
SNB-06	SNB-CH23	35.33	9.355	-11.307	-11.307	-9.720	-0.615	7.968	9.355	-0.777
SNB-06	SNB-CH24	34.73	11.115	-3.858	-3.858	1.761	11.115	10.395	6.520	1.264
SNB-06	SNB-CH25	37.57	12.022	-8.938	12.022	10.390	1.065	-9.459	-9.938	1.256
SNB-06	SNB-CH26	26.48	7.096	-9.473	-9.473	-8.454	-6.973	7.096	1.259	1.259
SNB-06	SNB-CH27	34.64	11.084	-3.863	6.513	10.379	11.084	1.744	-3.863	1.256
SNB-06	SNB-CH28	26.56	7.093	-8.500	7.093	1.740	-8.500	-8.467	-4.995	1.256
SNB-06	SNB-CH29	37.59	12.030	-9.931	-9.931	-8.462	1.051	10.387	12.030	1.264
SNB-06	SNB-CH30	49.73	1.617	-15.914	-15.914	-9.526	1.617	1.095	-3.333	-9.632
SNB-07	SNB-CH11	70.14	2.861	-22.444	2.861	1.088	-9.610	-20.587	-22.444	-9.641
SNB-07	SNB-CH12	65.67	0.000	-21.013	-15.982	-20.578	-21.013	-9.531	-3.267	-9.634
SNB-07	SNB-CH13	49.74	1.585	-15.917	-3.336	1.080	-9.543	-15.917	-9.635	-9.635
SNB-07	SNB-CH14	65.77	0.000	-21.047	-3.274	-9.551	-21.047	-20.596	-15.988	-9.641
SNB-07	SNB-CH15	70.11	2.871	-22.435	-22.435	-20.590	-9.622	1.086	2.871	-9.631
SNB-07	SNB-CH16	20.205	0.000	2.087	8.808	20.205	19.442	14.871	8.430	8.430
SNB-07	SNB-CH17	66.14	21.342	-4.936	21.342	19.434	8.398	-3.028	-4.936	8.420
SNB-07	SNB-CH18	47.70	15.265	-3.372	1.768	-3.021	-3.372	8.800	15.265	8.425
SNB-07	SNB-CH19	63.04	0.000	14.866	19.426	20.172	8.788	2.081	8.424	8.424
SNB-07	SNB-CH20	47.69	15.261	-3.403	15.261	8.782	-3.403	-3.036	1.763	8.420
SNB-07	SNB-CH21	66.73	21.352	-4.927	-4.927	-3.029	8.388	19.434	21.352	8.430
SNB-07	SNB-CH22	0.98	0.000	-0.982	-0.982	-0.982	-0.982	-0.137	-0.319	-0.319
SNB-07	SNB-CH23	1.38	0.866	-1.379	-0.994	-0.997	0.275	0.866	0.685	-0.353
SNB-07	SNB-CH24	0.91	0.519	-0.911	0.306	0.519	0.282	-0.528	-0.911	-0.305
SNB-07	SNB-CH25	3.81	0.000	-3.820	-0.667	-2.274	-3.820	-2.046	-0.406	-0.545
SNB-07	SNB-CH26	3.30	2.421	-3.303	-3.303	-2.212	0.831	2.421	2.051	-0.635
SNB-07	SNB-CH27	3.15	2.581	-3.156	2.144	1.094	-1.093	-3.156	-0.509	-0.509
SNB-07	SNB-CH28	8.15	0.000	-8.165	-0.865	-4.486	-8.165	-4.413	-0.835	-0.835
SNB-07	SNB-CH29	6.98	5.950	-6.990	-6.990	4.479	2.453	5.950	5.080	-0.970
SNB-07	SNB-CH30	6.90	6.267	-6.915	5.360	6.267	2.746	-4.328	-6.915	-0.782
SNB-11	SNB-CH11	12.71	0.000	-12.738	-1.139	-6.883	-12.738	-6.748	-0.982	-1.070
SNB-11	SNB-CH12	11.69	10.888	-11.712	-11.712	-7.240	4.932	10.888	9.278	-1.236
SNB-11	SNB-CH13	12.14	0.000	-11.093	9.083	10.670	5.006	-6.739	-11.093	-1.012
SNB-11	SNB-CH14	10.68	15.404	-16.800	-16.800	-10.204	-19.097	-10.273	-1.693	-1.662
SNB-11	SNB-CH15	10.50	15.556	-16.920	-16.920	-10.447	6.905	15.404	13.148	-1.853
SNB-11	SNB-CH16	16.19	0.000	-16.520	-13.923	15.556	7.076	-10.201	-15.520	-1.607
SNB-11	SNB-CH17	14.11	21.018	-22.209	-22.209	-13.464	-25.469	-13.477	-1.899	-1.918
SNB-11	SNB-CH18	13.96	21.254	-21.963	18.252	12.254	9.904	-13.408	-21.963	-1.869
SNB-11	SNB-CH19	20.71	0.000	-20.595	-2.229	-17.135	-35.595	-17.118	-2.209	-2.246
SNB-11	SNB-CH20	18.00	27.331	-28.332	-28.332	-17.119	12.717	27.331	23.463	-2.465
SNB-11	SNB-CH21	17.85	27.584	-28.089	23.713	27.584	12.983	-17.063	-28.089	-2.506
SNB-11	SNB-CH22	25.03	0.000	-25.386	-2.552	-20.628	-39.386	-20.650	-2.575	-2.575
SNB-11	SNB-CH23	21.79	33.482	-34.288	-34.288	-20.900	15.666	33.482	28.770	-2.800
SNB-11	SNB-CH24	21.63	33.648	-33.992	28.955	33.648	15.869	-20.628	-33.992	-2.546
SNB-11	SNB-CH25	32.79	0.000	-32.256	-31.028	-25.209	-48.258	-25.248	-3.068	-3.071
SNB-11	SNB-CH26	28.46	41.144	-41.887	-41.887	-25.470	19.344	41.144	35.380	-3.299
SNB-11	SNB-CH27	28.29	41.344	-41.640	35.595	41.344	19.597	-25.233	-41.640	-3.035
SNB-11	SNB-CH28	42.45	0.000	-42.432	-3.801	-32.552	-62.432	-32.555	-1.802	-1.831
SNB-11	SNB-CH29	36.76	53.506	-54.062	-54.062	-32.789	25.282	53.506	46.041	-4.070
SNB-11	SNB-CH30	36.60	53.730	-53.823	46.269	53.730	25.523	-32.544	-53.823	-3.824
SNB-12	SNB-CH11	50.51	0.000	-50.514	-3.886	-38.417	-74.342	-38.426	-3.892	-3.923
SNB-12	SNB-CH12	43.63	64.952	-64.228	-64.228	-38.659	31.099	64.952	55.997	-3.922
SNB-12	SNB-CH13	43.48	65.182	-63.993	56.230	65.182	31.339	-38.421	-63.993	-3.922
SNB-12	SNB-CH14	61.17	0.000	-61.177	-46.632	-46.632	-88.295	-46.626	-4.641	-4.685
SNB-12	SNB-CH15	52.83	77.097	-76.268	-76.268	-46.905	36.927	77.097	66.475	-4.953
SNB-12	SNB-CH16	52.84	77.326	-75.980	66.706	77.326	37.184	-45.628	-75.980	-4.687
SNB-12	SNB-CH17	72.65	0.000	-72.612	-54.306	-54.354	-104.812	-54.123	-5.514	-5.514
SNB-12	SNB-CH18	62.72	91.620	-90.460	-90.460	-54.450	43.912	91.620	79.007	-5.818
SNB-12	SNB-CH19	62.50	91.896	-90.173	79.281	91.896	44.215	-54.136	-90.173	-5.516
SNB-12	SNB-CH20	81.46	0.000	-81.585	-5.520	-60.379	-117.585	-60.381	-9.516	-5.540
SNB-12	SNB-CH21	70.21	104.945	-101.350	-101.350	-60.700	50.218	-101.345	89.745	-5.865
SNB-12	SNB-CH22	70.00	104.259	-101.039	90.059	104.259	50.546	-60.380	-101.039	-5.542
SNB-12	SNB-CH23	48.48	0.000	-48.484	-6.462	-68.963	-134.240	-68.976	-6.472	-6.864
SNB-12	SNB-CH24	41.76	118.156	-115.641	-115.641	-69.300	57.052	118.156	102.013	-6.864
SNB-12	SNB-CH25	41.65	118.503	-115.513	102.361	118.503	57.401	-68.966	-115.513	-6.518
SNB-12	SNB-CH26	55.47	0.000	-55.533	-7.498	-78.907	-153.533	-78.898	-7.484	-7.511
SNB-12	SNB-CH27	47.77	135.062	-132.222	-132.222	-79.265	65.210	135.062	116.613	-7.875
SNB-12	SNB-CH28	47.64	133.409	-131.850	116.960	133.409	65.578	-78.889	-131.850	-7.504
SNB-12	SNB-CH29	60.23	0.000	-60.268	-7.641	-85.400	-166.768	-85.393	-7.629	-7.647
SNB-12	SNB-CH30	51.82	147.658	-143.491	-143.491	-85.788	71.625	147.658	127.554	-8.009
SNB-14	SNB-LE31	51.68	147.989	-143.097	127.927	147.989	71.986	-85.398	-143.097	-7.634

SNB-14	SNB-L1P	73.20	0.000	-186.111	-9.344	-95.679	-186.111	-95.692	-9.354	-9.307
SNB-14	SNB-L11	62.97	163.267	-160.096	-96.052	78.818	163.267	140.985	-9.664	
SNB-14	SNB-L12	62.83	153.726	-159.726	141.350	163.628	79.187	-95.661	-159.726	-9.287
SNB-14	SNB-L12P	81.38	0.000	-206.894	-10.169	-106.161	-206.894	-106.164	-10.169	-10.127
SNB-14	SNB-L21	69.92	181.763	-177.762	-177.762	-106.507	87.994	181.763	157.029	-10.476
SNB-14	SNB-L22	69.77	182.124	-177.381	157.381	182.124	88.368	-106.133	-177.381	-10.100
SNB-15	SNB-L1P	70.53	0.000	-229.341	-11.602	-117.732	-229.341	-117.737	-11.548	
SNB-15	SNB-L11	60.35	200.620	-196.899	-118.065	97.080	200.620	173.331	-11.883	
SNB-15	SNB-L12	60.44	200.976	-196.342	173.686	200.976	97.446	-117.703	-196.342	-11.518
SNB-15	SNB-L21	77.70	0.000	-152.653	-12.779	-129.582	-252.653	-129.584	-12.777	-12.724
SNB-15	SNB-L22	66.65	220.193	-116.724	-129.904	106.981	220.797	190.819	-13.048	
SNB-15	SNB-L11P	84.53	0.000	-16.375	191.165	221.143	107.387	-129.551	-216.375	-12.692
SNB-15	SNB-L12P	86.54	0.000	-74.960	-13.231	-140.506	-274.860	-140.507	-13.230	-13.152
SNB-15	SNB-L11	72.42	241.344	-335.468	-335.468	-140.813	117.443	241.344	208.731	-13.462
SNB-15	SNB-L12	72.31	241.677	-330.178	209.063	241.677	117.783	-140.475	-235.134	-13.121
SNB-15	SNB-L12P	92.32	0.000	-330.178	-16.487	-154.365	-330.178	-154.365	-16.486	-16.401
SNB-15	SNB-L21	79.12	259.304	-337.264	-337.264	-154.660	125.230	259.304	224.033	-16.699
SNB-15	SNB-L22	79.02	259.624	-336.942	224.356	259.624	125.555	-154.335	-256.942	-16.370
SNB-16	SNB-L1P	74.05	0.000	-113.433	-6.370	-155.433	-313.433	-155.430	-6.368	-6.316
SNB-16	SNB-L11	63.01	231.699	-266.726	-155.711	146.997	231.699	233.665	-6.599	
SNB-16	SNB-L112	62.98	292.004	-266.429	253.970	292.004	147.302	-155.404	-266.429	-6.286
SNB-16	SNB-L12P	84.80	0.000	-358.937	-26.914	-187.936	-358.937	-187.930	-26.913	-26.810
SNB-16	SNB-L121	72.81	235.136	-308.197	-308.197	-188.198	138.974	235.136	234.117	-27.081
SNB-16	SNB-L122	72.74	235.427	-307.904	254.408	235.427	139.258	-187.909	-307.904	-26.783
Connect AP	Connect AP	0.00	0.712	0.000	0.097	0.415	0.712	0.326	0.005	0.052
Connect A1	Connect A1	0.00	0.190	-0.011	-0.182	0.190	0.154	0.004	-0.011	0.087
Connect A2	Connect A2	0.00	0.368	-0.318	-0.285	-0.318	-0.079	0.237	0.368	0.041
Connect A3P	Connect A3P	0.00	0.293	-0.018	-0.018	0.099	0.293	0.246	0.161	0.073
Connect A1	Connect A1	0.01	1.195	-1.132	1.195	0.818	-0.376	-1.132	-1.068	0.066
Connect A2	Connect A2	0.00	0.561	-0.426	-0.426	-0.354	0.092	0.496	0.561	0.069
Connect A3P	Connect A3P	0.01	1.175	-0.241	0.379	0.879	1.175	0.340	-0.241	0.074
Connect A3P	Connect A3P	0.00	0.082	0.000	0.061	0.036	0.032	0.050	0.082	0.072
Connect A3P	Connect A3P	0.00	0.314	-0.458	-0.155	-0.395	-0.458	-0.002	0.314	0.081
Connect A3P	Connect A3P	0.00	0.194	-0.008	-0.008	0.048	0.180	0.194	0.169	0.079
Connect A3P	Connect A3P	0.00	0.922	-0.922	0.655	-0.224	-0.828	-0.778	0.076	0.095
Connect A3P	Connect A3P	0.00	0.442	-0.280	-0.280	-0.199	-0.161	0.423	0.442	0.044
Connect A3P	Connect A3P	0.00	0.167	-0.110	-0.167	0.009	-0.170	-0.113	0.044	0.117
Connect B1	Connect B1	0.00	0.933	-0.593	-0.593	-0.286	0.572	0.933	0.822	0.114
Connect B2	Connect B2	0.00	0.605	-0.314	0.075	0.605	0.354	-0.172	-0.314	0.121
Connect B3P	Connect B3P	0.01	1.171	0.000	0.075	0.606	1.171	0.669	0.157	0.105
Connect B1	Connect B1	0.00	1.083	-1.039	1.083	0.693	-0.419	-1.039	-0.895	0.102
Connect B2	Connect B2	0.00	1.047	-0.988	-0.850	-0.958	-0.342	0.694	1.047	0.106
Connect B3P	Connect B3P	0.00	0.133	0.000	0.132	0.096	0.053	0.044	0.073	0.120
Connect B3P	Connect B3P	0.00	0.327	-0.044	-0.044	0.024	0.241	0.327	0.298	0.119
Connect B3P	Connect B3P	0.00	0.284	-0.011	-0.011	0.284	0.182	0.015	-0.011	0.123
Connect B3P	Connect B3P	0.00	0.284	-0.459	-0.192	-0.126	-0.459	-0.057	0.284	0.213
Connect B3P	Connect B3P	0.00	0.661	-0.216	-0.216	0.006	0.516	-0.661	0.601	0.209
Connect B3P	Connect B3P	0.00	0.818	-0.307	0.710	0.818	0.644	-0.038	-0.307	0.217
Connect B3P	Connect B3P	0.01	1.910	0.000	0.322	1.095	1.910	1.038	0.261	0.333
Connect B3P	Connect B3P	0.01	1.450	-0.904	1.440	0.951	-0.304	-0.756	0.756	0.334
Connect B3P	Connect B3P	0.01	1.576	-1.082	-0.901	-1.082	-0.428	1.001	1.576	0.331
Connect B3P	Connect B3P	0.01	1.679	0.000	0.221	1.679	0.985	0.240	0.240	0.240
Connect B3P	Connect B3P	0.01	1.524	-1.268	-1.524	1.006	-0.476	-1.268	-1.073	0.240
Connect B3P	Connect B3P	0.01	1.493	-1.212	-1.043	-1.212	-0.434	0.996	1.493	0.238
Connect B3P	Connect B3P	0.00	0.540	0.000	0.273	0.404	0.540	0.403	0.273	0.287
Connect B3P	Connect B3P	0.00	0.483	0.000	0.493	0.408	-0.189	0.061	0.091	0.294
Connect B3P	Connect B3P	0.00	0.483	0.000	0.081	0.055	0.175	0.392	0.483	0.285
Connect B3P	Connect B3P	0.00	1.099	0.000	0.585	0.846	1.099	0.814	0.559	0.585
Connect B3P	Connect B3P	0.00	0.983	0.000	0.983	0.823	0.372	0.124	0.182	0.602
Connect B3P	Connect B3P	0.00	1.002	0.000	0.127	0.060	0.326	0.818	1.002	0.584
Connect B3P	Connect B3P	0.00	0.888	0.000	0.376	0.624	0.888	0.633	0.386	0.390
Connect B3P	Connect B3P	0.00	0.871	-0.179	-0.871	0.117	-0.179	-0.107	0.388	
Connect B3P	Connect B3P	0.00	0.806	-0.093	-0.038	-0.093	0.157	0.629	0.806	0.389
Connect B3P	Connect B3P	0.00	1.118	0.000	0.398	0.751	1.118	0.715	0.354	0.387
Connect B3P	Connect B3P	0.00	0.982	-0.317	0.982	0.729	0.036	-0.317	-0.229	0.382
Connect B3P	Connect B3P	0.00	0.977	-0.316	-0.220	-0.316	0.004	0.706	0.977	0.385
Connect B3P	Connect B3P	0.02	3.457	-0.000	-0.746	2.076	3.457	2.079	0.758	0.773
Connect B3P	Connect B3P	0.01	3.077	-1.982	3.077	2.097	-0.610	-2.088	-1.605	0.771
Connect B3P	Connect B3P	0.01	3.056	-1.986	-1.986	-1.956	-0.588	-0.069	0.481	0.547
Connect B3P	Connect B3P	0.00	0.547	-0.588	0.539	-0.018	-0.588	-0.069	0.481	0.547
Connect B3P	Connect B3P	0.01	1.759	-0.519	-0.092	1.137	1.759	1.594	0.538	
Connect B3P	Connect B3P	0.01	1.716	-0.485	1.570	1.716	1.086	-0.092	-0.485	0.545
Connect B3P	Connect B3P	0.00	0.602	-0.739	0.564	-0.060	-0.739	-0.031	0.602	0.542
Connect B3P	Connect B3P	0.01	1.507	-0.395	-0.055	1.111	1.507	1.378	0.529	

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Connect	Connect	Ebd	0.01	1.636	-0.472	1.480	1.636	1.201	0.027	-0.472	0.540
Connect	Connect	Fp	0.00	0.743	0.000	0.627	0.498	0.424	0.454	0.560	0.743
Connect	Connect	F1	0.01	1.361	0.000	0.245	0.263	0.945	1.361	1.248	0.743
Connect	Connect	F2	0.01	1.296	0.000	1.202	1.296	0.896	0.376	0.291	0.744
Connect	Connect	F3	0.01	1.218	0.000	0.814	1.060	1.218	1.083	0.839	0.711
Connect	Connect	F4	0.01	1.248	-0.133	1.248	1.132	0.430	-0.133	0.000	0.707
Connect	Connect	F5	0.01	1.243	-0.105	0.019	-0.105	0.450	1.135	1.243	0.713
Connect	Connect	F6	0.01	2.435	0.000	0.503	1.364	2.435	1.358	0.497	0.732
Connect	Connect	Gp	0.01	2.079	-0.686	2.070	1.337	-0.208	-0.686	0.569	0.731
Connect	Connect	G1	0.01	2.079	-0.682	-0.572	-0.682	-0.211	1.340	2.079	0.731
Connect	Connect	G2	0.01	1.568	0.000	0.874	1.295	1.568	1.298	0.877	0.700
Connect	Connect	G3	0.01	1.501	-0.563	1.501	1.303	0.237	-0.563	-0.341	0.699
Connect	Connect	G4	0.01	1.502	-0.557	-0.338	-0.557	0.241	1.306	1.502	0.701
Connect	Connect	G5	0.01	1.315	0.000	1.029	1.000	0.999	1.029	1.315	0.701
Connect	Connect	HP	0.01	1.727	0.000	1.098	0.995	1.274	1.727	1.591	1.314
Connect	Connect	H1	0.01	1.727	0.000	1.591	1.277	1.276	0.996	1.100	1.315
Connect	Connect	H2	0.01	2.160	0.000	0.984	1.646	2.160	1.646	0.995	0.808
Connect	Connect	H3	0.01	2.010	-0.934	2.010	1.646	0.089	-0.934	-0.647	0.807
Connect	Connect	H4	0.01	2.011	-0.932	-0.646	-0.932	0.100	1.648	2.011	0.809
Connect	Connect	H5	0.03	7.770	0.000	4.841	6.159	7.770	6.158	4.842	5.100
Connect	Connect	IP	0.03	7.255	0.000	7.255	6.155	3.643	2.752	2.968	5.098
Connect	Connect	I1	0.03	7.258	0.000	2.970	2.755	3.648	6.159	7.258	5.101
Connect	Connect	I2	0.00	0.565	-0.968	-0.881	-0.140	0.565	-0.140	-0.881	-0.968
Connect	Connect	I3	0.01	0.347	-2.704	-0.347	-0.142	-1.778	-2.704	-2.453	-0.970
Connect	Connect	Ia1	0.01	0.349	-2.703	-2.452	-2.703	-1.775	-0.139	0.349	-0.968
Connect	Connect	Ia2	0.37	0.439	-0.303	-0.303	-0.092	0.351	0.439	0.319	0.009
Connect	Connect	Ia2	0.37	0.301	-0.258	-0.258	-0.156	0.160	0.301	0.275	0.007
Connect	Connect	Ia2	0.25	0.218	-0.212	0.203	0.218	0.089	-0.145	-0.212	-0.004
Connect	Connect	Ia2	0.19	0.667	-0.677	-0.677	-0.531	0.151	0.643	0.667	0.004
Connect	Connect	Ia2	0.42	0.500	-0.273	-0.273	-0.001	0.490	0.500	0.307	0.003
Connect	Connect	Ia2	0.56	0.584	-0.614	0.584	0.435	-0.155	-0.614	-0.599	0.003
Connect	Connect	Ia2	0.70	0.828	-0.432	0.696	0.828	0.610	-0.108	-0.432	0.151
Connect	Connect	Ia2	0.57	0.245	-0.604	-0.094	-0.264	-0.604	-0.137	0.245	0.151
Connect	Connect	Ia2	0.67	0.790	-0.450	-0.167	-0.167	0.516	0.790	0.700	0.146
Connect	Connect	Ia2	1.70	2.009	-1.091	1.784	2.009	1.211	-0.470	-1.091	0.359
Connect	Connect	Ia2	1.30	0.363	-1.338	0.328	-0.496	-1.338	-0.467	0.363	0.350
Connect	Connect	Ia2	1.48	2.002	-1.112	-1.112	-0.495	1.188	2.002	1.786	0.467
Connect	Connect	Ia2	1.87	3.348	-2.086	2.981	3.348	1.880	-1.041	-2.086	0.467
Connect	Connect	Ia2	1.86	0.467	-2.479	-0.450	-0.984	-2.479	-1.029	0.400	0.467
Connect	Connect	Ia2	1.86	3.356	-2.095	-2.095	-1.035	1.503	3.356	2.977	0.459
Connect	Connect	Ia2	1.86	0.901	-0.577	0.813	-0.109	0.742	-0.577	0.226	0.226
Connect	Connect	Ia2	0.52	0.349	-0.803	0.284	-0.205	-0.803	-0.148	0.349	0.226
Connect	Connect	Ia2	0.49	0.880	-0.588	-0.588	-0.136	0.701	0.880	0.811	0.220
Connect	Connect	Ia2	0.16	0.172	-0.236	-0.131	-0.236	0.129	0.172	-0.040	0.088
Connect	Connect	Ia2	0.14	0.259	-0.166	0.250	0.149	-0.166	0.157	0.259	0.088
Connect	Connect	Ia2	0.16	0.170	-0.000	-0.039	-0.170	0.122	-0.242	-0.134	1.082
Connect	Connect	Ia2	0.79	1.414	0.000	0.404	0.207	0.871	1.414	1.343	1.082
Connect	Connect	Ia2	0.79	1.412	0.000	1.285	1.285	1.412	1.285	1.412	1.082
Connect	Connect	Ia2	0.79	1.414	0.000	1.353	1.414	0.872	0.206	0.403	1.082
Connect	Connect	Ia2	5.76	10.152	0.000	9.951	9.956	10.152	10.174	9.927	10.131
Connect	Connect	Ia2	5.76	10.307	0.000	10.307	10.174	9.796	10.174	10.306	10.131
Connect	Connect	Ia2	5.70	10.192	0.000	9.927	10.175	10.192	9.837	9.952	10.131





Twist and Out-of-Plumb for "W+I -90 deg":

Elevation	Twist	Sway	Out of Plumb
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	0.00	0.04	0.02
20.00	0.00	0.07	0.22
30.00	0.00	0.11	0.41
40.00	0.00	0.18	0.82
50.00	0.00	0.21	1.22
60.00	0.00	0.27	1.82
70.00	0.00	0.30	2.42
80.00	0.00	0.37	3.22
90.00	0.00	0.40	3.77
100.00	0.00	0.44	4.38
110.00	0.00	0.47	5.04
120.00	0.00	0.52	5.73
130.00	0.00	0.55	6.53
140.00	0.00	0.59	7.34

126.66	0.00	0.62	8.21
133.34	0.01	0.66	9.13
140.00	0.01	0.68	10.09
145.00	0.01	0.68	10.76
150.00	0.01	0.73	11.57
155.00	0.01	0.71	12.29
160.00	0.01	0.73	13.06
165.00	0.01	0.73	13.82
170.00	0.01	0.74	14.61
175.00	0.01	0.74	15.37
180.00	0.01	0.74	16.16

Twist and Out-of-Plumb for "W+I -60 deg":

Elevation	Twist	Sway	Out of Plumb
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	0.00	0.04	0.02
20.00	0.00	0.07	0.22
30.00	0.00	0.11	0.41
40.00	0.00	0.18	0.82
50.00	0.01	0.21	1.21
60.00	0.01	0.27	1.81
70.00	0.01	0.30	2.40
80.00	0.01	0.37	3.20
86.66	0.01	0.40	3.74
93.34	0.01	0.43	4.35
100.00	0.02	0.46	5.00
106.66	0.02	0.50	5.69
113.34	0.02	0.55	6.47
120.00	0.02	0.59	7.29
126.66	0.03	0.62	8.15
133.34	0.03	0.65	9.07
140.00	0.03	0.68	10.02
145.00	0.04	0.68	10.71
150.00	0.04	0.72	11.49
155.00	0.04	0.70	12.21
160.00	0.05	0.73	12.98
165.00	0.05	0.73	13.74
170.00	0.06	0.73	14.51
175.00	0.06	0.74	15.28
180.00	0.06	0.74	16.05

Twist and Out-of-Plumb for "W+I 0 deg":

Elevation	Twist	Sway	Out of Plumb
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	0.00	0.04	0.03
20.00	0.00	0.07	0.23
30.00	0.01	0.11	0.43
40.00	0.01	0.18	0.84
50.00	0.01	0.21	1.25
60.00	0.01	0.26	1.86
70.00	0.01	0.31	2.47
80.00	0.02	0.37	3.28
86.66	0.02	0.41	3.85
93.34	0.02	0.44	4.47
100.00	0.03	0.47	5.14
106.66	0.03	0.51	5.85
113.34	0.03	0.56	6.64
120.00	0.04	0.60	7.48
126.66	0.04	0.63	8.36
133.34	0.05	0.67	9.30
140.00	0.06	0.69	10.27
145.00	0.06	0.69	10.98
150.00	0.07	0.74	11.77
155.00	0.07	0.72	12.51

160.00	0.08	0.74	13.29
165.00	0.09	0.74	14.07
170.00	0.10	0.75	14.85
175.00	0.10	0.75	15.65
180.00	0.10	0.75	16.43

Twist and Out-of-Plumb for "W-I 60 deg":

Elevation Twist Sway Out of Plumb			
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	0.00	0.04	0.02
20.00	0.00	0.07	0.22
30.00	0.00	0.11	0.41
40.00	0.00	0.18	0.82
50.00	0.00	0.20	1.21
60.00	0.01	0.27	1.81
70.00	0.01	0.30	2.40
80.00	0.01	0.36	3.19
93.34	0.01	0.40	3.74
100.00	0.01	0.43	4.34
106.66	0.01	0.46	5.00
113.34	0.01	0.50	5.65
120.00	0.02	0.55	6.46
126.66	0.02	0.59	7.28
133.34	0.02	0.62	8.14
140.00	0.02	0.65	9.05
145.00	0.02	0.67	10.00
150.00	0.03	0.72	11.47
155.00	0.03	0.70	12.19
160.00	0.03	0.73	12.95
165.00	0.04	0.72	13.71
170.00	0.04	0.74	14.49
175.00	0.04	0.73	15.24
180.00	0.04	0.74	16.02

Twist and Out-of-Plumb for "W-I 90 deg":

Elevation Twist Sway Out of Plumb			
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.04	0.02
20.00	-0.00	0.07	0.22
30.00	-0.00	0.11	0.41
40.00	-0.00	0.18	0.82
50.00	-0.00	0.21	1.22
60.00	-0.00	0.27	1.82
70.00	-0.00	0.30	2.42
80.00	-0.00	0.37	3.22
86.66	-0.00	0.40	3.76
93.34	-0.00	0.43	4.36
100.00	-0.00	0.47	5.03
106.66	-0.00	0.50	5.73
113.34	-0.00	0.55	6.50
120.00	-0.00	0.59	7.33
126.66	-0.00	0.62	8.19
133.34	-0.01	0.65	9.11
140.00	-0.01	0.68	10.07
145.00	-0.01	0.68	10.76
150.00	-0.01	0.73	11.54
155.00	-0.01	0.70	12.26
160.00	-0.01	0.73	13.04
165.00	-0.01	0.73	13.79
170.00	-0.01	0.74	14.58
175.00	-0.01	0.73	15.34
180.00	-0.01	0.74	16.12

Twist and Out-of-Plumb for "DL + Ice Only":

Elevation Twist Sway Out of Plumb			
(ft)	(deg)	(deg)	(in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.04	0.00
20.00	-0.00	-0.01	0.00
30.00	-0.00	0.00	0.00
40.00	-0.00	-0.00	0.00
50.00	-0.00	-0.00	0.00
60.00	-0.00	0.00	0.00
70.00	-0.00	-0.00	0.00
80.00	-0.00	0.00	0.00
86.56	0.00	-0.00	0.00
93.34	0.00	-0.00	0.00
100.00	0.00	-0.00	0.00
106.56	0.00	-0.00	0.01
113.34	0.00	-0.00	0.01
120.00	0.00	0.00	0.01
126.56	0.00	-0.00	0.01
133.34	0.00	-0.00	0.01
140.00	0.00	0.00	0.01
145.00	0.00	-0.00	0.01
150.00	0.00	-0.00	0.01
155.00	-0.00	-0.00	0.01
160.00	-0.00	0.00	0.02
165.00	-0.00	-0.00	0.02
170.00	-0.00	0.00	0.02
175.00	-0.00	-0.00	0.02
180.00	-0.00	0.00	0.02

*** Analysis Results for Load Case No. 1 "W+I -90 deg" - Number of Iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "W+I -90 deg":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Ros (ft)	Y-Ros (ft)	Z-Ros (ft)
RohnAP	-0.00183	-1.346	-0.08713	0.0000	0.0000	0.0000	4.331	-1.346	179.9
RohnBP	-0.00202	-1.088	-0.0774	0.0000	0.0000	0.0000	5.119	-1.088	159.9
RohnCP	-0.00253	-0.8398	-0.06743	0.0000	0.0000	0.0000	5.907	-0.8398	139.9
RohnDP	-0.002515	-0.6111	-0.05736	0.0000	0.0000	0.0000	6.692	-0.6111	119.9
RohnEP	-0.002815	-0.4195	-0.04723	0.0000	0.0000	0.0000	7.478	-0.4195	99.95
RohnFP	-0.003156	-0.2681	-0.03762	0.0000	0.0000	0.0000	8.265	-0.2681	79.96
RohnGP	-0.003501	-0.1518	-0.02818	0.0000	0.0000	0.0000	9.051	-0.1518	59.97
RohnHP	-0.003788	-0.06831	-0.01888	0.0000	0.0000	0.0000	9.837	-0.06831	39.98
RohnIP	-0.003668	-0.0186	-0.009444	0.0000	0.0000	0.0000	10.63	-0.0186	19.99
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	-0.001043	-1.346	-0.08162	0.0000	0.0000	0.0000	2.332	-1.346	179.9
SNB-BP	-0.001214	-1.089	-0.07203	0.0000	0.0000	0.0000	3.12	-1.089	159.9
SNB-CP	-0.001466	-0.8397	-0.06245	0.0000	0.0000	0.0000	3.907	-0.8397	139.9
SNB-DP	-0.001731	-0.6122	-0.05295	0.0000	0.0000	0.0000	4.693	-0.6122	119.9
SNB-EP	-0.002033	-0.4202	-0.0436	0.0000	0.0000	0.0000	5.479	-0.4202	99.96
SNB-FP	-0.002374	-0.2686	-0.03476	0.0000	0.0000	0.0000	6.266	-0.2686	79.97
SNB-GP	-0.00272	-0.1515	-0.02598	0.0000	0.0000	0.0000	7.052	-0.1515	59.97
SNB-HP	-0.003007	-0.06819	-0.01734	0.0000	0.0000	0.0000	7.838	-0.06819	39.98
SNB-IP	-0.002888	-0.01803	-0.008654	0.0000	0.0000	0.0000	8.625	-0.01803	19.99
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	-0.001559	-1.345	-0.135	0.0000	0.0000	0.0000	-2.165	-5.097	179.9
RohnA2	-0.002123	-1.348	-0.03944	0.0000	0.0000	0.0000	-2.167	-2.404	180
RohnB1	0.00174	-1.087	-0.1325	0.0000	0.0000	0.0000	-2.559	-5.522	159.9
RohnB2	0.0001621	-1.091	-0.02236	0.0000	0.0000	0.0000	-2.56	-3.344	160
RohnC1	0.002079	-0.8378	-0.1265	0.0000	0.0000	0.0000	-2.952	-5.955	139.9
RohnC2	0.0003053	-0.8425	-0.00838	0.0000	0.0000	0.0000	-2.954	-4.275	140
RohnD1	0.001541	-0.6098	-0.1162	0.0000	0.0000	0.0000	-3.346	-6.409	119.9
RohnD2	0.001209	-0.615	0.001441	0.0000	0.0000	0.0000	-3.346	-5.189	120
RohnE1	0.001555	-0.4177	-0.03961	0.0000	0.0000	0.0000	-3.739	-6.896	99.9
RohnE2	0.001431	-0.4232	0.00514	0.0000	0.0000	0.0000	-3.739	-6.056	100
RohnF1	0.001752	-0.2658	-0.08301	0.0000	0.0000	0.0000	-4.132	-7.428	79.92
RohnF2	0.00156	-0.2716	0.007803	0.0000	0.0000	0.0000	-4.132	-6.889	80.01
RohnG1	0.002218	-0.1486	-0.06457	0.0000	0.0000	0.0000	-4.525	-7.99	59.94
RohnG2	0.001522	-0.1548	0.008236	0.0000	0.0000	0.0000	-4.526	-7.687	60.01
RohnH1	0.002203	-0.06499	-0.04491	0.0000	0.0000	0.0000	-4.918	-8.588	39.96
RohnH2	0.001778	-0.07154	0.007168	0.0000	0.0000	0.0000	-4.918	-8.451	40.01
RohnI1	0.002219	-0.01507	-0.02211	0.0000	0.0000	0.0000	-5.312	-9.221	19.98
RohnI2	0.001586	-0.02135	0.002229	0.0000	0.0000	0.0000	-5.312	-9.188	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.711	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.711	-9.89	0
SNB-A1	0.0003293	-1.345	-0.1077	0.0000	0.0000	0.0000	-1.166	-3.366	179.9
SNB-A2	0.0003132	-1.347	-0.0556	0.0000	0.0000	0.0000	-1.166	-0.6734	179.9
SNB-B1	0.0006106	-1.087	-0.106	0.0000	0.0000	0.0000	-1.56	-3.79	159.9
SNB-B2	0.0005702	-1.09	-0.03805	0.0000	0.0000	0.0000	-1.56	-1.613	160
SNB-C1	0.0007974	-0.8382	-0.1024	0.0000	0.0000	0.0000	-1.953	-4.223	139.9
SNB-C2	0.0008282	-0.8413	-0.02257	0.0000	0.0000	0.0000	-1.953	-2.543	140
SNB-D1	0.0009415	-0.6105	-0.09507	0.0000	0.0000	0.0000	-2.347	-4.677	119.9
SNB-D2	0.00105	-0.6141	-0.01085	0.0000	0.0000	0.0000	-2.346	-3.452	120
SNB-E1	0.001078	-0.4184	-0.08209	0.0000	0.0000	0.0000	-2.739	-5.165	99.92
SNB-E2	0.00128	-0.4223	-0.005091	0.0000	0.0000	0.0000	-2.739	-4.324	99.99
SNB-F1	0.001266	-0.2664	-0.07047	0.0000	0.0000	0.0000	-3.133	-5.695	79.93
SNB-F2	0.001312	-0.2709	0.000985	0.0000	0.0000	0.0000	-3.133	-5.157	80
SNB-G1	0.001421	-0.1491	-0.05441	0.0000	0.0000	0.0000	-3.526	-6.259	59.94
SNB-G2	0.001416	-0.154	0.003482	0.0000	0.0000	0.0000	-3.526	-5.956	60
SNB-H1	0.001552	-0.06552	-0.03912	0.0000	0.0000	0.0000	-3.919	-6.856	39.96
SNB-H2	0.00151	-0.07079	0.004455	0.0000	0.0000	0.0000	-3.919	-6.72	40
SNB-I1	0.001453	-0.01553	-0.01965	0.0000	0.0000	0.0000	-4.313	-7.488	19.98
SNB-I2	0.001454	-0.02052	0.002352	0.0000	0.0000	0.0000	-4.313	-7.452	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
RohnAAS	-0.001843	-1.28	-0.08472	0.0000	0.0000	0.0000	4.528	-1.28	174.9
RohnBAS	-0.001927	-1.217	-0.08231	0.0000	0.0000	0.0000	4.725	-1.217	169.9
RohnBAS	-0.001917	-1.151	-0.07984	0.0000	0.0000	0.0000	4.922	-1.151	164.9
RohnBAS	-0.00201	-1.023	-0.07492	0.0000	0.0000	0.0000	5.316	-1.023	154.9
RohnBAS	-0.002151	-0.9632	-0.07248	0.0000	0.0000	0.0000	5.513	-0.9632	149.9

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RohmBcs	-0.002103	-0.8978	-0.0691	0.0000	0.0000	0.0000	5.71	-0.8978	144.9
RohmCas	-0.002244	-0.76	-0.0607	0.0000	0.0000	0.0000	6.168	-0.76	133.3
RohmCbs	-0.002313	-0.6832	-0.0607	0.0000	0.0000	0.0000	6.431	-0.6832	126.6
RohmDbs	-0.002481	-0.5421	-0.05396	0.0000	0.0000	0.0000	6.954	-0.5421	113.3
RohmEbs	-0.002567	-0.4774	-0.05056	0.0000	0.0000	0.0000	7.217	-0.4774	106.6
RohmFbs	-0.002846	-0.3648	-0.04402	0.0000	0.0000	0.0000	7.774	-0.3648	93.3
RohmGbs	-0.002934	-0.3139	-0.0408	0.0000	0.0000	0.0000	8.003	-0.3139	86.62
RohmHbs	-0.002951	-0.2014	-0.03286	0.0000	0.0000	0.0000	8.659	-0.2014	69.97
RohmIbs	-0.003332	-0.1016	-0.02351	0.0000	0.0000	0.0000	9.445	-0.1016	49.98
RohmJbs	-0.003858	-0.0343	-0.01419	0.0000	0.0000	0.0000	10.23	-0.0343	29.99
RohmKbs	-0.004055	-0.002047	-0.005025	0.0000	0.0000	0.0000	11.02	-0.002047	9.995
RohmLbs	-0.004105	-1.281	-0.07923	0.0000	0.0000	0.0000	2.529	-1.281	174.9
RohmMbs	-0.00413	-1.217	-0.07684	0.0000	0.0000	0.0000	2.726	-1.217	169.9
RohmNbs	-0.00413	-1.152	-0.07443	0.0000	0.0000	0.0000	2.923	-1.152	164.9
RohmObs	-0.00423	-1.025	-0.06562	0.0000	0.0000	0.0000	3.317	-1.025	154.9
RohmPbs	-0.004364	-0.9624	-0.06724	0.0000	0.0000	0.0000	3.513	-0.9624	149.9
RohmQbs	-0.004364	-0.8998	-0.06483	0.0000	0.0000	0.0000	3.71	-0.8998	144.9
RohmRbs	-0.004558	-0.7601	-0.05926	0.0000	0.0000	0.0000	4.169	-0.7601	133.3
RohmSbs	-0.004528	-0.6837	-0.05607	0.0000	0.0000	0.0000	4.431	-0.6837	126.6
RohmTbs	-0.004697	-0.5422	-0.0498	0.0000	0.0000	0.0000	4.955	-0.5422	113.3
RohmUbs	-0.004784	-0.4774	-0.04665	0.0000	0.0000	0.0000	5.217	-0.4774	106.6
RohmVbs	-0.002063	-0.3654	-0.04063	0.0000	0.0000	0.0000	5.741	-0.3654	93.3
RohmWbs	-0.002152	-0.3144	-0.03767	0.0000	0.0000	0.0000	6.004	-0.3144	86.62
RohmXbs	-0.00217	-0.2013	-0.03031	0.0000	0.0000	0.0000	6.659	-0.2013	69.97
RohmYbs	-0.002531	-0.1017	-0.02163	0.0000	0.0000	0.0000	7.445	-0.1017	49.98
RohmZbs	-0.003438	-0.03438	-0.01302	0.0000	0.0000	0.0000	8.231	-0.03438	29.99
Rohm1bs	-0.003768	-0.003768	-0.004696	0.0000	0.0000	0.0000	9.016	-0.004696	9.995
Rohm2bs	-0.003773	-0.001636	-0.004696	0.0000	0.0000	0.0000	9.016	-0.001636	9.995
Rohm3bs	-0.001607	-1.28	-0.1347	0.0000	0.0000	0.0000	-2.263	-5.203	174.9
Rohm4bs	-0.0003588	-1.284	-0.0349	0.0000	0.0000	0.0000	-2.265	-2.64	175
Rohm5bs	-0.001641	-1.215	-0.1342	0.0000	0.0000	0.0000	-2.362	-5.309	169.9
Rohm6bs	-0.001637	-1.219	-0.03052	0.0000	0.0000	0.0000	-2.364	-2.874	170
Rohm7bs	-0.001338	-1.151	-0.1335	0.0000	0.0000	0.0000	-2.46	-5.415	164.9
Rohm8bs	-0.0005673	-1.155	-0.02633	0.0000	0.0000	0.0000	-2.461	-3.11	165
Rohm9bs	-0.001159	-1.023	-0.1315	0.0000	0.0000	0.0000	-2.658	-5.629	154.9
Rohm10bs	-0.000694	-1.027	-0.01846	0.0000	0.0000	0.0000	-2.658	-3.576	155
Rohm11bs	-0.002439	-0.9607	-0.1302	0.0000	0.0000	0.0000	-2.755	-5.727	149.9
Rohm12bs	-0.000237	-0.9652	-0.01463	0.0000	0.0000	0.0000	-2.758	-3.811	150
Rohm13bs	-0.0007988	-0.8981	-0.1285	0.0000	0.0000	0.0000	-2.855	-5.845	144.9
Rohm14bs	-0.001434	-0.9025	-0.1114	0.0000	0.0000	0.0000	-2.855	-4.034	145
Rohm15bs	-0.001411	-0.7592	-0.1237	0.0000	0.0000	0.0000	-3.084	-6.103	133.2
Rohm16bs	-0.001035	-0.7638	-0.00451	0.0000	0.0000	0.0000	-3.084	-4.58	133.3
Rohm17bs	-0.001125	-0.6828	-0.1203	0.0000	0.0000	0.0000	-3.216	-6.254	126.5
Rohm18bs	-0.001408	-0.6876	-0.001216	0.0000	0.0000	0.0000	-3.215	-4.884	126.7
Rohm19bs	-0.001186	-0.5414	-0.1114	0.0000	0.0000	0.0000	-3.477	-6.566	113.2
Rohm20bs	-0.001591	-0.5464	-0.00386	0.0000	0.0000	0.0000	-3.477	-5.478	113.3
Rohm21bs	-0.0009045	-0.4771	-0.1058	0.0000	0.0000	0.0000	-3.609	-6.729	106.6
Rohm22bs	-0.001317	-0.4822	-0.004602	0.0000	0.0000	0.0000	-3.608	-5.77	106.7
Rohm23bs	-0.001195	-0.3637	-0.0945	0.0000	0.0000	0.0000	-3.87	-7.069	93.25
Rohm24bs	-0.001998	-0.3692	-0.006456	0.0000	0.0000	0.0000	-3.87	-6.357	93.35
Rohm25bs	-0.001028	-0.3129	-0.08895	0.0000	0.0000	0.0000	-4.002	-7.246	86.57
Rohm26bs	-0.002127	-0.3185	-0.007346	0.0000	0.0000	0.0000	-4.001	-6.615	86.67
Rohm27bs	-0.0007699	-0.2031	-0.07421	0.0000	0.0000	0.0000	-4.332	-7.704	69.93
Rohm28bs	-0.00374	-0.2087	-0.00847	0.0000	0.0000	0.0000	-4.327	-7.292	70.01
Rohm29bs	-0.000632	-0.1029	-0.03507	0.0000	0.0000	0.0000	-4.725	-8.285	49.94
Rohm30bs	-0.003857	-0.109	-0.008043	0.0000	0.0000	0.0000	-4.72	-8.073	50.01
Rohm31bs	-0.0005932	-0.03643	-0.03386	0.0000	0.0000	0.0000	-5.118	-8.9	29.97
Rohm32bs	-0.000483	-0.04235	-0.005483	0.0000	0.0000	0.0000	-5.113	-8.822	30.01
Rohm33bs	-0.001092	-0.001092	-0.01157	0.0000	0.0000	0.0000	-5.511	-9.548	9.988
Rohm34bs	-0.001055	-0.01089	-0.001522	0.0000	0.0000	0.0000	-5.508	-9.537	10
Rohm35bs	-0.000456	-1.281	-0.1074	0.0000	0.0000	0.0000	-1.285	-3.472	174.9
Rohm36bs	-0.0002362	-1.282	-0.05105	0.0000	0.0000	0.0000	-1.284	-0.9086	174.9
Rohm37bs	-0.0005295	-1.216	-0.1072	0.0000	0.0000	0.0000	-1.363	-3.577	169.9
Rohm38bs	-0.0002822	-1.218	-0.04656	0.0000	0.0000	0.0000	-1.363	-1.144	170
Rohm39bs	-0.0002393	-1.151	-0.1067	0.0000	0.0000	0.0000	-1.462	-3.684	164.9
Rohm40bs	-0.0007884	-1.154	-0.04222	0.0000	0.0000	0.0000	-1.461	-1.379	165
Rohm41bs	-0.0002921	-1.024	-0.1054	0.0000	0.0000	0.0000	-1.659	-3.897	154.9
Rohm42bs	-0.0009411	-1.026	-0.03392	0.0000	0.0000	0.0000	-1.658	-1.847	155
Rohm43bs	-0.000772	-0.9608	-0.1046	0.0000	0.0000	0.0000	-1.757	-4.004	149.9
Rohm44bs	-0.0006383	-0.9637	-0.02993	0.0000	0.0000	0.0000	-1.757	-2.108	150
Rohm45bs	-0.000406	-0.8939	-0.1035	0.0000	0.0000	0.0000	-1.855	-4.113	144.9
Rohm46bs	-0.001015	-0.9018	-0.02615	0.0000	0.0000	0.0000	-1.855	-2.312	145
Rohm47bs	-0.0002349	-0.7596	-0.1004	0.0000	0.0000	0.0000	-2.085	-4.371	133.2
Rohm48bs	-0.0014	-0.7627	-0.01816	0.0000	0.0000	0.0000	-2.084	-2.849	133.3
Rohm49bs	-0.0001866	-0.6833	-0.09795	0.0000	0.0000	0.0000	-2.216	-4.522	126.6

SNB-Ch2	0.001561	-0.6865	-0.01424	0.0000	0.0000	0.0000	-2.215	3.153	128.6
SNB-Da1	0.0001548	-0.5418	-0.09137	0.0000	0.0000	0.0000	-2.478	4.635	113.2
SNB-Da2	0.001801	-0.5453	-0.008248	0.0000	0.0000	0.0000	-2.747	3.747	111.3
SNB-Da1-Da2	-0.6394e-005	-0.4775	-0.086599	0.0000	0.0000	0.0000	-2.61	4.998	106.6
SNB-Da1-Da2	0.0002135	-0.4811	-0.006349	0.0000	0.0000	0.0000	-2.608	4.039	106.7
SNB-Ea1	0.0006371	-0.3664	-0.07862	0.0000	0.0000	0.0000	-2.871	5.338	93.26
SNB-Ea2	0.00168	-0.3643	-0.002639	0.0000	0.0000	0.0000	-2.87	4.605	93.34
SNB-Ea1	0.0004755	-0.3135	-0.0717	0.0000	0.0000	0.0000	-3.002	5.515	86.59
SNB-Ea2	0.001691	-0.3137	-0.0006373	0.0000	0.0000	0.0000	-3.001	4.884	86.66
SNB-Fa1	-0.001423	-0.2078	-0.06329	0.0000	0.0000	0.0000	-3.332	5.973	69.94
SNB-Fa2	0.003692	-0.1035	-0.002632	0.0000	0.0000	0.0000	-3.327	5.561	70
SNB-Ga1	-0.001085	-0.1035	-0.04759	0.0000	0.0000	0.0000	-3.725	6.554	49.95
SNB-Ga2	0.003657	-0.1082	-0.00431	0.0000	0.0000	0.0000	-3.72	6.342	50
SNB-Ha1	-0.000147	-0.03607	-0.02977	0.0000	0.0000	0.0000	-4.118	7.167	29.97
SNB-Ha2	0.00408	-0.0416	-0.003708	0.0000	0.0000	0.0000	-4.113	7.05	30
SNB-Ia1	0.0005	-0.000681	-0.0105	0.0000	0.0000	0.0000	-4.51	7.814	9.989
SNB-Ia2	0.004823	-0.01007	0.00107	0.0000	0.0000	0.0000	-4.506	7.803	10

Joint Support Reactions for Load Case "W+I -90 deg":

Joint Label	X External Load		Y External Load		Z External Load		Member Force		Member Force		2 Member Force		X Disp.		Y Disp.		Z Disp.	
	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(ft)	(ft)	(ft)	(ft)	(ft)	
RohmBP	0.0000	-1.6626	-0.6579	0.0006	1.6626	0.5579	-0.0018	-1.3457	-0.0871									
RohmBP	0.0000	-0.4742	-0.5646	0.0000	0.4742	0.5646	-0.0020	-1.0878	-0.0774									
RohmCP	0.0000	-0.8932	-0.8078	-0.0000	0.8932	0.8078	-0.0023	-0.8398	-0.0674									
RohmBP	0.0000	-1.2367	-1.4773	-0.0000	1.2367	1.4773	-0.0023	-0.6111	-0.0574									
RohmBP	0.0000	-0.6208	-0.9805	-0.0000	0.6208	0.9805	-0.0028	-0.4195	-0.0476									
RohmBP	0.0000	-0.8317	-1.4002	-0.0000	0.8317	1.4002	-0.0032	-0.2681	-0.0372									
RohmBP	0.0000	-0.7836	-1.6562	0.0000	0.7836	1.6562	-0.0035	-0.1518	-0.0282									
RohmBP	0.0000	-0.7110	-1.7748	0.0000	0.7110	1.7748	-0.0038	-0.0563	-0.0189									
RohmBP	0.0000	-0.6987	-1.8902	-0.0000	0.6987	1.8902	-0.0037	-0.0186	-0.0094									
RohmBP	0.0000	-0.3573	-0.5159	-0.0000	0.3573	0.5159	-0.0000	0.0000	0.0000									
SMB-AP	0.0000	-0.2113	-0.2692	-0.0000	0.2112	0.2692	-0.0012	-1.3451	-0.0916									
SMB-BP	0.0000	-0.4742	-0.5646	-0.0000	0.4742	0.5646	-0.0012	-1.0885	-0.0720									
SMB-BP	0.0000	-0.5678	-0.6874	-0.0000	0.5678	0.6874	-0.0015	-0.8397	-0.0624									
SMB-CP	0.0000	-0.6119	-0.8173	-0.0000	0.6119	0.8173	-0.0017	-0.6122	-0.0330									
SMB-CP	0.0000	-0.6208	-0.9805	-0.0000	0.6208	0.9805	-0.0020	-0.4202	-0.0436									
SMB-CP	0.0000	-0.7000	-1.3252	-0.0000	0.7000	1.3252	-0.0024	-0.2686	-0.0368									
SMB-CP	0.0000	-0.7560	-1.6362	-0.0000	0.7560	1.6362	-0.0027	-0.1515	-0.0260									
SMB-CP	0.0000	-0.7110	-1.7748	-0.0000	0.7110	1.7748	-0.0030	-0.0562	-0.0173									
SMB-CP	0.0000	-0.6987	-1.8902	-0.0000	0.6987	1.8902	-0.0029	-0.0180	-0.0087									
SMB-CP	0.0000	-0.3573	-0.5815	-1.5162	-5.5842	-17.8604	0.0000	0.0000	0.0000									
RohmAI	0.0000	-1.6200	-0.7512	0.0000	1.6200	0.7512	0.0016	-1.3447	-0.0350									
RohmAI	0.0000	-1.4928	-0.6619	0.0000	1.4929	0.6619	-0.0002	-1.0878	-0.0394									
RohmAI	0.0000	-0.5472	-0.6596	0.0000	0.5472	0.6596	-0.0017	-1.0568	-0.1325									
RohmAI	0.0000	-0.5472	-0.6596	0.0000	0.5472	0.6596	-0.0002	-1.0910	-0.0224									
RohmAI	0.0000	-0.8055	-0.7578	0.0000	0.8055	0.7578	-0.0021	-0.8378	-0.1165									
RohmAI	0.0000	-0.8616	-0.9178	0.0000	0.8616	0.9178	-0.0003	-0.8425	-0.0084									
RohmAI	0.0000	-1.2367	-1.4773	0.0000	1.2367	1.4773	0.0015	-0.6098	-0.0114									
RohmAI	0.0000	-1.2367	-1.4773	0.0000	1.2367	1.4773	0.0012	-0.6105	-0.0164									
RohmAI	0.0000	-0.6208	-0.9805	0.0000	0.6208	0.9805	0.0017	-0.4177	-0.0396									
RohmAI	0.0000	-0.9805	-0.9805	0.0000	0.6208	0.9805	0.0014	-0.4232	-0.0051									
RohmAI	0.0000	-0.6208	-0.9805	0.0000	0.6208	0.9805	0.0014	-0.4232	-0.0051									
RohmAI	0.0000	-0.7000	-1.3252	0.0000	0.7000	1.3252	0.0018	-0.2658	-0.0330									
RohmAI	0.0000	-0.7000	-1.3252	0.0000	0.7000	1.3252	0.0017	-0.2716	-0.0078									
RohmAI	0.0000	-0.7836	-1.6662	0.0000	0.7836	1.6662	0.0022	-0.1486	-0.0478									
RohmAI	0.0000	-0.7836	-1.6662	0.0000	0.7836	1.6662	0.0015	-0.1548	-0.0049									
RohmAI	0.0000	-0.7110	-1.7748	0.0000	0.7110	1.7748	0.0022	-0.0650	-0.0182									
RohmAI	0.0000	-0.7110	-1.7748	0.0000	0.7110	1.7748	0.0018	-0.0715	-0.0072									

Rohn11	0.0000	-0.6987	-1.8902	0.0000	0.6987	1.8902	0.0022	-0.0151	-0.0221
Rohn12	0.0000	-0.6987	-1.8902	0.0000	0.6987	1.8902	0.0016	-0.0213	0.0032
RohnJ1	0.0000	-0.3573	-7.7468	-3.1887	-7.7468	-218.0072	0.0000	0.0000	0.0000
RohnJ2	0.0000	-0.3573	-0.9815	8.2988	-16.4376	175.2866	0.0000	0.0000	0.0000
SNB-A1	0.0000	-0.2113	-0.2692	-0.0000	0.2112	0.2692	0.0003	-1.3451	-0.1077
SNB-A2	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0003	-1.3471	-0.0556
SNB-B1	0.0000	-0.4742	-0.5646	-0.0000	0.4742	0.5646	0.0006	-1.0873	0.1060
SNB-B2	0.0000	-0.4742	-0.5646	-0.0000	0.4742	0.5646	0.0006	-1.0898	-0.0381
SNB-C1	0.0000	-0.5678	-0.6874	-0.0000	0.5678	0.6874	0.0008	-0.8382	-0.1024
SNB-C2	0.0000	-0.5678	-0.6874	-0.0000	0.5678	0.6874	0.0008	-0.8413	-0.0226
SNB-D1	0.0000	-0.6119	-0.8173	-0.0000	0.6119	0.8173	0.0009	-0.6105	-0.0951
SNB-D2	0.0000	-0.6119	-0.8173	-0.0000	0.6119	0.8173	0.0010	-0.6141	-0.0108
SNB-E1	0.0000	-0.6208	-0.9805	-0.0000	0.6208	0.9805	0.0011	-0.4184	-0.0821
SNB-E2	0.0000	-0.6208	-0.9805	-0.0000	0.6208	0.9805	0.0012	-0.4223	-0.0051
SNB-F1	0.0000	-0.7000	-1.3252	-0.0000	0.7000	1.3252	0.0013	-0.2664	-0.0705
SNB-F2	0.0000	-0.7000	-1.3252	-0.0000	0.7000	1.3252	0.0013	-0.2709	-0.0010
SNB-G1	0.0000	-0.7560	-1.6362	-0.0000	0.7560	1.6362	0.0014	-0.1491	-0.0554
SNB-G2	0.0000	-0.7560	-1.6362	-0.0000	0.7560	1.6362	0.0014	-0.1540	0.0035
SNB-H1	0.0000	-0.7110	-1.7748	-0.0000	0.7110	1.7748	0.0016	-0.0655	-0.0291
SNB-H2	0.0000	-0.7110	-1.7748	-0.0000	0.7110	1.7748	0.0015	-0.0708	0.0045
SNB-I1	0.0000	-0.6987	-1.8902	-0.0000	0.6987	1.8902	0.0015	-0.0195	-0.0197
SNB-I2	0.0000	-0.6987	-1.8902	-0.0000	0.6987	1.8902	0.0015	-0.0205	0.0024
SNB-J1	0.0000	-0.3573	-0.9815	-4.6128	-13.7953	-309.4675	0.0000	0.0000	0.0000
SNB-J2	0.0000	-0.3573	-0.9815	-4.6128	-13.7953	-309.4675	0.0000	0.0000	0.0000
RohnA5	0.0000	-0.2853	-0.2919	0.0000	0.2853	0.2919	-0.0018	-1.2803	-0.0847
RohnA6	0.0000	-0.9534	-0.4692	0.0000	0.9534	0.4692	-0.0019	-1.2167	-0.0823
RohnA7	0.0000	-0.2113	-0.2692	0.0000	0.2113	0.2692	-0.0019	-1.1511	-0.0798
RohnB5	0.0000	-0.2630	-1.2704	0.0000	0.2630	1.2704	-0.0020	-0.9632	-0.0725
RohnB6	0.0000	-1.8217	-0.2934	0.0000	1.8217	0.2934	-0.0021	-0.8978	-0.0699
RohnB7	0.0000	-0.2630	-0.2934	0.0000	0.2630	0.2934	-0.0021	-0.8978	-0.0699
RohnC5	0.0000	-1.3178	-1.1720	-0.0000	1.3178	1.1720	-0.0022	-0.7600	-0.0641
RohnC6	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	-0.0023	-0.6832	-0.0607
RohnD5	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	-0.0025	-0.5421	-0.0540
RohnD6	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	-0.0026	-0.4774	-0.0506
RohnE5	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	-0.0028	-0.3648	-0.0440
RohnE6	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	-0.0029	-0.3135	-0.0408
RohnF5	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	-0.0030	-0.2014	-0.0329
RohnF6	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	-0.0033	-0.1016	-0.0235
RohnG5	0.0000	-0.3573	-0.9815	-0.0000	0.3573	0.9815	-0.0039	-0.0244	-0.0142
RohnG6	0.0000	-0.3573	-0.9815	-0.0000	0.3573	0.9815	-0.0062	-0.0020	-0.0050
RohnH5	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	-0.0011	-1.2813	-0.0792
RohnH6	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	-0.0011	-1.2171	-0.0768
SNB-A5	0.0000	-0.2630	-0.2934	0.0000	0.2630	0.2934	-0.0012	-0.9246	-0.0696
SNB-A6	0.0000	-0.2630	-0.2934	0.0000	0.2630	0.2934	-0.0014	-0.9624	-0.0672
SNB-B5	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	-0.0013	-0.8998	-0.0648
SNB-B6	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	-0.0015	-0.7601	-0.0593
SNB-C5	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	-0.0017	-0.6837	-0.0498
SNB-C6	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	-0.0018	-0.4774	-0.0467
SNB-D5	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	-0.0021	-0.3654	-0.0406
SNB-D6	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	-0.0022	-0.3144	-0.0377
SNB-E5	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	-0.0022	-0.2013	-0.0216
SNB-F5	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	-0.0022	-0.1017	-0.0216
SNB-F6	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	-0.0026	-0.1017	-0.0216
SNB-G5	0.0000	-0.3414	-0.9087	0.0000	0.3414	0.9087	-0.0031	-0.0344	-0.0130
SNB-G6	0.0000	-0.3414	-0.9087	0.0000	0.3414	0.9087	-0.0054	-0.0016	-0.0047
SNB-H5	0.0000	-0.3573	-0.9815	0.0000	0.3573	0.9815	-0.0054	-0.0016	-0.0047
SNB-H6	0.0000	-0.3573	-0.9815	0.0000	0.3573	0.9815	-0.0054	-0.0016	-0.0047
SNB-I5	0.0000	-0.2853	-0.2919	0.0000	0.2853	0.2919	-0.0004	-1.2803	-0.0347
SNB-I6	0.0000	-0.2853	-0.2919	0.0000	0.2853	0.2919	-0.0004	-1.2835	-0.0349
RohnA1	0.0000	-0.3411	0.3442	0.0000	0.3411	0.3442	0.0016	-1.2152	-0.1342
RohnA2	0.0000	-0.2113	0.2692	-0.0000	0.2112	0.2692	-0.0002	-1.2193	-0.0305
RohnB1	0.0000	-0.5618	0.5618	0.0000	0.5618	0.5618	0.0015	-1.1511	-0.1335
RohnB2	0.0000	-0.5618	0.5618	0.0000	0.5618	0.5618	0.0016	-1.1536	-0.0263
RohnC1	0.0000	-0.2113	0.2692	0.0000	0.2112	0.2692	0.0012	-1.0233	-0.1315
RohnC2	0.0000	-0.2630	0.2630	0.0000	0.2630	0.2630	0.0012	-1.0274	-0.0185
RohnD1	0.0000	-0.2630	0.2630	0.0000	0.2630	0.2630	0.0009	-1.0274	-0.0185
RohnD2	0.0000	-1.8763	1.8763	0.0000	1.8763	1.8763	0.0024	-0.9607	-0.1302
RohnE1	0.0000	-1.8763	1.8763	0.0000	1.8763	1.8763	0.0024	-0.9607	-0.1302
RohnE2	0.0000	-1.8763	1.8763	0.0000	1.8763	1.8763	0.0024	-0.9607	-0.1302
RohnF1	0.0000	-0.4048	0.4048	0.0000	0.4048	0.4048	0.0008	-0.9681	-0.1285
RohnF2	0.0000	-0.4048	0.4048	0.0000	0.4048	0.4048	0.0008	-0.9681	-0.1285
RohnG1	0.0000	-0.2630	0.2630	0.0000	0.2630	0.2630	0.0014	-0.9025	-0.0114
RohnG2	0.0000	-0.2630	0.2630	0.0000	0.2630	0.2630	0.0014	-0.9025	-0.0114
RohnH1	0.0000	-1.3167	1.3167	0.0000	1.3167	1.3167	0.0014	-0.7592	-0.1237
RohnH2	0.0000	-1.3167	1.3167	0.0000	1.3167	1.3167	0.0014	-0.7592	-0.1237
RohnI1	0.0000	-0.3048	0.3048	0.0000	0.3048	0.3048	0.0011	-0.7638	-0.0045
RohnI2	0.0000	-0.3048	0.3048	0.0000	0.3048	0.3048	0.0011	-0.7638	-0.1203
RohnJ1	0.0000	-0.3048	0.3048	0.0000	0.3048	0.3048	0.0014	-0.6876	-0.0012
RohnJ2	0.0000	-0.3048	0.3048	0.0000	0.3048	0.3048	0.0014	-0.6876	-0.1114
RohnD1	0.0000	-0.4360	0.4360	0.0000	0.4360	0.4360	0.0012	-0.5414	-0.1114
RohnD2	0.0000	-0.4360	0.4360	0.0000	0.4360	0.4360	0.0012	-0.5414	-0.1114
RohnD3	0.0000	-0.3071	0.3071	0.0000	0.3071	0.3071	0.0016	-0.5414	0.0034

RohnDb1	0.0000	-0.3688	-0.5103	0.0000	0.3688	0.5103	0.0009	-0.4771	-0.1058
RohnDb2	0.0000	-0.3071	-0.4253	0.0000	0.3071	0.4253	0.0019	-0.4822	0.0046
RohnBa1	0.0000	-0.3137	-0.5552	0.0000	0.3137	0.5552	0.0012	-0.3637	-0.0945
RohnBa2	0.0000	-0.3137	-0.5552	0.0000	0.3137	0.5552	0.0019	-0.3632	0.0065
RohnBb1	0.0000	-0.4361	-0.6802	0.0000	0.4361	0.6802	0.0010	-0.3129	-0.0890
RohnBb2	0.0000	-0.3137	-0.5552	0.0000	0.3137	0.5552	0.0021	-0.3185	0.0073
RohnFa1	0.0000	-0.3864	-0.7700	0.0000	0.3864	0.7700	-0.0008	-0.2031	-0.0742
RohnFa2	0.0000	-0.3864	-0.7700	0.0000	0.3864	0.7700	0.0037	-0.2087	0.0085
RohnGa1	0.0000	-0.3696	-0.8661	0.0000	0.3696	0.8661	-0.0006	-0.1029	-0.0551
RohnGa2	0.0000	-0.3696	-0.8661	0.0000	0.3696	0.8661	0.0039	-0.1090	0.0080
RohnHa1	0.0000	-0.3414	-0.9087	0.0000	0.3414	0.9087	-0.0006	-0.0354	-0.0339
RohnHa2	0.0000	-0.3414	-0.9087	0.0000	0.3414	0.9087	0.0043	-0.0423	0.0055
RohnIa1	0.0000	-0.3573	-0.9815	0.0000	0.3573	0.9815	0.0011	-0.0001	0.0116
RohnIa2	0.0000	-0.3573	-0.9815	0.0000	0.3573	0.9815	0.0050	-0.0109	0.0015
Rohnaa1	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0002	-1.2806	-0.1074
Rohnaa2	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0005	-1.2824	-0.0510
Rohnab1	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0005	-1.2156	-0.1072
Rohnab2	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0003	-1.2181	-0.0466
Rohnac1	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0002	-1.1514	-0.1067
Rohnac2	0.0000	-0.2113	-0.2692	-0.0000	0.2113	0.2692	0.0008	-1.1535	-0.0422
RohnBa1	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0003	-1.0239	-0.1054
RohnBa2	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0009	-1.0264	-0.0339
RohnBb1	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0008	-0.9608	-0.1046
RohnBb2	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0006	-0.9637	-0.0299
RohnBc1	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0004	-0.8990	-0.1035
RohnBc2	0.0000	-0.2630	-0.2954	-0.0000	0.2630	0.2954	0.0010	-0.9018	-0.0262
RohnCa1	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	0.0003	-0.7596	-0.1004
RohnCa2	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	0.0014	-0.7637	-0.0182
RohnCb1	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	0.0002	-0.6833	-0.0380
RohnCb2	0.0000	-0.3048	-0.3920	-0.0000	0.3048	0.3920	0.0016	-0.6865	-0.0142
RohnDa1	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	0.0002	-0.5418	-0.0914
RohnDa2	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	0.0018	-0.5453	-0.0082
RohnDb1	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	-0.0001	-0.4775	-0.0870
RohnDb2	0.0000	-0.3071	-0.4253	-0.0000	0.3071	0.4253	0.0021	-0.4811	-0.0063
RohnEa1	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	0.0006	-0.3643	-0.0786
RohnEa2	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	0.0017	-0.3684	-0.0026
RohnEb1	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	0.0005	-0.3135	-0.0747
RohnEb2	0.0000	-0.3137	-0.5552	-0.0000	0.3137	0.5552	0.0019	-0.3177	-0.0006
RohnFa1	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	-0.0014	-0.2037	-0.0633
RohnFa2	0.0000	-0.3864	-0.7700	-0.0000	0.3864	0.7700	0.0037	-0.2078	0.0026
RohnGa1	0.0000	-0.3696	-0.8661	-0.0000	0.3696	0.8661	-0.0011	-0.1035	-0.0476
RohnGa2	0.0000	-0.3696	-0.8661	-0.0000	0.3696	0.8661	0.0037	-0.1082	0.0043
RohnHa1	0.0000	-0.3414	-0.9087	-0.0000	0.3414	0.9087	-0.0010	-0.0361	-0.0298
RohnHa2	0.0000	-0.3414	-0.9087	-0.0000	0.3414	0.9087	0.0010	-0.0416	0.0037
RohnIa1	0.0000	-0.3573	-0.9815	-0.0000	0.3573	0.9815	0.0005	-0.0007	-0.0105
RohnIa2	0.0000	-0.3573	-0.9815	-0.0000	0.3573	0.9815	0.0048	-0.0101	0.0011

*** Analysis Results for Load Case No. 2 "W-I -60 deg" - Number of iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "W-I -60 deg":

Joint label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.6656	-1.155	-0.1143	0.0000	0.0000	0.0000	4.999	-1.155	179.9
RohnBP	0.5377	-0.9327	-0.1088	0.0000	0.0000	0.0000	5.659	-0.9327	159.9
RohnCP	0.414	-0.7199	-0.1012	0.0000	0.0000	0.0000	6.323	-0.7199	139.9
RohnDP	0.301	-0.5236	-0.09101	0.0000	0.0000	0.0000	6.996	-0.5236	119.9
RohnEP	0.2055	-0.3591	-0.07719	0.0000	0.0000	0.0000	7.687	-0.3591	99.92
RohnFP	0.113	-0.2293	-0.0636	0.0000	0.0000	0.0000	8.398	-0.2293	79.94
RohnGP	0.03158	-0.1287	-0.04802	0.0000	0.0000	0.0000	9.127	-0.1287	59.95
RohnHP	0.02998	-0.05819	-0.03378	0.0000	0.0000	0.0000	9.871	-0.05819	39.97
RohnIP	0.005266	-0.01574	-0.01659	0.0000	0.0000	0.0000	10.64	-0.01574	19.98
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SMB-AP	0.6664	-1.159	-0.09644	0.0000	0.0000	0.0000	2.999	-1.159	179.9
SMB-BP	0.5385	-0.9371	-0.09144	0.0000	0.0000	0.0000	3.66	-0.9371	159.9
SMB-CP	0.4149	-0.7227	-0.08528	0.0000	0.0000	0.0000	4.323	-0.7227	139.9
SMB-DP	0.3018	-0.5268	-0.07705	0.0000	0.0000	0.0000	4.997	-0.5268	119.9
SMB-EP	0.2063	-0.3615	-0.06563	0.0000	0.0000	0.0000	5.687	-0.3615	99.93
SMB-FP	0.1308	-0.231	-0.0557	0.0000	0.0000	0.0000	6.399	-0.231	79.94
SMB-GP	0.07237	-0.1303	-0.04283	0.0000	0.0000	0.0000	7.127	-0.1303	59.96
SMB-HP	0.03076	-0.05861	-0.02981	0.0000	0.0000	0.0000	7.872	-0.05861	39.97
SMB-IP	0.006047	-0.01549	-0.01495	0.0000	0.0000	0.0000	8.634	-0.01549	19.99
SMB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.6724	-1.16	-0.1147	0.0000	0.0000	0.0000	-1.494	-4.912	179.9
RohnA2	0.6643	-1.163	-0.0323	0.0000	0.0000	0.0000	-1.502	2.588	180
RohnB1	0.5445	-0.9374	-0.1091	0.0000	0.0000	0.0000	-2.016	-5.372	159.9
RohnB2	0.5372	-0.9414	-0.01415	0.0000	0.0000	0.0000	-2.023	3.494	160
RohnC1	0.421	-0.7227	-0.1014	0.0000	0.0000	0.0000	-2.534	-5.84	139.9
RohnC2	0.4148	-0.7269	0.000395	0.0000	0.0000	0.0000	-2.54	4.39	140
RohnD1	0.3067	-0.5256	-0.09121	0.0000	0.0000	0.0000	-3.041	-6.324	119.9
RohnD2	0.3029	-0.5309	0.01019	0.0000	0.0000	0.0000	-3.045	5.267	120
RohnE1	0.2113	-0.3559	-0.07733	0.0000	0.0000	0.0000	-3.529	-6.839	99.92
RohnE2	0.2083	-0.3655	0.01287	0.0000	0.0000	0.0000	-3.532	6.112	100
RohnF1	0.1359	-0.2289	-0.06369	0.0000	0.0000	0.0000	-3.998	-7.389	79.94
RohnF2	0.1336	-0.2348	0.01449	0.0000	0.0000	0.0000	-4	6.925	80.01
RohnG1	0.07825	-0.128	-0.04908	0.0000	0.0000	0.0000	-4.449	-7.97	59.95
RohnG2	0.076	-0.134	0.01359	0.0000	0.0000	0.0000	-4.451	7.708	60.01
RohnH1	0.03656	-0.06578	-0.03382	0.0000	0.0000	0.0000	-4.884	-8.578	39.97
RohnH2	0.0351	-0.06225	0.01099	0.0000	0.0000	0.0000	-4.885	8.46	40.01
RohnI1	0.016	-0.01279	-0.01671	0.0000	0.0000	0.0000	-5.303	-9.219	19.98
RohnI2	0.01046	-0.01884	0.005084	0.0000	0.0000	0.0000	-5.305	9.187	20.01
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SMB-A1	0.6678	-1.158	-0.09653	0.0000	0.0000	0.0000	-0.4887	-3.179	179.9
SMB-A2	0.6679	-1.16	-0.05167	0.0000	0.0000	0.0000	-0.4986	0.8604	179.9
SMB-B1	0.5404	-0.936	-0.09154	0.0000	0.0000	0.0000	-1.02	-3.639	159.9
SMB-B2	0.5405	-0.9385	-0.03297	0.0000	0.0000	0.0000	-1.02	1.764	160
SMB-C1	0.4172	-0.7214	-0.08536	0.0000	0.0000	0.0000	-1.537	-4.108	139.9
SMB-C2	0.4173	-0.7244	-0.01644	0.0000	0.0000	0.0000	-1.537	2.66	140
SMB-D1	0.3045	-0.5253	-0.07714	0.0000	0.0000	0.0000	-2.043	-4.591	119.9
SMB-D2	0.3047	-0.5288	-0.004609	0.0000	0.0000	0.0000	-2.043	3.537	120
SMB-E1	0.2094	-0.3598	-0.0657	0.0000	0.0000	0.0000	-2.531	-5.106	99.93
SMB-E2	0.2096	-0.3637	0.0005931	0.0000	0.0000	0.0000	-2.531	4.383	100
SMB-F1	0.1344	-0.229	-0.05526	0.0000	0.0000	0.0000	-3	-5.657	79.94
SMB-F2	0.1345	-0.2334	0.006246	0.0000	0.0000	0.0000	-2.999	5.195	80.01
SMB-G1	0.07652	-0.1279	-0.04287	0.0000	0.0000	0.0000	-3.451	-6.238	59.96
SMB-G2	0.07655	-0.1328	0.007807	0.0000	0.0000	0.0000	-3.451	5.977	60.01
SMB-H1	0.03534	-0.05598	-0.02984	0.0000	0.0000	0.0000	-3.885	-6.846	39.97
SMB-H2	0.0353	-0.06122	0.007646	0.0000	0.0000	0.0000	-3.885	6.729	40.01
SMB-I1	0.01039	-0.01299	-0.01496	0.0000	0.0000	0.0000	-4.304	-7.485	19.99
SMB-I2	0.01037	-0.01799	0.00396	0.0000	0.0000	0.0000	-4.304	7.454	20
SMB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SMB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0
RohnAAs	0.6335	-1.098	-0.1137	0.0000	0.0000	0.0000	5.164	-1.098	174.9
RohnBAs	0.6015	-1.043	-0.1119	0.0000	0.0000	0.0000	5.328	-1.043	169.9
RohnCAs	0.5695	-0.9872	-0.1104	0.0000	0.0000	0.0000	5.493	-0.9872	164.9
RohnDAs	0.5063	-0.8775	-0.1072	0.0000	0.0000	0.0000	5.824	-0.8775	154.9
RohnBAs	0.4749	-0.8259	-0.1054	0.0000	0.0000	0.0000	5.99	-0.8259	149.9

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RohmBcs	0.4443	-0.7697	-0.1034	0.0000	0.0000	0.0000	6.156	-0.7697	144.9
RohmCAs	0.3752	-0.6514	-0.09816	0.0000	0.0000	0.0000	6.546	-0.6514	133.2
RohmCDS	0.3374	-0.5855	-0.09474	0.0000	0.0000	0.0000	6.771	-0.5855	126.6
RohmDAs	0.2672	-0.4643	-0.08678	0.0000	0.0000	0.0000	7.224	-0.4643	113.3
RohmEAs	0.2353	-0.4088	-0.08214	0.0000	0.0000	0.0000	7.455	-0.4088	106.6
RohmFAs	0.1889	-0.3122	-0.0729	0.0000	0.0000	0.0000	7.922	-0.3122	93.27
RohmGAs	0.1537	-0.2655	-0.06835	0.0000	0.0000	0.0000	8.16	-0.2655	86.59
RohmHAs	0.09971	-0.112	-0.05652	0.0000	0.0000	0.0000	8.761	-0.112	69.94
RohmIAs	0.04978	-0.08646	-0.04157	0.0000	0.0000	0.0000	9.498	-0.08646	49.96
RohmJAs	-0.002876	-0.029	-0.02545	0.0000	0.0000	0.0000	10.25	-0.029	29.97
RohmKAs	-0.001504	-0.008772	0.0000	0.0000	0.0000	0.0000	11.02	-0.001504	9.991
RohmLAs	0.6344	-1.103	-0.0953	0.0000	0.0000	0.0000	3.164	-1.103	174.9
RohmMAs	0.6023	-1.048	-0.09411	0.0000	0.0000	0.0000	3.329	-1.048	169.9
RohmNAs	0.5703	-0.9948	-0.09282	0.0000	0.0000	0.0000	3.494	-0.9948	164.9
RohmOAs	0.5072	-0.882	-0.08603	0.0000	0.0000	0.0000	3.825	-0.882	154.9
RohmPAs	0.4758	-0.8284	-0.08856	0.0000	0.0000	0.0000	3.99	-0.8284	149.9
RohmQAs	0.4452	-0.7745	-0.08695	0.0000	0.0000	0.0000	4.156	-0.7745	144.9
RohmRAs	0.3761	-0.6541	-0.08278	0.0000	0.0000	0.0000	4.546	-0.6541	133.3
RohmSAs	0.3382	-0.5883	-0.08002	0.0000	0.0000	0.0000	4.771	-0.5883	126.6
RohmTAs	0.268	-0.4665	-0.07358	0.0000	0.0000	0.0000	5.225	-0.4665	113.3
RohmUAs	0.2361	-0.4107	-0.06973	0.0000	0.0000	0.0000	5.455	-0.4107	106.6
RohmVAs	0.1797	-0.3143	-0.06237	0.0000	0.0000	0.0000	5.923	-0.3143	93.28
RohmWAs	0.1545	-0.2704	-0.05886	0.0000	0.0000	0.0000	6.16	-0.2704	86.6
RohmXAs	0.1005	-0.173	-0.04919	0.0000	0.0000	0.0000	6.762	-0.173	69.95
RohmYAs	0.05057	-0.08741	-0.03649	0.0000	0.0000	0.0000	7.499	-0.08741	49.96
RohmZAs	0.01688	-0.02947	-0.02261	0.0000	0.0000	0.0000	8.251	-0.02947	29.98
Rohm1As	-0.002095	-0.001359	-0.006019	0.0000	0.0000	0.0000	9.019	-0.001359	9.992
Rohm2As	0.6407	-1.104	-0.1135	0.0000	0.0000	0.0000	-1.624	-3.028	174.9
Rohm3As	0.6326	-1.107	-0.02745	0.0000	0.0000	0.0000	-1.632	-2.816	175
Rohm4As	0.6082	-1.048	-0.1122	0.0000	0.0000	0.0000	-1.755	-5.142	169.9
Rohm5As	0.6001	-1.052	-0.02278	0.0000	0.0000	0.0000	-1.763	-3.042	170
Rohm6As	0.5764	-0.9929	-0.01874	0.0000	0.0000	0.0000	-1.886	-5.257	164.9
Rohm7As	0.5689	-0.964	-0.01834	0.0000	0.0000	0.0000	-1.893	-3.268	165
Rohm8As	0.512	-0.8823	-0.1074	0.0000	0.0000	0.0000	-2.147	-5.488	154.9
Rohm9As	0.5062	-0.8868	-0.01009	0.0000	0.0000	0.0000	-2.153	-3.719	155
Rohm10As	0.4827	-0.8289	-0.1057	0.0000	0.0000	0.0000	-2.275	-5.605	149.9
Rohm11As	0.4751	-0.8325	-0.006241	0.0000	0.0000	0.0000	-2.382	-3.941	150
Rohm12As	0.4491	-0.7741	-0.1036	0.0000	0.0000	0.0000	-2.407	-5.721	144.9
Rohm13As	0.4499	-0.7791	-0.002698	0.0000	0.0000	0.0000	-2.411	-4.166	145
Rohm14As	0.3809	-0.6545	-0.09638	0.0000	0.0000	0.0000	-2.704	-5.999	133.2
Rohm15As	0.3763	-0.6593	0.004331	0.0000	0.0000	0.0000	-2.709	-4.685	133.3
Rohm16As	0.3424	-0.5884	-0.09494	0.0000	0.0000	0.0000	-2.874	-6.16	126.6
Rohm17As	0.3387	-0.5937	0.007601	0.0000	0.0000	0.0000	-2.878	-4.978	126.7
Rohm18As	0.2721	-0.4665	-0.08697	0.0000	0.0000	0.0000	-3.206	-6.491	113.3
Rohm19As	0.2691	-0.4719	-0.01187	0.0000	0.0000	0.0000	-3.209	-5.553	113.4
Rohm20As	0.2397	-0.4108	-0.0823	0.0000	0.0000	0.0000	-3.372	-6.663	106.6
Rohm21As	0.2375	-0.4167	0.01275	0.0000	0.0000	0.0000	-3.372	-5.835	106.7
Rohm22As	0.1838	-0.3131	-0.07303	0.0000	0.0000	0.0000	-3.688	-7.019	93.27
Rohm23As	0.1818	-0.3191	-0.0139	0.0000	0.0000	0.0000	-3.69	-6.387	93.35
Rohm24As	0.1583	-0.2693	-0.0646	0.0000	0.0000	0.0000	-3.845	-7.203	86.59
Rohm25As	0.1569	-0.2755	-0.01444	0.0000	0.0000	0.0000	-3.846	-6.658	86.67
Rohm26As	0.1011	-0.1738	-0.0566	0.0000	0.0000	0.0000	-4.23	-7.675	69.94
Rohm27As	0.1032	-0.1816	-0.01454	0.0000	0.0000	0.0000	-4.228	-7.319	70.01
Rohm28As	0.05145	-0.0873	-0.04162	0.0000	0.0000	0.0000	-4.673	-8.27	49.96
Rohm29As	0.05413	-0.09564	-0.01267	0.0000	0.0000	0.0000	-4.67	-8.087	50.01
Rohm30As	0.01795	-0.02898	-0.02548	0.0000	0.0000	0.0000	-5.1	-8.893	29.97
Rohm31As	0.02149	-0.0383	0.008162	0.0000	0.0000	0.0000	-5.096	-8.826	30.01
Rohm32As	0.003048	0.001559	-0.00878	0.0000	0.0000	0.0000	-5.509	-9.546	9.991
Rohm33As	0.006222	-0.01113	-0.00246	0.0000	0.0000	0.0000	-5.506	-9.537	10
Rohm34As	0.6358	-1.103	-0.09539	0.0000	0.0000	0.0000	-6.692	-3.294	174.9
Rohm35As	0.6361	-1.104	-0.0468	0.0000	0.0000	0.0000	-6.689	-1.087	175
Rohm36As	0.6039	-1.047	-0.09422	0.0000	0.0000	0.0000	-7.596	-3.408	169.9
Rohm37As	0.6033	-1.049	-0.04201	0.0000	0.0000	0.0000	-7.596	-1.313	170
Rohm38As	0.5717	-0.9912	-0.09293	0.0000	0.0000	0.0000	-8.903	-3.523	164.9
Rohm39As	0.5723	-0.9934	-0.07193	0.0000	0.0000	0.0000	-8.897	-1.539	165
Rohm40As	0.5085	-0.8813	-0.09614	0.0000	0.0000	0.0000	-1.15	-3.755	154.9
Rohm41As	0.5092	-0.884	-0.02858	0.0000	0.0000	0.0000	-1.15	-1.989	155
Rohm42As	0.4779	-0.8271	-0.08866	0.0000	0.0000	0.0000	-1.279	-3.871	149.9
Rohm43As	0.478	-0.8299	-0.02451	0.0000	0.0000	0.0000	-1.279	-2.218	150
Rohm44As	0.4467	-0.7737	-0.08705	0.0000	0.0000	0.0000	-1.409	-3.988	144.9
Rohm45As	0.4474	-0.7766	-0.02039	0.0000	0.0000	0.0000	-1.408	-2.437	145
Rohm46As	0.3774	-0.6534	-0.08288	0.0000	0.0000	0.0000	-1.708	-4.265	133.3
Rohm47As	0.3785	-0.657	-0.01205	0.0000	0.0000	0.0000	-1.707	-2.954	133.3
Rohm48As	0.3394	-0.5877	-0.08012	0.0000	0.0000	0.0000	-1.877	-4.427	126.6

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Rohm11	0.3434	-0.5947	-1.8902	-0.3434	0.5947	1.8902	0.0116	-0.0128	-0.0167
Rohm12	0.3434	-0.5947	-1.8902	-0.3434	0.5947	1.8902	0.0105	-0.0188	0.0051
Rohm21	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0000	0.0000	0.0000
Rohm22	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0000	0.0000	0.0000
Rohm31	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6678	-1.1582	-0.0965
Rohm32	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6679	-1.1600	-0.0915
Rohm41	0.2348	-0.4067	-0.5646	-0.2348	0.4067	0.5646	0.5404	-0.9360	-0.0915
Rohm42	0.2348	-0.4067	-0.5646	-0.2348	0.4067	0.5646	0.5405	-0.9385	-0.0330
Rohm51	0.2348	-0.4067	-0.5646	-0.2348	0.4067	0.5646	0.5405	-0.9385	-0.0330
Rohm52	0.2348	-0.4067	-0.5646	-0.2348	0.4067	0.5646	0.5405	-0.9385	-0.0330
Rohm61	0.2811	-0.4868	-0.6874	-0.2811	0.4868	0.6874	0.4172	-0.7214	-0.0834
Rohm62	0.2811	-0.4868	-0.6874	-0.2811	0.4868	0.6874	0.4173	-0.7244	-0.0186
Rohm71	0.3026	-0.5241	-0.8173	-0.3026	0.5241	0.8173	0.3047	-0.5253	0.0771
Rohm72	0.3026	-0.5241	-0.8173	-0.3026	0.5241	0.8173	0.3047	-0.5288	-0.0046
Rohm81	0.3065	-0.5309	-0.9805	-0.3065	0.5309	0.9805	0.2094	-0.3598	-0.0637
Rohm82	0.3065	-0.5309	-0.9805	-0.3065	0.5309	0.9805	0.2096	-0.3637	0.0006
Rohm91	0.3452	-0.5979	-1.3252	-0.3452	0.5979	1.3252	0.1344	-0.2290	-0.0553
Rohm92	0.3452	-0.5979	-1.3252	-0.3452	0.5979	1.3252	0.1345	-0.2334	0.0082
Rohm101	0.3726	-0.6454	-1.6362	-0.3726	0.6454	1.6362	0.0765	-0.1279	-0.0429
Rohm102	0.3726	-0.6454	-1.6362	-0.3726	0.6454	1.6362	0.0765	-0.1328	0.0078
Rohm111	0.3501	-0.6065	-1.7748	-0.3501	0.6065	1.7748	0.0353	-0.0560	-0.0298
Rohm112	0.3501	-0.6065	-1.7748	-0.3501	0.6065	1.7748	0.0353	-0.0612	0.0076
Rohm121	0.3434	-0.5947	-1.8902	-0.3434	0.5947	1.8902	0.0104	-0.0130	-0.0130
Rohm122	0.3434	-0.5947	-1.8902	-0.3434	0.5947	1.8902	0.0104	-0.0180	0.0040
Rohm211	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0000	0.0000	0.0000
Rohm212	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0000	0.0000	0.0000
Rohm221	0.1415	-0.2451	-0.2919	-0.1415	0.2451	0.2919	0.6335	-1.0983	-0.1132
Rohm222	0.1415	-0.2451	-0.2919	-0.1415	0.2451	0.2919	0.6335	-1.0983	-0.1132
Rohm311	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6015	-1.0433	-0.1119
Rohm312	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6015	-1.0433	-0.1119
Rohm321	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2632	-0.4643	-0.0868
Rohm322	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2632	-0.4643	-0.0868
Rohm411	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1789	-0.3122	-0.0729
Rohm412	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1537	-0.2685	-0.0684
Rohm421	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.0987	-0.1720	-0.0565
Rohm422	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.0498	-0.0865	-0.0416
Rohm511	0.1680	-0.2909	-0.9087	-0.1680	0.2909	0.9087	0.0161	-0.0290	-0.0254
Rohm512	0.1680	-0.2909	-0.9087	-0.1680	0.2909	0.9087	0.0161	-0.0290	-0.0254
Rohm521	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	-0.0025	-0.0015	-0.0088
Rohm522	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	-0.0025	-0.0015	-0.0088
Rohm611	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6344	-1.1032	-0.0933
Rohm612	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6023	-1.0477	-0.0941
Rohm621	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5703	-0.9918	-0.0948
Rohm622	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5703	-0.9918	-0.0948
Rohm711	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.5072	-0.8820	-0.0900
Rohm712	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4758	-0.8284	-0.0886
Rohm721	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4452	-0.7745	-0.0869
Rohm722	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.3761	-0.6541	-0.0828
Rohm811	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3382	-0.5883	-0.0800
Rohm812	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.2680	-0.4665	-0.0736
Rohm821	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2361	-0.4107	-0.0697
Rohm822	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.1797	-0.3143	-0.0624
Rohm911	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1545	-0.2704	-0.0589
Rohm912	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1005	-0.1730	-0.0492
Rohm921	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.1005	-0.1730	-0.0492
Rohm922	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.1005	-0.1730	-0.0492
Rohm1011	0.1680	-0.2909	-0.9087	-0.1680	0.2909	0.9087	0.0506	-0.0874	-0.0365
Rohm1012	0.1680	-0.2909	-0.9087	-0.1680	0.2909	0.9087	0.0169	-0.0295	-0.0226
Rohm1021	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	-0.0021	-0.0014	-0.0080
Rohm1022	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	-0.0021	-0.0014	-0.0080
Rohm1111	0.1415	-0.2451	-0.2919	-0.1415	0.2451	0.2919	0.6336	-1.1045	-0.1135
Rohm1112	0.1415	-0.2451	-0.2919	-0.1415	0.2451	0.2919	0.6336	-1.1045	-0.1135
Rohm1121	0.1694	-0.2935	-0.3442	-0.1694	0.2935	0.3442	0.6082	-1.0481	-0.1122
Rohm1122	0.1694	-0.2935	-0.3442	-0.1694	0.2935	0.3442	0.6082	-1.0481	-0.1122
Rohm1211	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6001	-1.0527	-0.0228
Rohm1212	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5764	-0.9925	-0.1107
Rohm1221	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5689	-0.9964	-0.1083
Rohm1222	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5120	-0.8823	-0.1074
Rohm2111	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.5062	-0.8868	-0.1017
Rohm2112	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4827	-0.8288	-0.1057
Rohm2121	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4751	-0.8325	-0.1062
Rohm2122	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4204	-0.7741	-0.1036
Rohm2211	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.4449	-0.7791	-0.10027
Rohm2212	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3809	-0.6545	-0.0984
Rohm2221	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.3763	-0.6593	0.0043
Rohm2222	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.3424	-0.5884	-0.00919
Rohm3111	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.3387	-0.5937	0.0076
Rohm3112	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.2721	-0.4665	-0.0870
Rohm3121	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.2691	-0.4719	0.0119
Rohm3122	0.1905	-0.3299	-0.7700	-0.1905	0.3299	0.7700	0.2691	-0.4719	0.0119

Rohndb1	0.1827	-0.3164	-0.5103	-0.1827	0.3164	0.5103	0.2397	-0.4108	-0.0823
Rohndb2	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2375	-0.4167	0.0126
Rohndb3	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1838	-0.3131	-0.0730
Rohndb4	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1818	-0.3191	0.0139
Rohndb5	0.2159	-0.3740	-0.6802	-0.2159	0.3740	0.6802	0.1563	-0.2693	-0.0685
Rohndb6	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1569	-0.2755	0.0144
Rohndb7	0.1905	-0.3298	-0.7700	-0.1905	0.3298	0.7700	0.1011	-0.1738	-0.0566
Rohndb8	0.1905	-0.3298	-0.7700	-0.1905	0.3298	0.7700	0.1032	-0.1816	0.0345
Rohndb9	0.1822	-0.3155	-0.6661	-0.1822	0.3155	0.6661	0.0515	-0.0875	-0.0416
Rohndb10	0.1822	-0.3155	-0.6661	-0.1822	0.3155	0.6661	0.0541	-0.0956	0.0127
Rohndb11	0.1680	-0.2908	-0.9087	-0.1680	0.2908	0.9087	0.0179	-0.0290	0.0255
Rohndb12	0.1754	-0.2908	-0.9087	-0.1754	0.2908	0.9087	0.0215	-0.0383	0.0084
Rohndb13	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0030	0.0016	-0.0088
Rohndb14	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0062	-0.0111	0.0025
Rohndb15	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6358	-1.1026	-0.0954
Rohndb16	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6361	-1.1044	-0.0468
Rohndb17	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6039	-1.0466	-0.0942
Rohndb18	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.6039	-1.0466	-0.0942
Rohndb19	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5717	-0.9912	-0.0829
Rohndb20	0.1045	-0.1810	-0.2692	-0.1045	0.1810	0.2692	0.5723	-0.9934	-0.0374
Rohndb21	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.5085	-0.8813	-0.0501
Rohndb22	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.5092	-0.8840	-0.0286
Rohndb23	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4779	-0.8271	-0.0687
Rohndb24	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4780	-0.8299	-0.0244
Rohndb25	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4467	-0.7737	-0.0871
Rohndb26	0.1303	-0.2257	-0.2954	-0.1303	0.2257	0.2954	0.4474	-0.7766	-0.0204
Rohndb27	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3774	-0.6534	-0.0829
Rohndb28	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3785	-0.6576	-0.0121
Rohndb29	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3394	-0.5877	-0.0801
Rohndb30	0.1508	-0.2611	-0.3920	-0.1508	0.2611	0.3920	0.3408	-0.5915	-0.0080
Rohndb31	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2693	-0.4658	-0.0737
Rohndb32	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2708	-0.4700	-0.0021
Rohndb33	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2370	-0.4102	-0.0698
Rohndb34	0.1518	-0.2630	-0.4253	-0.1518	0.2630	0.4253	0.2391	-0.4149	-0.0004
Rohndb35	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1820	-0.3130	-0.0624
Rohndb36	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1830	-0.3175	0.0030
Rohndb37	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1566	-0.2692	-0.0589
Rohndb38	0.1547	-0.2680	-0.5552	-0.1547	0.2680	0.5552	0.1579	-0.2740	-0.0048
Rohndb39	0.1905	-0.3298	-0.7700	-0.1905	0.3298	0.7700	0.0894	-0.1737	-0.0492
Rohndb40	0.1905	-0.3298	-0.7700	-0.1905	0.3298	0.7700	0.1039	-0.1803	0.0075
Rohndb41	0.1822	-0.3155	-0.6661	-0.1822	0.3155	0.6661	0.0503	-0.0876	-0.0365
Rohndb42	0.1822	-0.3155	-0.6661	-0.1822	0.3155	0.6661	0.0545	-0.0945	-0.0081
Rohndb43	0.1680	-0.2908	-0.9087	-0.1680	0.2908	0.9087	0.0171	-0.0294	-0.0226
Rohndb44	0.1680	-0.2908	-0.9087	-0.1680	0.2908	0.9087	0.0216	-0.0374	0.0062
Rohndb45	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0022	-0.0311	-0.0080
Rohndb46	0.1754	-0.3038	-0.9815	-0.1754	0.3038	0.9815	0.0060	-0.0104	0.0020

*** Analysis Results for Load Case No. 3 "W+I 0 deg" - Number of iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "W+I 0 deg":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pose (ft)	Y-Pose (ft)	Z-Pose (ft)
RohnAP	1.367	0.006332	-0.1433	0.0000	0.0000	0.0000	5.7	0.006332	179.9
RohnBP	1.105	0.006164	-0.1421	0.0000	0.0000	0.0000	6.226	0.006164	159.9
RohnCP	0.8521	0.004948	-0.1368	0.0000	0.0000	0.0000	6.761	0.004948	139.9
RohnDP	0.6208	0.003916	-0.1265	0.0000	0.0000	0.0000	7.316	0.003916	119.9
RohnEP	0.4254	0.002136	-0.1088	0.0000	0.0000	0.0000	7.906	0.002136	99.99
RohnFP	0.2107	0.002421	-0.09102	0.0000	0.0000	0.0000	8.539	0.002421	79.91
RohnGP	0.1511	0.001819	-0.07102	0.0000	0.0000	0.0000	9.206	0.001819	59.93
RohnHP	0.06582	0.001181	-0.04954	0.0000	0.0000	0.0000	9.907	0.001181	39.95
RohnIP	0.01479	0.0006074	-0.02437	0.0000	0.0000	0.0000	10.64	0.0006074	19.98
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
RohnAP	1.368	-0.001562	-0.1123	0.0000	0.0000	0.0000	3.701	-0.001562	179.9
RohnBP	1.106	-0.001097	-0.1121	0.0000	0.0000	0.0000	4.227	-0.001097	159.9
RohnCP	0.8531	-0.0007513	-0.1094	0.0000	0.0000	0.0000	4.761	-0.0007513	139.9
RohnDP	0.6218	-0.0004818	-0.1025	0.0000	0.0000	0.0000	5.317	-0.0004818	119.9
RohnEP	0.4263	-0.0002853	-0.08888	0.0000	0.0000	0.0000	5.907	-0.0002853	99.91
RohnFP	0.2116	-0.0001541	-0.07679	0.0000	0.0000	0.0000	6.54	-0.0001541	79.92
RohnGP	0.1519	-6.918E-005	-0.06065	0.0000	0.0000	0.0000	7.207	-6.918E-005	59.94
RohnHP	0.06661	-2.009E-005	-0.04301	0.0000	0.0000	0.0000	7.908	-2.009E-005	39.96
RohnIP	0.01558	2.074E-007	-0.02163	0.0000	0.0000	0.0000	8.644	2.074E-007	19.98
RohnJP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnAI	1.377	-0.00417	-0.05958	0.0000	0.0000	0.0000	-0.7896	-3.757	179.9
RohnA2	1.363	-0.00659	-0.05923	0.0000	0.0000	0.0000	-0.8032	-3.746	179.9
RohnB1	1.115	-0.003059	-0.04548	0.0000	0.0000	0.0000	-1.445	-4.428	160
RohnB2	1.102	-0.006479	-0.04315	0.0000	0.0000	0.0000	-2.093	-5.119	140
RohnC1	0.8616	-0.001936	-0.03105	0.0000	0.0000	0.0000	-2.103	-5.112	140
RohnC2	0.6286	-0.005345	-0.03277	0.0000	0.0000	0.0000	-2.719	-5.798	120
RohnD1	0.4289	-0.0001919	-0.02304	0.0000	0.0000	0.0000	-2.727	-5.793	120
RohnD2	0.6209	-0.00529	-0.02281	0.0000	0.0000	0.0000	-3.308	-6.478	99.98
RohnE1	0.4328	0.0006831	-0.01659	0.0000	0.0000	0.0000	-3.314	-6.474	99.98
RohnE2	0.4368	-0.004784	-0.01662	0.0000	0.0000	0.0000	-3.856	-7.159	79.99
RohnF1	0.2779	0.001519	-0.01087	0.0000	0.0000	0.0000	-3.861	-7.156	79.99
RohnF2	0.2732	-0.004462	-0.01087	0.0000	0.0000	0.0000	-4.359	-7.84	59.99
RohnG1	0.1585	0.001856	-0.006803	0.0000	0.0000	0.0000	-4.372	-7.838	59.99
RohnG2	0.1552	-0.003934	-0.00724	0.0000	0.0000	0.0000	-4.848	-8.52	40
RohnH1	0.07276	0.002573	-0.003569	0.0000	0.0000	0.0000	-4.85	-8.519	40
RohnH2	0.07066	-0.003851	-0.003522	0.0000	0.0000	0.0000	-5.294	-9.203	20
RohnI1	0.02124	0.002625	-0.001987	0.0000	0.0000	0.0000	-5.295	-9.203	20
RohnI2	0.02018	-0.003249	-0.001967	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-2.021	179.9	
SNB-A1	1.369	-0.0008424	-0.06653	0.0000	0.0000	0.0000	0.203	-2.018	179.9
SNB-A2	1.369	-0.002413	-0.06653	0.0000	0.0000	0.0000	-0.2023	-2.018	179.9
SNB-B1	1.108	-0.0001343	-0.05224	0.0000	0.0000	0.0000	-0.4522	-2.703	159.9
SNB-B2	1.108	-0.00222	-0.05223	0.0000	0.0000	0.0000	-0.4522	-2.701	159.9
SNB-C1	0.8558	0.0005107	-0.03923	0.0000	0.0000	0.0000	-1.098	-3.384	140
SNB-C2	0.8557	-0.002163	-0.03913	0.0000	0.0000	0.0000	-1.098	-3.382	140
SNB-D1	0.6248	0.001083	-0.02837	0.0000	0.0000	0.0000	-1.723	-4.065	120
SNB-D2	0.6247	-0.002179	-0.02837	0.0000	0.0000	0.0000	-1.723	-4.064	120
SNB-E1	0.4296	0.001582	-0.02105	0.0000	0.0000	0.0000	-2.311	-4.745	99.98
SNB-E2	0.4296	-0.00225	-0.02098	0.0000	0.0000	0.0000	-2.311	-4.744	99.98
SNB-F1	0.2754	0.001947	-0.01379	0.0000	0.0000	0.0000	-2.859	-5.426	79.99
SNB-F2	0.2753	-0.003335	-0.01373	0.0000	0.0000	0.0000	-2.859	-5.426	79.99
SNB-G1	0.1562	0.002229	-0.00868	0.0000	0.0000	0.0000	-3.371	-6.108	59.99
SNB-G2	0.1561	-0.002486	-0.008624	0.0000	0.0000	0.0000	-3.371	-6.107	59.99
SNB-H1	0.07122	0.00256	-0.004517	0.0000	0.0000	0.0000	-3.849	-6.788	40
SNB-H2	0.0712	-0.002639	-0.004489	0.0000	0.0000	0.0000	-3.849	-6.788	40
SNB-I1	0.0199	0.002498	-0.002169	0.0000	0.0000	0.0000	-4.294	-7.47	20
SNB-I2	0.01989	-0.002516	-0.002157	0.0000	0.0000	0.0000	-4.294	-7.47	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
RohnAS	1.301	0.006365	-0.1434	0.0000	0.0000	0.0000	5.831	0.006365	174.9
RohnBS	1.236	0.006873	-0.1432	0.0000	0.0000	0.0000	5.963	0.006873	169.9
RohnCS	1.17	0.006251	-0.1428	0.0000	0.0000	0.0000	6.094	0.006251	164.9
RohnDS	1.041	0.00573	-0.1413	0.0000	0.0000	0.0000	6.359	0.00573	154.9
RohnBS	0.9767	0.005427	-0.1403	0.0000	0.0000	0.0000	6.492	0.005427	149.9

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RohmBcs	0.914	0.004966	-0.1388	0.0000	0.0000	0.0000	6.626	0.004966	144.9
RohmCas	0.7726	0.004571	-0.1341	0.0000	0.0000	0.0000	6.943	0.004571	133.2
RohmCbs	0.6951	0.004257	-0.1307	0.0000	0.0000	0.0000	7.128	0.004257	126.5
RohmDAs	0.5515	0.003676	-0.1214	0.0000	0.0000	0.0000	7.508	0.003676	113.2
RohmDbs	0.4862	0.003447	-0.1155	0.0000	0.0000	0.0000	7.705	0.003447	106.5
RohmEAs	0.3707	0.002935	-0.1034	0.0000	0.0000	0.0000	8.114	0.002935	93.24
RohmEbs	0.3191	0.002662	-0.09743	0.0000	0.0000	0.0000	8.325	0.002662	86.56
RohmFAs	0.2053	0.002119	-0.08152	0.0000	0.0000	0.0000	8.87	0.002119	69.92
RohmFbs	0.1061	0.001507	-0.06068	0.0000	0.0000	0.0000	9.554	0.001507	49.94
RohmGAs	0.03728	0.0009021	-0.03737	0.0000	0.0000	0.0000	10.27	0.0009021	29.96
RohmGbs	0.000616	0.0003108	-0.01274	0.0000	0.0000	0.0000	11.03	0.0003108	9.987
RohmHAs	1.2302	-0.001505	-0.1125	0.0000	0.0000	0.0000	3.832	-0.001505	174.9
RohmHbs	1.237	-0.001192	-0.1125	0.0000	0.0000	0.0000	3.964	-0.001192	169.9
RohmIAs	1.171	-0.001272	-0.1124	0.0000	0.0000	0.0000	4.095	-0.001272	164.9
RohmIbs	1.642	-0.001017	-0.1117	0.0000	0.0000	0.0000	4.36	-0.001017	154.9
RohmJAs	0.7777	-0.000883	-0.1111	0.0000	0.0000	0.0000	4.482	-0.000883	149.9
RohmJbs	0.915	-0.0008411	-0.1104	0.0000	0.0000	0.0000	4.626	-0.0008411	144.9
RohmKAs	0.7735	-0.0006533	-0.1076	0.0000	0.0000	0.0000	4.944	-0.0006533	133.2
RohmKbs	0.6961	-0.0005584	-0.1053	0.0000	0.0000	0.0000	5.129	-0.0005584	126.6
RohmLAs	0.5524	-0.0004073	-0.09869	0.0000	0.0000	0.0000	5.509	-0.0004073	113.2
RohmLbs	0.4871	-0.0003328	-0.0941	0.0000	0.0000	0.0000	5.706	-0.0003328	106.6
RohmMAs	0.3716	-0.00023	-0.08533	0.0000	0.0000	0.0000	6.115	-0.00023	93.25
RohmMbs	0.3199	-0.0001949	-0.08124	0.0000	0.0000	0.0000	6.336	-0.0001949	86.58
RohmNAs	0.2091	-0.0001023	-0.06914	0.0000	0.0000	0.0000	6.871	-0.0001023	69.93
RohmNbs	0.1069	-0.0001005	-0.05223	0.0000	0.0000	0.0000	7.555	-0.0001005	49.95
RohmOAs	0.03807	-3.335e-006	-0.02377	0.0000	0.0000	0.0000	9.273	-3.325e-006	29.97
RohmObs	0.001397	4.242e-006	-0.01155	0.0000	0.0000	0.0000	9.923	4.242e-006	9.988
RohmAb1	1.312	-0.004237	-0.05594	0.0000	0.0000	0.0000	-0.953	-5.927	174.9
RohmAb2	1.297	-0.006993	-0.05555	0.0000	0.0000	0.0000	-0.965	-5.916	174.9
RohmAb3	1.246	-0.003692	-0.05233	0.0000	0.0000	0.0000	-1.118	-4.097	169.9
RohmAb4	1.232	-0.007028	-0.05196	0.0000	0.0000	0.0000	-1.132	-4.087	169.9
RohmAb5	1.181	-0.003531	-0.04886	0.0000	0.0000	0.0000	-1.281	-4.268	165
RohmAb6	1.167	-0.006836	-0.04848	0.0000	0.0000	0.0000	-1.295	-4.257	165
RohmAb7	1.05	-0.002238	-0.04216	0.0000	0.0000	0.0000	-1.609	-4.608	155
RohmAb8	1.038	-0.006674	-0.04183	0.0000	0.0000	0.0000	-1.621	-4.599	155
RohmAb9	0.9872	-0.002922	-0.03898	0.0000	0.0000	0.0000	-1.77	-4.779	150
RohmAb10	0.9763	-0.003336	-0.03866	0.0000	0.0000	0.0000	-1.781	-4.771	150
RohmAb11	0.9215	-0.001123	-0.03587	0.0000	0.0000	0.0000	-1.934	-4.946	145
RohmAb12	0.9113	-0.006518	-0.03557	0.0000	0.0000	0.0000	-1.945	-4.94	145
RohmAb13	0.7807	-0.001026	-0.02837	0.0000	0.0000	0.0000	-2.305	-5.345	133.3
RohmAb14	0.7715	-0.003659	-0.02811	0.0000	0.0000	0.0000	-2.314	-5.338	133.3
RohmAb15	0.7024	-0.0003349	-0.02576	0.0000	0.0000	0.0000	-2.514	-5.572	126.6
RohmAb16	0.694	-0.003743	-0.02576	0.0000	0.0000	0.0000	-2.523	-5.566	126.6
RohmAb17	0.5588	0.0003265	-0.02047	0.0000	0.0000	0.0000	-2.92	-6.024	113.3
RohmAb18	0.5511	0.0003374	-0.02025	0.0000	0.0000	0.0000	-2.927	-6.019	113.3
RohmAb19	0.4924	0.0008182	-0.01832	0.0000	0.0000	0.0000	-3.117	-6.251	106.6
RohmAb20	0.4858	0.000545	-0.01812	0.0000	0.0000	0.0000	-3.124	-6.247	106.6
RohmAb21	0.377	0.001346	-0.01447	0.0000	0.0000	0.0000	-3.494	-6.704	93.33
RohmAb22	0.3715	-0.003063	-0.01432	0.0000	0.0000	0.0000	-3.75	-6.932	86.63
RohmAb23	0.3251	0.00171	-0.0126	0.0000	0.0000	0.0000	-3.676	-6.932	86.63
RohmAb24	0.3201	-0.005062	-0.01246	0.0000	0.0000	0.0000	-3.683	-6.928	86.63
RohmAb25	0.2108	0.003756	-0.008606	0.0000	0.0000	0.0000	-4.112	-7.497	69.99
RohmAb26	0.2069	0.006427	-0.008508	0.0000	0.0000	0.0000	-4.124	-7.495	69.99
RohmAb27	0.1085	0.004417	-0.004967	0.0000	0.0000	0.0000	-4.615	-8.178	50
RohmAb28	0.1058	-0.00609	-0.004905	0.0000	0.0000	0.0000	-4.618	-8.176	50
RohmAb29	0.03965	0.005372	-0.002614	0.0000	0.0000	0.0000	-5.078	-8.859	30
RohmAb30	0.03807	-0.006319	-0.002581	0.0000	0.0000	0.0000	-5.08	-8.858	30
RohmAb31	0.00674	0.0007144	-0.00117	0.0000	0.0000	0.0000	-5.506	-9.541	9.999
RohmAb32	0.006208	-0.007453	-0.001161	0.0000	0.0000	0.0000	-5.506	-9.54	9.999
RohmAb33	1.304	-0.0005952	-0.06298	0.0000	0.0000	0.0000	0.03906	-2.182	174.9
RohmAb34	1.304	-0.002354	-0.06287	0.0000	0.0000	0.0000	0.03987	-2.189	174.9
RohmAb35	1.238	-0.000475	-0.05934	0.0000	0.0000	0.0000	-0.1252	-2.352	169.9
RohmAb36	1.238	-0.002305	-0.05924	0.0000	0.0000	0.0000	-0.1251	-2.359	169.9
RohmAb37	1.173	-0.000128	-0.05578	0.0000	0.0000	0.0000	-0.289	-2.532	164.9
RohmAb38	1.173	-0.002185	-0.05568	0.0000	0.0000	0.0000	-0.2892	-2.53	164.9
RohmAb39	1.044	0.000284	-0.0489	0.0000	0.0000	0.0000	-0.6152	-2.873	155
RohmAb40	1.044	-0.00243	-0.04879	0.0000	0.0000	0.0000	-0.6153	-2.871	155
RohmAb41	0.9802	0.0001788	-0.04556	0.0000	0.0000	0.0000	-0.777	-3.043	150
RohmAb42	0.9802	0.002149	-0.04546	0.0000	0.0000	0.0000	-0.7771	-3.041	150
RohmAb43	0.917	0.0005533	-0.04233	0.0000	0.0000	0.0000	-0.9387	-3.213	145
RohmAb44	0.9169	-0.002343	-0.04223	0.0000	0.0000	0.0000	-0.9387	-3.212	145
RohmAb45	0.7753	-0.001166	-0.0353	0.0000	0.0000	0.0000	-1.31	-3.61	133.3
RohmAb46	0.7752	-0.002611	-0.0352	0.0000	0.0000	0.0000	-1.31	-3.609	133.3
RohmAb47	0.6977	0.001454	-0.03166	0.0000	0.0000	0.0000	-1.519	-3.838	126.6

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SNB-Cb2	0.6977	-0.002719	-0.03156	0.0000	0.0000	0.0000	-1.519	3.836	126.6
SNB-Dd1	0.5534	0.001909	-0.02551	0.0000	0.0000	0.0000	-1.924	-4.291	113.3
SNB-Dd2	0.5539	-0.008642	-0.02542	0.0000	0.0000	0.0000	-1.924	4.291	113.3
SNB-Dd1	0.4883	0.002334	-0.02307	0.0000	0.0000	0.0000	-1.121	-4.518	106.6
SNB-Dd2	0.4883	-0.002334	-0.02259	0.0000	0.0000	0.0000	-1.121	4.518	106.6
SNB-Ea1	0.3741	0.002113	-0.01837	0.0000	0.0000	0.0000	-0.497	-4.972	93.32
SNB-Ea2	0.3741	-0.002679	-0.0183	0.0000	0.0000	0.0000	-0.497	4.972	93.32
SNB-Eb1	0.3223	0.002404	-0.01586	0.0000	0.0000	0.0000	-1.681	-5.159	86.64
SNB-Eb2	0.3223	-0.002871	-0.01589	0.0000	0.0000	0.0000	-1.681	5.159	86.64
SNB-Fa1	0.2082	0.003861	-0.01096	0.0000	0.0000	0.0000	-0.123	-5.765	69.99
SNB-Fa2	0.2082	-0.001641	-0.01091	0.0000	0.0000	0.0000	-0.123	5.764	69.99
SNB-Ga1	0.1067	0.004563	-0.006366	0.0000	0.0000	0.0000	-3.617	-6.446	49.99
SNB-Ga2	0.1067	-0.004639	-0.006329	0.0000	0.0000	0.0000	-3.617	6.445	49.99
SNB-Ha1	0.0383	0.005245	-0.003169	0.0000	0.0000	0.0000	-0.409	-7.126	30
SNB-Ha2	0.03829	-0.005288	-0.003149	0.0000	0.0000	0.0000	-0.409	7.126	30
SNB-Ia1	0.005566	0.006844	-0.001274	0.0000	0.0000	0.0000	-4.505	-7.806	9.999
SNB-Ia2	0.005563	-0.006849	-0.001268	0.0000	0.0000	0.0000	-4.505	7.806	9.999

Joint Support Reactions for Load Case "W1 U deg":															
Joint Label	X (kips)	Y (kips)	Z (kips)	Comp. Force Usage %	Uplift Result. Force Usage %	Moment X (ft-k)	X-M. Moment (ft-k)	Y-M. Moment (ft-k)	Z-M. Moment (ft-k)	Max. Usage %					
RohuP	-11.20	0.0	-0.31	0.0	254.30	0.0	0.0	254.55	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0
SWB-J	-19.46	0.0	-0.00	0.0	963.24	0.0	0.0	363.76	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0
RohuJ	-8.75	0.0	-10.22	0.0	-93.54	0.0	0.0	0.0	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0
RohuJ2	-8.21	0.0	-10.53	0.0	-93.50	0.0	0.0	94.74	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0
SWB-J	-18.01	0.0	-20.68	0.0	-153.05	0.0	0.0	155.49	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0
SWB-J2	-17.99	0.0	20.68	0.0	-153.32	0.0	0.0	155.75	0.0	-0.00	0.0	-0.0	0.0	0.0	0.0

Rohn11	0.7346	0.0000	-1.8902	-0.7346	0.0000	1.8902	0.0212	0.0026	-0.0020
Rohn12	0.7346	0.0000	-1.8902	-0.7346	-0.0000	1.8902	0.0202	-0.0032	-0.0020
Rohn13	0.3769	0.0000	-0.9815	8.3757	10.2184	94.5163	0.0000	0.0000	0.0000
Rohn14	0.3769	0.0000	-0.9815	7.8288	-10.5344	94.7796	0.0000	0.0000	0.0000
Rohn15	0.2180	0.0000	-0.2692	-0.2180	-0.0000	0.2692	1.3685	-0.0008	-0.0666
Rohn16	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.3684	-0.0024	-0.0665
Rohn17	0.4882	0.0000	-0.5646	-0.4882	-0.0000	0.5646	1.1083	-0.0001	-0.0523
Rohn18	0.4882	0.0000	-0.5646	-0.4882	0.0000	0.5646	1.1083	-0.0022	-0.0522
Rohn19	0.5848	0.0000	-0.6874	-0.5848	-0.0000	0.6874	0.8558	0.0005	-0.0392
Rohn20	0.5848	0.0000	-0.6874	-0.5848	0.0000	0.6874	0.8557	-0.0022	-0.0391
Rohn21	0.6321	0.0000	-0.8173	-0.6321	-0.0000	0.8173	0.6248	-0.0011	-0.0284
Rohn22	0.6321	0.0000	-0.8173	-0.6321	0.0000	0.8173	0.6247	-0.0022	-0.0283
Rohn23	0.6439	0.0000	-0.9805	-0.6439	-0.0000	0.9805	0.4296	-0.0023	-0.0210
Rohn24	0.6439	0.0000	-0.9805	-0.6439	0.0000	0.9805	0.4296	-0.0023	-0.0210
Rohn25	0.7291	0.0000	-1.3252	-0.7291	-0.0000	1.3252	0.2754	-0.0019	-0.0138
Rohn26	0.7291	0.0000	-1.3252	-0.7291	0.0000	1.3252	0.2753	-0.0023	-0.0137
Rohn27	0.7682	0.0000	-1.6362	-0.7682	-0.0000	1.6362	0.1562	-0.0023	-0.0087
Rohn28	0.7682	0.0000	-1.6362	-0.7682	0.0000	1.6362	0.1561	-0.0025	-0.0086
Rohn29	0.7432	0.0000	-1.7748	-0.7432	-0.0000	1.7748	0.0712	-0.0026	-0.0045
Rohn30	0.7432	0.0000	-1.7748	-0.7432	0.0000	1.7748	0.0712	-0.0026	-0.0045
Rohn31	0.7346	0.0000	-1.8902	-0.7346	-0.0000	1.8902	0.0199	-0.0025	-0.0022
Rohn32	0.7346	0.0000	-1.8902	-0.7346	0.0000	1.8902	0.0199	-0.0025	-0.0022
Rohn33	0.3769	0.0000	-0.9815	17.6307	20.6823	154.0299	0.0000	0.0000	0.0000
Rohn34	0.3769	0.0000	-0.9815	17.6324	-20.6860	154.3009	0.0000	0.0000	0.0000
Rohn35	0.9602	0.0000	-0.4692	-0.9602	0.0000	0.2919	1.3011	-0.0064	-0.1434
Rohn36	0.9602	0.0000	-0.4692	-0.9602	0.0000	0.2692	1.1701	0.0063	-0.1432
Rohn37	0.2702	0.0000	-0.2692	-0.2702	0.0000	0.2954	1.0409	0.0057	-0.1413
Rohn38	0.2702	0.0000	-0.2692	-0.2702	0.0000	1.2704	0.9767	0.0054	-0.1403
Rohn39	0.9289	0.0000	-1.2704	-0.9289	0.0000	0.2954	0.9140	0.0050	-0.1388
Rohn40	0.9289	0.0000	-1.2704	-0.9289	0.0000	1.1720	0.7726	0.0046	-0.1341
Rohn41	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.6951	0.0043	-0.1307
Rohn42	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.4253	0.5515	0.0037	-0.1214
Rohn43	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.4253	0.4862	0.0034	-0.1155
Rohn44	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.5552	0.3707	0.0029	-0.1034
Rohn45	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.5552	0.3191	0.0027	-0.0974
Rohn46	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.7700	0.2083	0.0021	-0.0815
Rohn47	0.4027	0.0000	-0.7700	-0.4027	0.0000	0.8661	0.1061	0.0015	-0.0607
Rohn48	0.3856	0.0000	-0.8661	-0.3856	0.0000	0.8681	0.0373	0.0009	-0.0374
Rohn49	0.3577	0.0000	-0.9087	-0.3577	0.0000	0.9815	0.0006	0.0003	-0.0127
Rohn50	0.3769	0.0000	-0.9815	-0.3769	0.0000	0.2692	1.3021	-0.0015	-0.1125
Rohn51	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.2367	-0.0012	-0.1124
Rohn52	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2954	1.0419	-0.0010	-0.1117
Rohn53	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9777	-0.0009	-0.1111
Rohn54	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9150	-0.0008	-0.1104
Rohn55	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.3920	0.7735	-0.0007	-0.1076
Rohn56	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.4253	0.5524	-0.0004	-0.1053
Rohn57	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.4253	0.4871	-0.0003	-0.0987
Rohn58	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.5552	0.3716	-0.0002	-0.0853
Rohn59	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.5552	0.3199	-0.0002	-0.0812
Rohn60	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.7700	0.2091	-0.0001	-0.0691
Rohn61	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.8661	0.1069	-0.0000	-0.0522
Rohn62	0.4027	0.0000	-0.7700	-0.4027	0.0000	0.9087	0.0381	0.0000	-0.0328
Rohn63	0.3856	0.0000	-0.8661	-0.3856	0.0000	0.9815	0.0014	0.0000	-0.0115
Rohn64	0.3769	0.0000	-0.9815	-0.3769	0.0000	0.5092	1.3120	-0.0042	-0.0559
Rohn65	0.3769	0.0000	-0.9815	-0.3769	0.0000	0.2919	1.2975	-0.0070	-0.0555
Rohn66	0.2921	0.0000	-0.5092	-0.2921	0.0000	0.3443	1.2455	-0.0037	-0.0523
Rohn67	0.2921	0.0000	-0.5092	-0.2921	0.0000	0.2692	1.1218	-0.0070	-0.0520
Rohn68	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.3592	1.1805	-0.0035	-0.0489
Rohn69	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.1667	-0.0068	-0.0485
Rohn70	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2954	1.0496	-0.0022	-0.0422
Rohn71	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	1.0378	-0.0067	-0.0418
Rohn72	0.2702	0.0000	-0.2954	-0.2702	0.0000	1.2504	0.9872	-0.0029	-0.0390
Rohn73	1.8835	0.0000	-1.2504	-1.8835	0.0000	0.4204	0.9215	-0.0011	-0.0339
Rohn74	1.8835	0.0000	-1.2504	-1.8835	0.0000	0.2954	0.9113	-0.0065	-0.0356
Rohn75	0.4120	0.0000	-0.4204	-0.4120	0.0000	1.1620	0.7807	-0.0010	-0.0294
Rohn76	0.2921	0.0000	-0.2954	-0.2921	0.0000	1.1720	0.7715	-0.0057	-0.0291
Rohn77	1.3265	0.0000	-1.1720	-1.3265	0.0000	0.3920	0.7024	-0.0003	-0.0260
Rohn78	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.6940	-0.0037	-0.0258
Rohn79	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.6703	0.5583	0.0003	-0.0205
Rohn80	0.4463	0.0000	-0.6703	-0.4463	0.0000	0.4253	0.5511	-0.0054	-0.0203
Rohn81	0.3174	0.0000	-0.4253	-0.3174	0.0000				

RohnDb1	0.3791	0.0000	-0.5103	-0.3791	0.0000	0.5103	0.4924	0.0009	-0.0183
RohnDb2	0.3174	0.0000	-0.4253	-0.3174	-0.0000	0.4253	0.4858	-0.0055	-0.0181
RohnBa1	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.5552	0.3770	0.0013	-0.0145
RohnBa2	0.3365	0.0000	-0.5552	-0.3265	-0.0000	0.5552	0.3715	-0.0051	-0.0143
RohnEb1	0.4489	0.0000	-0.8802	-0.4489	0.0000	0.8802	0.3251	0.0017	-0.0125
RohnEb2	0.3265	0.0000	-0.5552	-0.3265	-0.0000	0.5552	0.3201	-0.0051	-0.0125
RohnFa1	0.4027	0.0000	-0.7700	-0.4027	-0.0000	0.7700	0.2108	0.0038	-0.0086
RohnFa2	0.3856	0.0000	-0.6661	-0.3856	0.0000	0.6661	0.1085	0.0044	-0.0050
RohnGa2	0.3577	0.0000	-0.9087	-0.3577	0.0000	0.9087	0.0381	0.0054	-0.0026
RohnHa1	0.3577	0.0000	-0.9087	-0.3577	0.0000	0.9087	0.0381	0.0054	-0.0026
RohnHa2	0.3769	0.0000	-0.9815	-0.3769	0.0000	0.9815	0.0067	0.0071	-0.0012
RohnIa1	0.3769	0.0000	-0.9815	-0.3769	-0.0000	0.9815	0.0062	-0.0075	-0.0012
RohnIa2	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.3041	-0.0006	-0.0630
RohBa1	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.3039	-0.0024	-0.0630
RohBa2	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.2383	-0.0009	-0.0593
RohBb1	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.2384	-0.0023	-0.0592
RohBb2	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.1730	-0.0001	-0.0558
RohAc1	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.1728	-0.0024	-0.0557
RohAc2	0.2180	0.0000	-0.2692	-0.2180	0.0000	0.2692	1.0437	0.0003	-0.0489
RohBa1	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	1.0436	-0.0024	-0.0488
RohBa2	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9802	0.0002	-0.0456
RohBb1	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9802	0.0021	-0.0455
RohBb2	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9170	0.0066	-0.0423
RohBc1	0.2702	0.0000	-0.2954	-0.2702	0.0000	0.2954	0.9169	-0.0023	-0.0422
RohBc2	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.7753	0.0012	-0.0353
RohCa1	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.7752	-0.0026	-0.0352
RohCa2	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.6977	0.0015	-0.0317
RohCb1	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.6977	-0.0027	-0.0316
RohCb2	0.3146	0.0000	-0.3920	-0.3146	0.0000	0.3920	0.5540	0.0019	-0.0255
RohDa1	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.4253	0.5539	-0.0028	-0.0254
RohDa2	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.4253	0.4893	0.0023	-0.0231
RohBb1	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.4253	0.4893	0.0031	-0.0230
RohBb2	0.3174	0.0000	-0.4253	-0.3174	0.0000	0.4253	0.3741	-0.0023	-0.0184
RohBa1	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.5552	0.3741	-0.0027	-0.0183
RohBa2	0.3265	0.0000	-0.5552	-0.3265	-0.0000	0.5552	0.3223	0.0024	-0.0150
RohEb1	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.5552	0.3223	-0.0029	-0.0150
RohEb2	0.3265	0.0000	-0.5552	-0.3265	0.0000	0.5552	0.2082	0.0044	-0.0110
RohFa1	0.4027	0.0000	-0.7700	-0.4027	0.0000	0.7700	0.2082	-0.0046	-0.0109
RohFa2	0.3856	0.0000	-0.6661	-0.3856	0.0000	0.6661	0.1067	0.0046	-0.0064
RohGa1	0.3856	0.0000	-0.6661	-0.3856	0.0000	0.6661	0.1067	-0.0047	-0.0063
RohGa2	0.3577	0.0000	-0.9087	-0.3577	-0.0000	0.9087	0.0383	0.0052	-0.0032
RohHa1	0.3577	0.0000	-0.9087	-0.3577	0.0000	0.9087	0.0383	-0.0053	-0.0031
RohHa2	0.3769	0.0000	-0.9815	-0.3769	-0.0000	0.9815	0.0057	0.0068	-0.0013
RohIa1	0.3769	0.0000	-0.9815	-0.3769	-0.0000	0.9815	0.0057	-0.0068	-0.0013
RohIa2	0.3769	0.0000	-0.9815	-0.3769	-0.0000	0.9815	0.0057	-0.0068	-0.0013

*** Analysis Results for Load Case No. 4 "W+I 60 deg" - Number of Iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "W+I 60 deg":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pose (ft)	Y-Pose (ft)	Z-Pose (ft)
RohnA-P	0.6657	1.159	-0.1144	0.0000	0.0000	0.0000	4.999	1.159	179.9
RohnB-P	0.5377	0.9378	-0.1089	0.0000	0.0000	0.0000	5.659	0.9378	159.9
RohnC-P	0.414	0.7241	-0.1012	0.0000	0.0000	0.0000	6.323	0.7241	139.9
RohnD-P	0.301	0.527	-0.09109	0.0000	0.0000	0.0000	6.996	0.527	119.9
RohnE-P	0.2055	0.3619	-0.07721	0.0000	0.0000	0.0000	7.687	0.3619	99.92
RohnF-P	0.13	0.2316	-0.06361	0.0000	0.0000	0.0000	8.398	0.2316	79.94
RohnG-P	0.07158	0.1314	-0.04903	0.0000	0.0000	0.0000	9.127	0.1314	59.95
RohnH-P	0.02998	0.05934	-0.03379	0.0000	0.0000	0.0000	9.871	0.05934	39.97
RohnI-P	0.005266	0.01635	-0.0167	0.0000	0.0000	0.0000	10.64	0.01635	19.98
RohnJ-P	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
RohnA-B	0.6665	1.156	-0.09638	0.0000	0.0000	0.0000	3	1.156	179.9
RohnB-B	0.5386	0.9348	-0.09142	0.0000	0.0000	0.0000	-3.66	0.9348	159.9
RohnC-B	0.4149	0.7211	-0.08524	0.0000	0.0000	0.0000	4.323	0.7211	139.9
RohnD-B	0.3018	0.5258	-0.07704	0.0000	0.0000	0.0000	4.997	0.5258	119.9
RohnE-B	0.2063	0.3609	-0.06562	0.0000	0.0000	0.0000	5.687	0.3609	99.93
RohnF-B	0.1308	0.2307	-0.0552	0.0000	0.0000	0.0000	6.399	0.2307	79.94
RohnG-B	0.07237	0.1301	-0.04283	0.0000	0.0000	0.0000	7.127	0.1301	59.96
RohnH-B	0.03076	0.05856	-0.02981	0.0000	0.0000	0.0000	7.872	0.05856	39.97
RohnI-B	0.006047	0.01549	-0.01495	0.0000	0.0000	0.0000	8.634	0.01549	19.99
RohnJ-B	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.6712	1.156	-0.03242	0.0000	0.0000	0.0000	-1.495	-2.596	180
RohnA2	0.6657	1.153	-0.1143	0.0000	0.0000	0.0000	-1.501	4.905	179.9
RohnB1	0.5435	0.9355	-0.01432	0.0000	0.0000	0.0000	-2.017	-3.499	160
RohnB2	0.5383	0.9316	-0.1088	0.0000	0.0000	0.0000	-2.022	5.366	159.9
RohnC1	0.4198	0.7224	0.0002523	0.0000	0.0000	0.0000	-2.535	-4.395	140
RohnC2	0.4161	0.7183	-0.1012	0.0000	0.0000	0.0000	-2.538	5.836	139.9
RohnD1	0.3067	0.5276	-0.01001	0.0000	0.0000	0.0000	-3.041	-5.27	120
RohnD2	0.3029	0.5224	-0.09101	0.0000	0.0000	0.0000	-3.045	6.32	119.9
RohnE1	0.2113	0.3631	-0.03276	0.0000	0.0000	0.0000	-3.529	-6.116	100
RohnE2	0.2083	0.3575	-0.07718	0.0000	0.0000	0.0000	-3.532	6.836	99.92
RohnF1	0.1359	0.2332	-0.0144	0.0000	0.0000	0.0000	-3.998	-6.827	80.01
RohnF2	0.1336	0.2272	-0.06356	0.0000	0.0000	0.0000	-4	7.288	79.94
RohnG1	0.0765	0.1329	-0.01351	0.0000	0.0000	0.0000	-4.45	-7.709	60.01
RohnG2	0.0766	0.1269	-0.04901	0.0000	0.0000	0.0000	-4.451	7.969	59.95
RohnH1	0.03615	0.06157	-0.01095	0.0000	0.0000	0.0000	-4.884	-8.461	40.01
RohnH2	0.03651	0.05511	-0.03378	0.0000	0.0000	0.0000	-4.885	8.578	39.97
RohnI1	0.01099	0.01852	-0.00567	0.0000	0.0000	0.0000	-5.304	-9.187	20.01
RohnI2	0.01107	0.01247	-0.01669	0.0000	0.0000	0.0000	-5.304	9.218	19.98
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
RohnA1	0.668	1.157	-0.0517	0.0000	0.0000	0.0000	-0.4985	-0.8636	179.9
RohnA2	0.6679	1.155	-0.09637	0.0000	0.0000	0.0000	-0.4986	3.175	179.9
RohnB1	0.5406	0.9362	-0.03305	0.0000	0.0000	0.0000	-1.02	-1.767	160
RohnB2	0.5404	0.9338	-0.09141	0.0000	0.0000	0.0000	-1.02	3.637	159.9
RohnC1	0.4174	0.7228	-0.01672	0.0000	0.0000	0.0000	-1.537	-2.662	140
RohnC2	0.4171	0.7198	-0.08524	0.0000	0.0000	0.0000	-1.537	4.104	139.9
RohnD1	0.3048	0.5278	-0.004655	0.0000	0.0000	0.0000	-2.043	-3.538	120
RohnD2	0.3045	0.5242	-0.07703	0.0000	0.0000	0.0000	-2.043	4.59	119.9
RohnE1	0.2097	0.3631	-0.0005231	0.0000	0.0000	0.0000	-2.531	-4.384	100
RohnE2	0.2094	0.3591	-0.06562	0.0000	0.0000	0.0000	-2.531	5.106	99.93
RohnF1	0.1346	0.233	-0.006188	0.0000	0.0000	0.0000	-2.999	-5.195	80.01
RohnF2	0.1344	0.2286	-0.0552	0.0000	0.0000	0.0000	-3	5.657	79.94
RohnG1	0.07656	0.1326	-0.007764	0.0000	0.0000	0.0000	-3.451	-5.977	60.01
RohnG2	0.07651	0.1277	-0.04283	0.0000	0.0000	0.0000	-3.451	6.238	59.96
RohnH1	0.03531	0.06115	-0.007618	0.0000	0.0000	0.0000	-3.885	-6.729	40.01
RohnH2	0.03533	0.05591	-0.02981	0.0000	0.0000	0.0000	-3.885	6.846	39.97
RohnI1	0.01038	0.01797	-0.003948	0.0000	0.0000	0.0000	-4.304	-7.454	20
RohnI2	0.01038	0.01298	-0.01495	0.0000	0.0000	0.0000	-4.304	7.485	19.99
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0
RohnA5	0.6336	1.103	-0.1132	0.0000	0.0000	0.0000	5.164	1.103	174.9
RohnA5	0.6015	1.049	-0.1119	0.0000	0.0000	0.0000	5.329	1.049	159.9
RohnA5	0.5695	0.9922	-0.1105	0.0000	0.0000	0.0000	5.494	0.9922	144.9
RohnA5	0.5064	0.8822	-0.1072	0.0000	0.0000	0.0000	5.824	0.8822	134.9
RohnB5	0.4749	0.8303	-0.1055	0.0000	0.0000	0.0000	5.99	0.8303	119.9

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RohmBcs	0.4444	0.7739	-0.1034	0.0000	0.0000	0.0000	6.156	0.7739	144.9
RohmCas	0.3752	0.6553	-0.09821	0.0000	0.0000	0.0000	6.546	0.6553	133.2
RohmCbs	0.3374	0.5892	-0.09478	0.0000	0.0000	0.0000	6.771	0.5892	126.6
RohmDbs	0.2672	0.4676	-0.08681	0.0000	0.0000	0.0000	7.224	0.4676	113.3
RohmEbs	0.2353	0.4119	-0.08217	0.0000	0.0000	0.0000	7.455	0.4119	106.6
RohmFbs	0.1786	0.3149	-0.07292	0.0000	0.0000	0.0000	7.922	0.3149	93.27
RohmGbs	0.1537	0.2709	-0.06837	0.0000	0.0000	0.0000	8.16	0.2709	86.59
RohmHbs	0.05921	0.174	-0.05653	0.0000	0.0000	0.0000	8.761	0.174	69.94
RohmIbs	0.04978	0.08791	-0.04158	0.0000	0.0000	0.0000	9.498	0.08791	49.96
RohmJbs	0.01609	0.02988	-0.02545	0.0000	0.0000	0.0000	10.25	0.02988	29.97
RohmKbs	-0.002877	0.001816	-0.008773	0.0000	0.0000	0.0000	11.02	0.001816	9.991
RohmLbs	0.6344	1.1	-0.09526	0.0000	0.0000	0.0000	3.164	1.1	174.9
RohmMbs	0.6024	1.045	-0.09408	0.0000	0.0000	0.0000	3.329	1.045	169.9
RohmNbs	0.5704	0.9883	-0.09279	0.0000	0.0000	0.0000	3.494	0.9883	164.9
RohmObs	0.5072	0.8759	-0.09002	0.0000	0.0000	0.0000	3.825	0.8759	154.9
RohmPbs	0.4758	0.8265	-0.08854	0.0000	0.0000	0.0000	3.999	0.8265	149.9
RohmQbs	0.4432	0.7738	-0.08693	0.0000	0.0000	0.0000	4.156	0.7738	144.9
RohmRbs	0.3761	0.6528	-0.08277	0.0000	0.0000	0.0000	4.546	0.6528	133.3
RohmSbs	0.3382	0.5872	-0.08001	0.0000	0.0000	0.0000	4.771	0.5872	126.6
RohmTbs	0.268	0.4656	-0.07358	0.0000	0.0000	0.0000	5.225	0.4656	113.3
RohmUbs	0.2361	0.41	-0.06973	0.0000	0.0000	0.0000	5.455	0.41	106.6
RohmVbs	0.1797	0.3139	-0.06237	0.0000	0.0000	0.0000	5.923	0.3139	93.28
RohmWbs	0.1545	0.27	-0.05886	0.0000	0.0000	0.0000	6.16	0.27	86.6
RohmXbs	0.1005	0.1728	-0.04919	0.0000	0.0000	0.0000	6.762	0.1728	69.95
RohmYbs	0.05057	0.08731	-0.03649	0.0000	0.0000	0.0000	7.499	0.08731	49.96
RohmZbs	0.01688	0.02945	-0.02261	0.0000	0.0000	0.0000	8.251	0.02945	29.98
Rohm1bs	-0.002095	0.001364	-0.008019	0.0000	0.0000	0.0000	9.019	0.001364	9.992
RohmA1	0.6396	1.101	-0.02762	0.0000	0.0000	0.0000	-1.625	-2.922	175
RohmB1	0.6331	1.097	-0.1131	0.0000	0.0000	0.0000	-1.652	-3.02	174.9
RohmC1	0.6072	1.045	-0.02294	0.0000	0.0000	0.0000	-1.756	-3.049	170
RohmD1	0.6016	1.042	-0.1118	0.0000	0.0000	0.0000	-1.762	-3.135	169.9
RohmE1	0.5756	0.9903	-0.01852	0.0000	0.0000	0.0000	-1.866	-3.274	165
RohmF1	0.5692	0.9862	-0.1104	0.0000	0.0000	0.0000	-1.893	-3.25	164.9
RohmG1	0.5121	0.8813	-0.1026	0.0000	0.0000	0.0000	-2.147	-3.724	155
RohmH1	0.5061	0.8768	-0.1072	0.0000	0.0000	0.0000	-2.153	-3.482	154.9
RohmI1	0.4807	0.8274	-0.06396	0.0000	0.0000	0.0000	-2.277	-3.949	150
RohmJ1	0.4772	0.8228	-0.1054	0.0000	0.0000	0.0000	-2.28	-5.6	149.9
RohmK1	0.43	0.7745	-0.002853	0.0000	0.0000	0.0000	-2.406	-4.172	145
RohmL1	0.444	0.7694	-0.1034	0.0000	0.0000	0.0000	-2.412	-5.716	144.9
RohmM1	0.3808	0.6553	-0.004191	0.0000	0.0000	0.0000	-2.705	-4.689	133.3
RohmN1	0.3763	0.6504	-0.09816	0.0000	0.0000	0.0000	-2.709	-5.994	133.2
RohmO1	0.3429	0.59	-0.007462	0.0000	0.0000	0.0000	-2.874	-4.981	126.7
RohmP1	0.3382	0.5848	-0.09474	0.0000	0.0000	0.0000	-2.878	-6.156	126.6
RohmQ1	0.2727	0.469	-0.01173	0.0000	0.0000	0.0000	-3.206	-5.556	113.3
RohmR1	0.2685	0.4635	-0.08678	0.0000	0.0000	0.0000	-3.21	-6.488	113.3
RohmS1	0.2408	0.414	-0.01262	0.0000	0.0000	0.0000	-3.369	-5.838	106.7
RohmT1	0.2364	0.4082	-0.08214	0.0000	0.0000	0.0000	-3.373	-6.66	106.6
RohmU1	0.1845	0.317	-0.01379	0.0000	0.0000	0.0000	-3.687	-6.389	93.35
RohmV1	0.181	0.311	-0.07259	0.0000	0.0000	0.0000	-3.691	-7.017	93.27
RohmW1	0.1594	0.2736	-0.01434	0.0000	0.0000	0.0000	-3.844	-6.66	86.67
RohmX1	0.1558	0.2673	-0.06834	0.0000	0.0000	0.0000	-3.847	-7.201	86.59
RohmY1	0.1052	0.1802	-0.01447	0.0000	0.0000	0.0000	-4.226	-7.321	70.01
RohmZ1	0.09917	0.1724	-0.05651	0.0000	0.0000	0.0000	-4.232	-7.673	69.94
Rohm1A1	0.05547	0.09474	-0.01262	0.0000	0.0000	0.0000	-4.659	-8.087	50.01
Rohm2A1	0.0501	0.0864	-0.04157	0.0000	0.0000	0.0000	-4.674	-8.269	49.96
Rohm3A1	0.02228	0.03781	-0.00834	0.0000	0.0000	0.0000	-5.095	-8.826	30.01
Rohm4A1	0.01716	0.02849	-0.02545	0.0000	0.0000	0.0000	-5.101	-8.893	29.97
Rohm5A1	0.006486	0.01087	-0.002471	0.0000	0.0000	0.0000	-5.506	-9.537	10
Rohm6A1	0.002782	-0.001715	-0.009771	0.0000	0.0000	0.0000	-5.51	-9.546	9.981
Rohm7A1	0.6362	1.102	-0.04687	0.0000	0.0000	0.0000	-0.6288	-1.089	175
Rohm8A1	0.6357	1.099	-0.09525	0.0000	0.0000	0.0000	-0.6293	-3.291	174.9
Rohm9A1	0.604	1.046	-0.04207	0.0000	0.0000	0.0000	-0.7594	-1.316	170
Rohm0A1	0.6041	1.044	-0.09407	0.0000	0.0000	0.0000	-0.7594	-3.406	169.9
Rohm1A2	0.5724	0.9911	-0.01746	0.0000	0.0000	0.0000	-0.8896	-1.541	165
Rohm2A2	0.5716	0.9886	-0.09278	0.0000	0.0000	0.0000	-0.8894	-3.521	164.9
Rohm3A2	0.5093	0.882	-0.02867	0.0000	0.0000	0.0000	-1.15	-1.991	155
Rohm4A2	0.5085	0.8792	-0.09001	0.0000	0.0000	0.0000	-1.15	-3.752	154.9
Rohm5A2	0.478	0.8279	-0.02445	0.0000	0.0000	0.0000	-1.279	-2.216	150
Rohm6A2	0.478	0.8252	-0.08854	0.0000	0.0000	0.0000	-1.279	-3.869	149.9
Rohm7A2	0.4475	0.7749	-0.02048	0.0000	0.0000	0.0000	-1.408	-2.439	145
Rohm8A2	0.4467	0.7719	-0.08693	0.0000	0.0000	0.0000	-1.409	-3.986	144.9
Rohm9A2	0.3786	0.6356	-0.01214	0.0000	0.0000	0.0000	-1.706	-2.956	133.3
Rohm0A2	0.3773	0.632	-0.08217	0.0000	0.0000	0.0000	-1.706	-4.263	133.3
Rohm1A3	0.3408	0.5903	-0.008121	0.0000	0.0000	0.0000	-1.876	-3.249	126.7

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Rohn11	0.3434	0.5947	-1.8902	-0.3434	-0.5947	1.8902	0.0110	0.0185	0.0051
Rohn12	0.3434	0.5947	-1.8902	-0.3434	-0.5947	1.8902	0.0111	0.0125	-0.0167
Rohn13	0.3434	0.3038	-0.9815	10.2502	17.4819	203.7507	0.0000	0.0000	0.0000
Rohn14	0.1754	0.3038	-0.9815	0.2144	3.0266	-133.8757	0.0000	0.0000	0.0000
Rohn15	0.1754	0.1045	-0.2592	-0.1045	-0.1810	0.2692	0.6680	1.1568	-0.0517
Rohn16	0.1045	0.1810	-0.2592	-0.1045	-0.1810	0.2692	0.6679	1.1550	-0.0964
Rohn17	0.2346	0.4067	-0.5646	-0.2346	-0.4067	0.5646	0.5406	0.9362	-0.0330
Rohn18	0.2346	0.4067	-0.5646	-0.2346	-0.4067	0.5646	0.5404	0.9358	-0.0914
Rohn19	0.2811	0.4868	-0.6874	-0.2811	-0.4868	0.6874	0.4171	0.7228	-0.0167
Rohn20	0.2811	0.4868	-0.6874	-0.2811	-0.4868	0.6874	0.4171	0.7198	-0.0852
Rohn21	0.3026	0.5241	-0.8173	-0.3026	-0.5241	0.8173	0.3048	0.5278	-0.0047
Rohn22	0.3026	0.5241	-0.8173	-0.3026	-0.5241	0.8173	0.3045	0.5242	-0.0770
Rohn23	0.3065	0.5309	-0.9805	-0.3065	-0.5310	0.9805	0.2097	0.3631	0.0005
Rohn24	0.3065	0.5309	-0.9805	-0.3065	-0.5309	0.9805	0.2094	0.3591	-0.0656
Rohn25	0.3452	0.5979	-1.3252	-0.3452	-0.5979	1.3252	0.1346	0.2330	0.0052
Rohn26	0.3452	0.5979	-1.3252	-0.3452	-0.5979	1.3252	0.1346	0.2286	-0.0552
Rohn27	0.3726	0.6454	-1.6362	-0.3726	-0.6454	1.6362	0.0765	0.1277	0.0078
Rohn28	0.3726	0.6454	-1.6362	-0.3726	-0.6454	1.6362	0.0765	0.1277	-0.0428
Rohn29	0.3501	0.6065	-1.7748	-0.3501	-0.6065	1.7748	0.0353	0.0611	0.0076
Rohn30	0.3501	0.6065	-1.7748	-0.3501	-0.6065	1.7748	0.0353	0.0559	-0.0298
Rohn31	0.3434	0.5947	-1.8902	-0.3434	-0.5947	1.8902	0.0104	0.0180	0.0039
Rohn32	0.3434	0.5947	-1.8902	-0.3434	-0.5947	1.8902	0.0104	0.0130	-0.0149
Rohn33	0.1754	0.3038	-0.9815	20.3517	35.2436	315.5175	0.0000	0.0000	0.0000
Rohn34	0.1754	0.3038	-0.9815	2.6335	5.1866	-184.7073	0.0000	0.0000	0.0000
Rohn35	0.1415	0.2451	-0.2919	-0.1415	-0.2451	0.2919	0.6336	1.1033	-0.1132
Rohn36	0.1415	0.2451	-0.2919	-0.1415	-0.2451	0.2919	0.6336	1.0489	-0.1119
Rohn37	0.1436	0.8237	-0.4652	-0.1436	-0.8237	0.4652	0.6015	1.0489	-0.1119
Rohn38	0.1436	0.8237	-0.4652	-0.1436	-0.8237	0.4652	0.6015	0.9922	-0.1105
Rohn39	0.1810	0.2257	-0.2954	-0.1810	-0.2257	0.2954	0.5064	0.8822	-0.1072
Rohn40	0.1810	0.2257	-0.2954	-0.1810	-0.2257	0.2954	0.4749	0.8303	-0.1035
Rohn41	0.1937	1.6622	-1.2704	-0.1937	-1.6622	1.2704	0.4444	0.7739	-0.1034
Rohn42	0.1937	1.6622	-1.2704	-0.1937	-1.6622	1.2704	0.4444	0.7739	-0.1034
Rohn43	0.1384	1.1384	-1.1720	-0.1384	-1.1384	1.1720	0.3752	0.6553	-0.0982
Rohn44	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3374	0.5892	-0.0948
Rohn45	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3374	0.5892	-0.0948
Rohn46	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2672	0.4676	-0.0868
Rohn47	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2353	0.4119	-0.0822
Rohn48	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1789	0.3149	-0.0729
Rohn49	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1537	0.2709	-0.0684
Rohn50	0.1905	0.3295	-0.7700	-0.1905	-0.3295	0.7700	0.0987	0.1760	-0.0565
Rohn51	0.1905	0.3295	-0.7700	-0.1905	-0.3295	0.7700	0.0987	0.1760	-0.0565
Rohn52	0.1822	0.3135	-0.8661	-0.1822	-0.3135	0.8661	0.0459	0.0879	-0.0416
Rohn53	0.1822	0.3135	-0.8661	-0.1822	-0.3135	0.8661	0.0459	0.0879	-0.0416
Rohn54	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0161	0.0289	-0.0235
Rohn55	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	-0.0029	0.1008	-0.0088
Rohn56	0.1445	0.1810	-0.2692	-0.1445	-0.1810	0.2692	0.6344	1.1002	-0.0953
Rohn57	0.1445	0.1810	-0.2692	-0.1445	-0.1810	0.2692	0.6344	1.1002	-0.0953
Rohn58	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5704	0.9893	-0.0928
Rohn59	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5704	0.9893	-0.0928
Rohn60	0.1810	0.2257	-0.2954	-0.1810	-0.2257	0.2954	0.5072	0.8759	-0.0900
Rohn61	0.1810	0.2257	-0.2954	-0.1810	-0.2257	0.2954	0.4758	0.8265	-0.0885
Rohn62	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4452	0.7728	-0.0869
Rohn63	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.3761	0.6528	-0.0828
Rohn64	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3382	0.5872	-0.0800
Rohn65	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3382	0.5872	-0.0800
Rohn66	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2680	0.4656	-0.0736
Rohn67	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2361	0.4100	-0.0697
Rohn68	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1797	0.3139	-0.0624
Rohn69	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1545	0.2700	-0.0589
Rohn70	0.1905	0.3295	-0.7700	-0.1905	-0.3295	0.7700	0.1005	0.1728	-0.0492
Rohn71	0.1905	0.3295	-0.7700	-0.1905	-0.3295	0.7700	0.1005	0.1728	-0.0492
Rohn72	0.1822	0.3135	-0.8661	-0.1822	-0.3135	0.8661	0.0506	0.0873	-0.0365
Rohn73	0.1822	0.3135	-0.8661	-0.1822	-0.3135	0.8661	0.0506	0.0873	-0.0365
Rohn74	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0169	0.0295	-0.0226
Rohn75	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	-0.0021	0.0014	-0.0080
Rohn76	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	-0.0021	0.0014	-0.0080
Rohn77	0.6038	1.2017	-0.5092	-0.6038	-1.2017	0.5092	0.6396	1.1007	-0.0276
Rohn78	0.1415	0.2451	-0.2919	-0.1415	-0.2451	0.2919	0.6331	1.0970	-0.1131
Rohn79	0.1415	0.2451	-0.2919	-0.1415	-0.2451	0.2919	0.6331	1.0970	-0.1131
Rohn80	0.1694	0.2935	-0.3442	-0.1694	-0.2935	0.3442	0.6072	1.0452	-0.0225
Rohn81	0.1694	0.2935	-0.3442	-0.1694	-0.2935	0.3442	0.6072	1.0452	-0.0225
Rohn82	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.6016	1.0417	-0.1118
Rohn83	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5756	0.9903	-0.0185
Rohn84	0.4798	0.8310	-0.3992	-0.4798	-0.8310	0.3992	0.5161	0.9073	-0.0185
Rohn85	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5692	0.9862	-0.1104
Rohn86	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5121	0.8813	-0.0103
Rohn87	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.5061	0.8768	-0.1072
Rohn88	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4807	0.8274	-0.0064
Rohn89	0.9369	1.6228	-1.2504	-0.9369	-1.6228	1.2504	0.4772	0.8238	-0.1054
Rohn90	0.9369	1.6228	-1.2504	-0.9369	-1.6228	1.2504	0.4772	0.8238	-0.1054
Rohn91	0.3485	0.4204	-0.2012	-0.3485	-0.4204	0.2012	0.4500	0.7745	-0.0029
Rohn92	0.3485	0.4204	-0.2012	-0.3485	-0.4204	0.2012	0.4500	0.7745	-0.0029
Rohn93	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4440	0.7694	-0.1034
Rohn94	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.3808	0.6553	0.0042
Rohn95	0.1375	1.1375	-1.1620	-0.1375	-1.1375	1.1620	0.3763	0.6504	-0.0582
Rohn96	0.1375	1.1375	-1.1620	-0.1375	-1.1375	1.1620	0.3763	0.6504	-0.0582
Rohn97	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3429	0.5900	0.0075
Rohn98	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3429	0.5900	0.0075
Rohn99	0.2163	0.3746	-0.6703	-0.2163	-0.3746	0.6703	0.3182	0.5848	-0.0947
Rohn100	0.2163	0.3746	-0.6703	-0.2163	-0.3746	0.6703	0.2727	0.4690	0.0117
Rohn101	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2685	0.4635	-0.0868

RohnDb1	0.1827	0.3164	-0.5103	-0.1827	-0.3164	0.5103	0.2408	0.4140	0.0126
RohnDb2	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2364	0.4082	-0.0821
RohnBa1	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1845	0.3170	0.0138
RohnBa2	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1810	0.3110	-0.0729
RohnBb1	0.2159	0.3740	-0.6802	-0.2159	-0.3740	0.6802	0.1594	0.2736	0.0143
RohnBb2	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1558	0.2673	-0.0663
RohnBa1	0.1905	0.3289	-0.7700	-0.1905	-0.3289	0.7700	0.1052	0.1802	0.0145
RohnBa2	0.1905	0.3289	-0.7700	-0.1905	-0.3289	0.7700	0.0992	0.1724	-0.0565
RohnGa1	0.1822	0.3155	-0.8661	-0.1822	-0.3155	0.8661	0.0535	0.0947	0.0126
RohnGa2	0.1822	0.3155	-0.8661	-0.1822	-0.3155	0.8661	0.0501	0.0864	-0.0416
RohnHa1	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0223	0.0378	0.0083
RohnHa2	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0172	0.0285	-0.0254
RohnIa1	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	0.0065	0.0110	0.0025
RohnIa2	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	0.0028	-0.0017	0.0088
RohnJa1	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.6362	1.1017	-0.0469
RohnJa2	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.6357	1.0995	-0.0952
RohnBb1	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.6040	1.0460	-0.0421
RohnBb2	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.6041	1.0441	-0.0941
RohnAb1	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5724	0.9911	-0.0375
RohnAb2	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5716	0.9886	-0.0928
RohnAc1	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5093	0.8820	-0.0287
RohnAc2	0.1045	0.1810	-0.2692	-0.1045	-0.1810	0.2692	0.5085	0.8792	-0.0900
RohnBa1	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4780	0.8279	-0.0245
RohnBa2	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4780	0.8292	-0.0885
RohnBb1	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4475	0.7749	-0.0205
RohnBb2	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.4467	0.7719	-0.0869
RohnBc1	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.3786	0.6556	-0.0121
RohnBc2	0.1303	0.2257	-0.2954	-0.1303	-0.2257	0.2954	0.3408	0.5903	-0.0081
RohnCa1	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3108	0.5200	-0.0828
RohnCa2	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3108	0.5200	-0.0828
RohnCb1	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3108	0.5200	-0.0828
RohnCb2	0.1508	0.2611	-0.3920	-0.1508	-0.2611	0.3920	0.3108	0.5200	-0.0828
RohnDa1	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2709	0.4691	-0.0022
RohnDa2	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2693	0.4649	-0.0736
RohnDb1	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2370	0.4141	-0.0005
RohnDb2	0.1518	0.2630	-0.4253	-0.1518	-0.2630	0.4253	0.2370	0.4095	-0.0697
RohnEb1	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1830	0.3169	0.0029
RohnEb2	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1820	0.3125	-0.0624
RohnFa1	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1580	0.2735	-0.0048
RohnFa2	0.1547	0.2680	-0.5552	-0.1547	-0.2680	0.5552	0.1566	0.2687	-0.0589
RohnBa1	0.1905	0.3289	-0.7700	-0.1905	-0.3289	0.7700	0.1039	0.1800	0.0074
RohnBa2	0.1905	0.3289	-0.7700	-0.1905	-0.3289	0.7700	0.0994	0.1794	-0.0492
RohnGa1	0.1822	0.3155	-0.8661	-0.1822	-0.3155	0.8661	0.0545	0.0944	-0.0081
RohnGa2	0.1822	0.3155	-0.8661	-0.1822	-0.3155	0.8661	0.0503	0.0874	-0.0365
RohnHa1	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0216	0.0373	-0.0061
RohnHa2	0.1680	0.2909	-0.9087	-0.1680	-0.2909	0.9087	0.0171	0.0283	-0.0226
RohnIa1	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	0.0060	0.0104	0.0019
RohnIa2	0.1754	0.3038	-0.9815	-0.1754	-0.3038	0.9815	0.0022	-0.0011	-0.0080

*** Analysis Results for Load Case No. 5 "W+I 90 deg" - Number of iterations in SABS 12

Equilibrium Joint Positions and Rotations for Load Case "W+I 90 deg":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohmAP	-0.001775	1.342	-0.08712	0.0000	0.0000	0.0000	4.331	1.342	179.9
RohmBP	-0.002009	1.086	-0.07737	0.0000	0.0000	0.0000	5.119	1.086	159.9
RohmCP	-0.002255	0.838	-0.06741	0.0000	0.0000	0.0000	5.907	0.838	139.9
RohmDP	-0.002515	0.610	-0.05736	0.0000	0.0000	0.0000	6.692	0.610	119.9
RohmEP	-0.002814	0.418	-0.04722	0.0000	0.0000	0.0000	7.478	0.418	99.95
RohmFP	-0.003157	0.267	-0.03762	0.0000	0.0000	0.0000	8.265	0.267	79.96
RohmGP	-0.003501	0.151	-0.02818	0.0000	0.0000	0.0000	9.051	0.151	59.97
RohmHP	-0.003788	0.06824	-0.01888	0.0000	0.0000	0.0000	9.837	0.06824	39.98
RohmJP	-0.003668	0.01858	-0.009445	0.0000	0.0000	0.0000	10.63	0.01858	19.99
RohmAP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
RohmBP	-0.000967	1.343	-0.08155	0.0000	0.0000	0.0000	2.332	1.343	179.9
RohmCP	-0.001221	1.086	-0.07201	0.0000	0.0000	0.0000	3.12	1.086	159.9
RohmDP	-0.001469	0.838	-0.06243	0.0000	0.0000	0.0000	3.907	0.838	139.9
RohmEP	-0.00173	0.612	-0.05294	0.0000	0.0000	0.0000	4.683	0.612	119.9
RohmFP	-0.002031	0.4196	-0.04359	0.0000	0.0000	0.0000	5.479	0.4196	99.96
RohmGP	-0.002375	0.2683	-0.03475	0.0000	0.0000	0.0000	6.266	0.2683	79.97
RohmHP	-0.00272	0.1513	-0.02598	0.0000	0.0000	0.0000	7.052	0.1513	59.97
RohmJP	-0.003007	0.06812	-0.01734	0.0000	0.0000	0.0000	7.838	0.06812	39.98
RohmAP	-0.002888	0.01801	-0.008653	0.0000	0.0000	0.0000	8.625	0.01801	19.99
RohmBP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohmAP	-7.295e-005	1.345	-0.03957	0.0000	0.0000	0.0000	-2.167	-2.407	180
RohmBP	0.001698	1.342	-0.0347	0.0000	0.0000	0.0000	-2.165	-3.094	179.9
RohmCP	0.000247	1.089	-0.0252	0.0000	0.0000	0.0000	-2.36	-3.346	160
RohmDP	0.001834	1.085	-0.01323	0.0000	0.0000	0.0000	-2.559	5.52	159.9
RohmEP	0.0003647	0.8409	-0.008519	0.0000	0.0000	0.0000	-2.954	-4.276	140
RohmFP	0.00215	0.8363	-0.00647	0.0000	0.0000	0.0000	-2.952	5.954	139.9
RohmGP	0.001224	0.6139	-0.001304	0.0000	0.0000	0.0000	-3.346	-5.184	120
RohmHP	0.001557	0.4196	-0.001161	0.0000	0.0000	0.0000	-3.739	-6.407	119.9
RohmJP	0.001422	0.2688	-0.005026	0.0000	0.0000	0.0000	-4.132	-6.896	100
RohmAP	0.00165	0.1513	-0.009949	0.0000	0.0000	0.0000	-4.526	-7.426	79.92
RohmBP	0.001668	0.2712	-0.00717	0.0000	0.0000	0.0000	-4.919	-7.95	59.94
RohmCP	0.00177	0.2634	-0.00822	0.0000	0.0000	0.0000	-5.313	-8.451	40.01
RohmDP	0.001523	0.1546	-0.008176	0.0000	0.0000	0.0000	-5.71	-8.98	0
RohmEP	0.002221	0.1484	-0.00451	0.0000	0.0000	0.0000	-5.313	-9.221	19.98
RohmFP	0.001777	0.07147	-0.00713	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohmGP	0.002203	0.06492	-0.00487	0.0000	0.0000	0.0000	-5.313	-9.221	19.98
RohmHP	0.001585	0.02133	-0.003212	0.0000	0.0000	0.0000	-5.313	-9.221	19.98
RohmJP	0.002219	0.01506	-0.002209	0.0000	0.0000	0.0000	-5.313	-9.221	19.98
RohmAP	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohmBP	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohmCP	0.0003712	1.344	-0.05563	0.0000	0.0000	0.0000	-1.166	-0.6766	179.9
RohmDP	0.0003851	1.342	-0.0375	0.0000	0.0000	0.0000	-1.166	-3.352	179.9
RohmEP	0.0005873	1.088	-0.03813	0.0000	0.0000	0.0000	-1.56	-1.615	160
RohmFP	0.0006252	1.085	-0.01059	0.0000	0.0000	0.0000	-1.956	3.788	159.9
RohmGP	0.0006282	0.8397	-0.02266	0.0000	0.0000	0.0000	-1.953	-2.545	140
RohmHP	0.0007964	0.8366	-0.01022	0.0000	0.0000	0.0000	-1.953	4.221	139.9
RohmJP	0.0007964	0.6131	-0.01093	0.0000	0.0000	0.0000	-2.346	-3.453	120
RohmAP	0.0009417	0.6095	-0.009497	0.0000	0.0000	0.0000	-2.739	-4.675	119.9
RohmBP	0.00123	0.4217	-0.00516	0.0000	0.0000	0.0000	-2.739	-4.325	99.99
RohmCP	0.001079	0.2705	-0.008201	0.0000	0.0000	0.0000	-3.133	-5.164	99.92
RohmDP	0.001312	0.2651	-0.009253	0.0000	0.0000	0.0000	-3.133	-5.158	80
RohmEP	0.001265	0.1538	-0.00704	0.0000	0.0000	0.0000	-3.133	-5.681	79.93
RohmFP	0.001416	0.1538	-0.003439	0.0000	0.0000	0.0000	-3.526	-5.956	60
RohmGP	0.001421	0.1489	-0.003537	0.0000	0.0000	0.0000	-3.526	6.259	59.94
RohmHP	0.001552	0.07072	-0.004427	0.0000	0.0000	0.0000	-3.919	-6.72	40
RohmJP	0.001552	0.06545	-0.003909	0.0000	0.0000	0.0000	-3.919	6.856	39.96
RohmAP	0.001454	0.02051	-0.00234	0.0000	0.0000	0.0000	-4.313	-7.462	20
RohmBP	0.001453	0.01582	-0.01964	0.0000	0.0000	0.0000	-4.313	-7.489	19.98
RohmCP	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
RohmDP	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0
RohmEP	-0.001798	1.277	-0.0847	0.0000	0.0000	0.0000	4.528	1.277	174.9
RohmFP	-0.001883	1.214	-0.08239	0.0000	0.0000	0.0000	4.725	1.214	169.9
RohmGP	-0.001891	1.149	-0.07982	0.0000	0.0000	0.0000	4.922	1.149	164.9
RohmHP	-0.001983	1.021	-0.07489	0.0000	0.0000	0.0000	5.316	1.021	154.9
RohmJP	-0.002143	0.9613	-0.07246	0.0000	0.0000	0.0000	5.513	0.9613	149.9

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RohnBcs	-0.002081	0.896	-0.06989	0.0000	0.0000	0.0000	5.71	0.896	144.9
RohnCas	-0.002234	0.7586	-0.06407	0.0000	0.0000	0.0000	6.169	0.7586	133.3
RohnCbs	-0.002312	0.662	-0.06069	0.0000	0.0000	0.0000	6.431	0.662	126.6
RohnDbs	-0.002479	0.5412	-0.05396	0.0000	0.0000	0.0000	6.954	0.5412	113.3
RohnEbs	-0.002568	0.4767	-0.05056	0.0000	0.0000	0.0000	7.217	0.4767	106.6
RohnFbs	-0.002846	0.3643	-0.04401	0.0000	0.0000	0.0000	7.74	0.3643	93.3
RohnGbs	-0.002933	0.3134	-0.0408	0.0000	0.0000	0.0000	8.003	0.3134	86.62
RohnHbs	-0.002935	0.2012	-0.03286	0.0000	0.0000	0.0000	8.659	0.2012	69.97
RohnIbs	-0.003332	0.1015	-0.02351	0.0000	0.0000	0.0000	9.445	0.1015	48.98
RohnJbs	-0.003858	0.03441	-0.01419	0.0000	0.0000	0.0000	10.23	0.03441	29.99
RohnKbs	-0.006154	0.002049	-0.005025	0.0000	0.0000	0.0000	11.02	0.002049	9.995
SMB-Abs	-0.00101	1.278	-0.07918	0.0000	0.0000	0.0000	2.529	1.278	174.9
SMB-Bbs	-0.001095	1.214	-0.0768	0.0000	0.0000	0.0000	2.726	1.214	169.9
SMB-Cbs	-0.001103	1.15	-0.0744	0.0000	0.0000	0.0000	2.923	1.15	164.9
SMB-Dbs	-0.001136	1.023	-0.0696	0.0000	0.0000	0.0000	3.317	1.023	154.9
SMB-Ebs	-0.001356	0.9605	-0.06722	0.0000	0.0000	0.0000	3.513	0.9605	149.9
SMB-Fbs	-0.001293	0.8981	-0.06481	0.0000	0.0000	0.0000	3.71	0.8981	144.9
SMB-Gbs	-0.001448	0.7587	-0.05925	0.0000	0.0000	0.0000	4.169	0.7587	133.3
SMB-Hbs	-0.001526	0.6625	-0.05606	0.0000	0.0000	0.0000	4.431	0.6625	126.6
SMB-Ibs	-0.001695	0.5413	-0.04979	0.0000	0.0000	0.0000	4.955	0.5413	113.3
SMB-Jbs	-0.001784	0.4767	-0.04665	0.0000	0.0000	0.0000	5.217	0.4767	106.6
SMB-Kbs	-0.002064	0.3649	-0.04063	0.0000	0.0000	0.0000	5.741	0.3649	93.3
SMB-Lbs	-0.002151	0.3139	-0.03767	0.0000	0.0000	0.0000	6.004	0.3139	86.62
SMB-Mbs	-0.002169	0.201	-0.03031	0.0000	0.0000	0.0000	6.659	0.201	69.97
SMB-Nbs	-0.002551	0.1016	-0.02163	0.0000	0.0000	0.0000	7.445	0.1016	48.98
SMB-Obs	-0.003078	0.03435	-0.01302	0.0000	0.0000	0.0000	8.231	0.03435	29.99
SMB-Pbs	-0.005373	0.001637	-0.004686	0.0000	0.0000	0.0000	9.016	0.001637	9.995
RohnAas	-2.627e-005	1.281	-0.03507	0.0000	0.0000	0.0000	-2.265	-2.642	175
RohnAa2	0.001234	1.277	-0.0344	0.0000	0.0000	0.0000	-2.264	3.72	174.9
RohnAb2	9.976e-005	1.216	-0.03068	0.0000	0.0000	0.0000	-2.363	-2.877	170
RohnAb2	0.001917	1.213	-0.034	0.0000	0.0000	0.0000	-2.362	5.306	169.9
RohnAc2	0.0002571	1.153	-0.0265	0.0000	0.0000	0.0000	-2.462	-3.112	165
RohnAc2	0.001241	1.148	-0.0332	0.0000	0.0000	0.0000	-2.461	5.413	164.9
RohnBa2	0.00084	1.025	-0.01865	0.0000	0.0000	0.0000	-2.658	-3.58	155
RohnBa2	0.001142	1.021	-0.0133	0.0000	0.0000	0.0000	-2.658	5.627	154.9
RohnBb2	-0.0001826	0.9632	-0.01498	0.0000	0.0000	0.0000	-2.758	-3.813	150
RohnBb2	0.002503	0.9589	-0.13	0.0000	0.0000	0.0000	-2.755	5.735	149.9
RohnBc2	0.00138	0.9008	-0.01155	0.0000	0.0000	0.0000	-2.855	-4.046	145
RohnBc2	0.0007512	0.8963	-0.01284	0.0000	0.0000	0.0000	-2.855	5.843	144.9
RohnCa2	0.001017	0.7625	-0.004648	0.0000	0.0000	0.0000	-3.084	-4.582	133.3
RohnCa2	0.001396	0.7578	-0.01236	0.0000	0.0000	0.0000	-3.084	6.102	133.2
RohnCb2	0.001412	0.6863	-0.001353	0.0000	0.0000	0.0000	-3.215	-4.885	126.7
RohnCb2	0.001136	0.6816	-0.01201	0.0000	0.0000	0.0000	-3.215	6.253	126.5
RohnDa2	0.001558	0.5455	-0.003247	0.0000	0.0000	0.0000	-3.477	-5.479	113.3
RohnDa2	0.001158	0.5405	-0.0112	0.0000	0.0000	0.0000	-3.477	6.565	113.2
RohnDb2	0.001913	0.4814	-0.004474	0.0000	0.0000	0.0000	-3.608	-5.771	106.7
RohnDb2	0.0009131	0.4763	-0.01056	0.0000	0.0000	0.0000	-3.609	6.728	106.6
RohnEa2	0.001907	0.3686	-0.006351	0.0000	0.0000	0.0000	-3.87	-6.337	93.35
RohnEa2	0.001232	0.3632	-0.09439	0.0000	0.0000	0.0000	-3.87	7.069	93.25
RohnEb2	0.002034	0.3181	0.007248	0.0000	0.0000	0.0000	-4.001	-6.615	86.67
RohnEb2	0.0009567	0.3124	-0.00865	0.0000	0.0000	0.0000	-4.002	7.246	86.57
RohnFa2	0.003728	0.2084	0.008397	0.0000	0.0000	0.0000	-4.327	-7.293	70.01
RohnFa2	-0.0007687	0.2028	-0.07413	0.0000	0.0000	0.0000	-4.332	7.704	69.93
RohnGa2	0.003851	0.1089	-0.007995	0.0000	0.0000	0.0000	-4.732	-8.073	50.01
RohnGa2	-0.0006277	0.1028	-0.05502	0.0000	0.0000	0.0000	-4.725	8.285	49.94
RohnHa2	0.004279	0.04231	0.005455	0.0000	0.0000	0.0000	-5.113	-8.822	30.01
RohnHa2	-0.000589	0.03359	-0.03383	0.0000	0.0000	0.0000	-5.118	8.9	29.97
RohnIa2	0.004953	0.01089	-0.001514	0.0000	0.0000	0.0000	-5.508	-9.537	10
RohnIa2	0.001058	0.000107	-0.01156	0.0000	0.0000	0.0000	-5.511	9.548	9.988
SMB-Aa2	0.0005594	1.28	-0.05111	0.0000	0.0000	0.0000	-1.264	-0.9113	174.9
SMB-Aa2	0.0002728	1.277	-0.0173	0.0000	0.0000	0.0000	-1.265	3.469	174.9
SMB-Ab2	0.000428	1.215	-0.04662	0.0000	0.0000	0.0000	-1.363	-1.146	170
SMB-Ab2	0.0006731	1.213	-0.0107	0.0000	0.0000	0.0000	-1.363	3.575	169.9
SMB-Ac2	0.0007805	1.151	-0.04229	0.0000	0.0000	0.0000	-1.461	-1.381	165
SMB-Ac2	0.0003369	1.149	-0.01065	0.0000	0.0000	0.0000	-1.462	3.681	164.9
SMB-Ba2	0.0002899	1.022	-0.034	0.0000	0.0000	0.0000	-1.658	-1.849	155
SMB-Ba2	0.0006801	0.9618	-0.03002	0.0000	0.0000	0.0000	-1.757	3.895	154.9
SMB-Bb2	0.0006143	0.959	-0.03002	0.0000	0.0000	0.0000	-1.756	-2.082	150
SMB-Bc2	0.001013	0.9001	-0.02624	0.0000	0.0000	0.0000	-1.855	-2.314	145
SMB-Bc2	0.0004046	0.8972	-0.0304	0.0000	0.0000	0.0000	-1.855	4.111	144.9
SMB-Ca2	0.001397	0.7613	-0.01824	0.0000	0.0000	0.0000	-2.084	-2.85	133.3
SMB-Ca2	0.0002557	0.7582	-0.01003	0.0000	0.0000	0.0000	-2.085	4.37	133.2
SMB-Cb2	0.001565	0.6953	-0.01433	0.0000	0.0000	0.0000	-2.215	-3.154	126.6

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Rohn11	0.0000	0.6987	-1.8902	0.0000	-0.6987	1.8902	0.0016	0.0213	0.0012
Rohn12	0.0000	0.6987	-1.8902	0.0000	-0.6987	1.8902	0.0022	0.0151	-0.0021
Rohn13	0.0000	0.3573	8.2956	0.9815	16.4342	175.0474	0.0000	0.0000	0.0000
Rohn14	0.0000	0.3573	-0.9815	-3.1860	7.7436	-217.7709	0.0000	0.0000	0.0000
Rohn15	0.0000	0.2113	-0.2682	-0.0000	-0.2113	0.2682	0.0004	1.3439	-0.0556
Rohn16	0.0000	0.2113	-0.2682	-0.0000	-0.2112	0.2682	0.0004	1.3420	-0.1075
Rohn17	0.0000	0.4742	-0.5646	-0.0000	-0.4742	0.5646	0.0006	1.0875	-0.0381
Rohn18	0.0000	0.4742	-0.5646	-0.0000	-0.4742	0.5646	0.0006	1.0850	-0.1059
Rohn19	0.0000	0.5678	-0.6874	-0.0000	-0.5678	0.6874	0.0008	0.8397	-0.0227
Rohn20	0.0000	0.5678	-0.6874	-0.0000	-0.5678	0.6874	0.0008	0.8366	-0.1022
Rohn21	0.0000	0.6119	-0.8173	-0.0000	-0.6119	0.8173	0.0011	0.6131	-0.0109
Rohn22	0.0000	0.6119	-0.8173	-0.0000	-0.6119	0.8173	0.0009	0.6095	-0.0350
Rohn23	0.0000	0.6206	-0.9805	-0.0000	-0.6206	0.9805	0.0012	0.4217	-0.0052
Rohn24	0.0000	0.6206	-0.9805	-0.0000	-0.6208	0.9805	0.0011	0.4177	-0.0820
Rohn25	0.0000	0.7000	-1.3252	-0.0000	-0.7000	1.3252	0.0013	0.2705	0.0009
Rohn26	0.0000	0.7000	-1.3252	-0.0000	-0.7000	1.3252	0.0013	0.2661	-0.0704
Rohn27	0.0000	0.7560	-1.6362	-0.0000	-0.7560	1.6362	0.0014	0.1538	-0.0034
Rohn28	0.0000	0.7560	-1.6362	-0.0000	-0.7560	1.6362	0.0014	0.1469	-0.0034
Rohn29	0.0000	0.7110	-1.7748	-0.0000	-0.7110	1.7748	0.0015	0.0707	0.0044
Rohn30	0.0000	0.7110	-1.7748	-0.0000	-0.7110	1.7748	0.0016	0.0655	-0.0391
Rohn31	0.0000	0.6987	-1.8902	-0.0000	-0.6987	1.8902	0.0015	0.0205	-0.0023
Rohn32	0.0000	0.6987	-1.8902	-0.0000	-0.6987	1.8902	0.0015	0.0155	-0.0196
Rohn33	0.0000	0.3573	-0.9815	16.1768	33.4471	273.1255	0.0000	0.0000	0.0000
Rohn34	0.0000	0.3573	-0.9815	-4.6115	13.7559	-309.1828	0.0000	0.0000	0.0000
Rohn35	0.0000	0.2853	-0.2919	0.0000	-0.2853	0.2919	-0.0018	1.2774	-0.0647
Rohn36	0.0000	0.9534	-0.4682	0.0000	-0.9534	0.4682	-0.0019	1.2140	-0.0823
Rohn37	0.0000	0.2113	-0.2682	0.0000	-0.2113	0.2682	-0.0019	1.1486	-0.0798
Rohn38	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	-0.0020	1.0213	-0.0749
Rohn39	0.0000	1.9217	-1.2704	0.0000	-1.9217	1.2704	-0.0021	0.9613	-0.0725
Rohn40	0.0000	0.2630	-0.2934	-0.0000	-0.2630	0.2934	-0.0021	0.8960	-0.0699
Rohn41	0.0000	1.3178	-1.1720	-0.0000	-1.3178	1.1720	-0.0022	0.7586	-0.0641
Rohn42	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	-0.0023	0.6820	-0.0607
Rohn43	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	-0.0025	0.5412	-0.0540
Rohn44	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	-0.0026	0.4767	-0.0506
Rohn45	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	-0.0026	0.3643	-0.0440
Rohn46	0.0000	0.3864	-0.7700	-0.0000	-0.3864	0.7700	-0.0030	0.2012	-0.0329
Rohn47	0.0000	0.3696	-0.8661	-0.0000	-0.3696	0.8661	-0.0033	0.1013	-0.0235
Rohn48	0.0000	0.3414	-0.9087	-0.0000	-0.3414	0.9087	-0.0039	0.0344	-0.0142
Rohn49	0.0000	0.3573	-0.9815	-0.0000	-0.3573	0.9815	-0.0040	0.0020	-0.0050
Rohn50	0.0000	0.2113	-0.2682	-0.0000	-0.2113	0.2682	-0.0040	1.2783	-0.0792
Rohn51	0.0000	0.2113	-0.2682	-0.0000	-0.2113	0.2682	-0.0011	1.2144	-0.0768
Rohn52	0.0000	0.2113	-0.2682	-0.0000	-0.2113	0.2682	-0.0011	1.1495	-0.0744
Rohn53	0.0000	0.2530	-0.2934	-0.0000	-0.2530	0.2934	-0.0012	1.0225	-0.0696
Rohn54	0.0000	0.2530	-0.2934	-0.0000	-0.2530	0.2934	-0.0014	0.9605	-0.0672
Rohn55	0.0000	0.2630	-0.2934	-0.0000	-0.2630	0.2934	-0.0013	0.8981	-0.0648
Rohn56	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	-0.0014	0.7587	-0.0592
Rohn57	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	-0.0015	0.6825	-0.0561
Rohn58	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	-0.0017	0.5413	-0.0498
Rohn59	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	-0.0018	0.4767	-0.0466
Rohn60	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	-0.0021	0.3649	-0.0406
Rohn61	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	-0.0022	0.3139	-0.0377
Rohn62	0.0000	0.3864	-0.7700	-0.0000	-0.3864	0.7700	-0.0022	0.2010	-0.0303
Rohn63	0.0000	0.3696	-0.8661	-0.0000	-0.3696	0.8661	-0.0026	0.1016	-0.0216
Rohn64	0.0000	0.3414	-0.9087	-0.0000	-0.3414	0.9087	-0.0031	0.0343	-0.0130
Rohn65	0.0000	0.3573	-0.9815	-0.0000	-0.3573	0.9815	-0.0034	0.0016	-0.0047
Rohn66	0.0000	1.3898	-0.5092	-0.0000	-1.3898	0.5092	-0.0004	1.2810	-0.0351
Rohn67	0.0000	0.2853	-0.2919	0.0000	-0.2853	0.2919	-0.0002	1.2769	-0.1344
Rohn68	0.0000	0.3411	-0.3442	0.0000	-0.3411	0.3442	0.0001	1.2153	-0.0307
Rohn69	0.0000	0.2113	-0.2682	0.0000	-0.2113	0.2682	0.0019	1.2128	-0.1340
Rohn70	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	0.0003	1.1525	-0.0265
Rohn71	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	0.0012	1.1482	-0.1332
Rohn72	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	0.0008	1.0254	-0.0187
Rohn73	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	0.0011	1.0212	-0.1313
Rohn74	0.0000	1.8763	-1.2504	0.0000	-1.8763	1.2504	0.0002	0.9632	-0.0150
Rohn75	0.0000	1.8763	-1.2504	0.0000	-1.8763	1.2504	0.0025	0.9589	-0.1300
Rohn76	0.0000	0.4048	-0.4204	0.0000	-0.4048	0.4204	0.0014	0.9008	-0.0115
Rohn77	0.0000	0.2630	-0.2934	0.0000	-0.2630	0.2934	0.0008	0.8963	-0.1284
Rohn78	0.0000	1.3178	-1.1720	0.0000	-1.3178	1.1720	0.0010	0.7625	-0.0846
Rohn79	0.0000	1.3178	-1.1720	0.0000	-1.3178	1.1720	0.0014	0.7578	-0.1236
Rohn80	0.0000	0.3048	-0.3920	0.0000	-0.3048	0.3920	0.0014	0.6863	-0.0014
Rohn81	0.0000	0.3048	-0.3920	0.0000	-0.3048	0.3920	0.0011	0.6816	-0.1201
Rohn82	0.0000	0.4360	-0.6703	0.0000	-0.4360	0.6703	0.0016	0.5455	-0.0032
Rohn83	0.0000	0.3071	-0.4253	0.0000	-0.3071	0.4253	0.0012	0.5405	-0.1112

Rohndb1	0.0000	0.3688	-0.5103	0.0000	-0.3688	0.5103	0.0019	0.4814	0.0045
Rohndb2	0.0000	0.3071	-0.4253	0.0000	-0.3071	0.4253	0.0009	0.4763	-0.1056
Rohndb3	0.0000	0.3137	-0.5552	0.0000	-0.3137	0.5552	0.0019	0.3866	0.0064
Rohndb4	0.0000	0.3137	-0.5552	0.0000	-0.3137	0.5552	0.0012	0.3632	-0.0944
Rohndb5	0.0000	0.4361	-0.4802	0.0000	-0.4361	0.4802	0.0021	0.3181	0.0072
Rohndb6	0.0000	0.3137	-0.5552	0.0000	-0.3137	0.5552	0.0010	0.3124	-0.0885
Rohndb7	0.0000	0.3864	-0.7700	0.0000	-0.3864	0.7700	0.0037	0.2084	0.0084
Rohndb8	0.0000	0.3864	-0.7700	0.0000	-0.3864	0.7700	-0.0008	0.2028	-0.0741
Rohndb9	0.0000	0.3696	-0.8661	0.0000	-0.3696	0.8661	0.0039	0.1089	0.0080
Rohndb10	0.0000	0.3696	-0.8661	0.0000	-0.3696	0.8661	-0.0006	0.1028	-0.0550
Rohndb11	0.0000	0.3414	-0.9087	0.0000	-0.3414	0.9087	0.0043	0.0423	0.0055
Rohndb12	0.0000	0.3573	-0.9815	0.0000	-0.3573	0.9815	0.0006	0.0354	-0.0338
Rohndb13	0.0000	0.3573	-0.9815	0.0000	-0.3573	0.9815	0.0050	0.0109	0.0015
Rohndb14	0.0000	0.2113	-0.2692	-0.0000	-0.2113	0.2692	0.0006	1.2797	-0.0511
Rohndb15	0.0000	0.2113	-0.2692	-0.0000	-0.2113	0.2692	0.0003	1.2775	-0.1073
Rohndb16	0.0000	0.2113	-0.2692	-0.0000	-0.2113	0.2692	0.0004	1.2152	-0.1046
Rohndb17	0.0000	0.2113	-0.2692	-0.0000	-0.2113	0.2692	0.0007	1.2132	-0.1070
Rohndb18	0.0000	0.2113	-0.2692	-0.0000	-0.2113	0.2692	0.0008	1.1912	-0.1042
Rohndb19	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0002	1.1488	-0.1065
Rohndb20	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0009	1.0244	-0.1030
Rohndb21	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0003	1.0218	-0.1052
Rohndb22	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0007	0.9618	-0.1030
Rohndb23	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0008	0.9590	-0.1034
Rohndb24	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0010	0.9001	-0.0282
Rohndb25	0.0000	0.2630	-0.2954	-0.0000	-0.2630	0.2954	0.0004	0.8972	-0.1034
Rohndb26	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	0.0014	0.7613	-0.1082
Rohndb27	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	0.0003	0.7582	-0.1003
Rohndb28	0.0000	0.3048	-0.3920	-0.0000	-0.3048	0.3920	0.0016	0.6853	-0.1043
Rohndb29	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	0.0002	0.6821	-0.0978
Rohndb30	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	0.0018	0.5445	-0.0093
Rohndb31	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	0.0002	0.5409	-0.0913
Rohndb32	0.0000	0.3071	-0.4253	-0.0000	-0.3071	0.4253	0.0021	0.4804	-0.0064
Rohndb33	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	-0.0001	0.4768	-0.0869
Rohndb34	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	0.0017	0.3678	-0.0027
Rohndb35	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	0.0006	0.3639	-0.0785
Rohndb36	0.0000	0.3137	-0.5552	-0.0000	-0.3137	0.5552	0.0019	0.3173	-0.0007
Rohndb37	0.0000	0.3864	-0.7700	-0.0000	-0.3864	0.7700	0.0005	0.3131	-0.0746
Rohndb38	0.0000	0.3864	-0.7700	-0.0000	-0.3864	0.7700	0.0037	0.2075	0.0026
Rohndb39	0.0000	0.3696	-0.8661	-0.0000	-0.3696	0.8661	-0.0014	0.2034	-0.0632
Rohndb40	0.0000	0.3696	-0.8661	-0.0000	-0.3696	0.8661	0.0037	0.1081	0.0043
Rohndb41	0.0000	0.3414	-0.9087	-0.0000	-0.3414	0.9087	-0.0011	0.1034	-0.0476
Rohndb42	0.0000	0.3414	-0.9087	-0.0000	-0.3414	0.9087	0.0041	0.0415	0.0037
Rohndb43	0.0000	0.3573	-0.9815	-0.0000	-0.3573	0.9815	-0.0010	0.0360	-0.0297
Rohndb44	0.0000	0.3573	-0.9815	-0.0000	-0.3573	0.9815	0.0048	0.0101	0.0011
Rohndb45	0.0000	0.3573	-0.9815	-0.0000	-0.3573	0.9815	0.0005	0.0007	-0.0105

*** Analysis Results for Load Case No. 6 "DL + Ice Only" - Number of iterations in SAPS 9

Equilibrium Joint Positions and Rotations for Load Case "DL + Ice Only":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Ros (ft)	Y-Ros (ft)	Z-Ros (ft)
RohnA	-0.002524	-0.001655	-0.0806	0.0000	0.0000	0.0000	4.33	-0.001655	179.9
RohnB	-0.002609	-0.001159	-0.0721	0.0000	0.0000	0.0000	5.118	-0.001159	159.9
RohnC	-0.002721	-0.0008657	-0.06406	0.0000	0.0000	0.0000	5.966	-0.0008657	139.9
RohnD	-0.002866	-0.0005343	-0.05529	0.0000	0.0000	0.0000	6.692	-0.0005343	119.9
RohnE	-0.003061	-0.0003224	-0.04626	0.0000	0.0000	0.0000	7.478	-0.0003224	99.95
RohnF	-0.003205	-0.0001819	-0.03701	0.0000	0.0000	0.0000	8.265	-0.0001819	79.95
RohnG	-0.003571	-9.04e-005	-0.02192	0.0000	0.0000	0.0000	9.031	-9.04e-005	59.97
RohnH	-0.003807	-3.478e-005	-0.0188	0.0000	0.0000	0.0000	9.837	-1.478e-005	39.98
RohnI	-0.003663	-6.687e-006	-0.009429	0.0000	0.0000	0.0000	10.63	-6.687e-006	19.99
RohnJ	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	-0.001737	-0.001651	-0.075	0.0000	0.0000	0.0000	2.331	-0.001651	179.9
SNB-BP	-0.001822	-0.001117	-0.06708	0.0000	0.0000	0.0000	3.119	-0.001117	159.9
SNB-CP	-0.001934	-0.0008092	-0.05904	0.0000	0.0000	0.0000	3.906	-0.0008092	139.9
SNB-DP	-0.002082	-0.0005326	-0.05084	0.0000	0.0000	0.0000	4.693	-0.0005326	119.9
SNB-EP	-0.002278	-0.0003236	-0.0424	0.0000	0.0000	0.0000	5.479	-0.0003236	99.96
SNB-FP	-0.002523	-0.0001836	-0.03413	0.0000	0.0000	0.0000	6.265	-0.0001836	79.97
SNB-GP	-0.00272	-9.087e-005	-0.02571	0.0000	0.0000	0.0000	7.052	-9.087e-005	59.97
SNB-HP	-0.003027	-3.987e-005	-0.01725	0.0000	0.0000	0.0000	7.838	-3.987e-005	39.98
SNB-IP	-0.002882	-6.899e-006	-0.008636	0.0000	0.0000	0.0000	8.625	-6.899e-006	19.99
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	2.229e-005	-0.0001816	-0.08079	0.0000	0.0000	0.0000	-2.166	-3.753	179.9
RohnA2	1.915e-005	-0.003123	-0.08057	0.0000	0.0000	0.0000	-2.166	-3.749	179.9
RohnB1	0.0003667	-0.0005662	-0.07269	0.0000	0.0000	0.0000	-2.56	-4.434	159.9
RohnB2	0.0003975	-0.002905	-0.0725	0.0000	0.0000	0.0000	-2.56	-4.432	159.9
RohnC1	0.0007373	0.001187	-0.06422	0.0000	0.0000	0.0000	-2.954	-5.116	139.9
RohnC2	0.0007404	-0.002804	-0.06406	0.0000	0.0000	0.0000	-2.954	-5.115	139.9
RohnD1	0.001036	0.00172	-0.05544	0.0000	0.0000	0.0000	-3.346	-5.786	119.9
RohnD2	0.001035	-0.002786	-0.05529	0.0000	0.0000	0.0000	-3.346	-5.785	119.9
RohnE1	0.001298	0.002193	-0.04617	0.0000	0.0000	0.0000	-3.739	-6.477	99.95
RohnE2	0.001299	-0.00284	-0.04605	0.0000	0.0000	0.0000	-3.739	-6.476	99.95
RohnF1	0.001523	0.002603	-0.03709	0.0000	0.0000	0.0000	-4.132	-7.157	79.96
RohnF2	0.001524	-0.00297	-0.037	0.0000	0.0000	0.0000	-4.132	-7.157	79.96
RohnG1	0.001722	0.002965	-0.02798	0.0000	0.0000	0.0000	-4.526	-7.839	59.97
RohnG2	0.001722	-0.003146	-0.02791	0.0000	0.0000	0.0000	-4.526	-7.839	59.97
RohnH1	0.001879	0.003248	-0.01883	0.0000	0.0000	0.0000	-4.919	-8.519	39.98
RohnH2	0.001879	-0.003318	-0.01879	0.0000	0.0000	0.0000	-4.919	-8.519	39.98
RohnI1	0.001826	0.003162	-0.009444	0.0000	0.0000	0.0000	-5.313	-9.203	19.99
RohnI2	0.001827	-0.003176	-0.009427	0.0000	0.0000	0.0000	-5.313	-9.203	19.99
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
SNB-A1	-0.0003723	-0.0008637	-0.07509	0.0000	0.0000	0.0000	-1.167	-2.021	179.9
SNB-A2	-0.0003721	-0.002439	-0.07499	0.0000	0.0000	0.0000	-1.167	-2.018	179.9
SNB-B1	3.244e-006	-0.0001159	-0.06719	0.0000	0.0000	0.0000	-1.56	-2.703	159.9
SNB-B2	3.273e-006	-0.002223	-0.06708	0.0000	0.0000	0.0000	-1.56	-2.701	159.9
SNB-C1	0.0003441	0.0005061	-0.05915	0.0000	0.0000	0.0000	-1.954	-3.384	139.9
SNB-C2	0.0003443	-0.002125	-0.05904	0.0000	0.0000	0.0000	-1.954	-3.382	139.9
SNB-D1	0.0006433	0.00104	-0.05093	0.0000	0.0000	0.0000	-2.347	-4.065	119.9
SNB-D2	0.0006437	-0.002106	-0.05083	0.0000	0.0000	0.0000	-2.347	-4.064	119.9
SNB-E1	0.0009063	0.001515	-0.04217	0.0000	0.0000	0.0000	-2.74	-4.745	99.96
SNB-E2	0.0009065	-0.002162	-0.0424	0.0000	0.0000	0.0000	-2.74	-4.745	99.96
SNB-F1	0.001132	0.001926	-0.03419	0.0000	0.0000	0.0000	-3.133	-5.426	79.97
SNB-F2	0.001132	-0.002294	-0.03413	0.0000	0.0000	0.0000	-3.133	-5.426	79.97
SNB-G1	0.001331	0.002289	-0.02575	0.0000	0.0000	0.0000	-3.526	-6.108	59.97
SNB-G2	0.001331	-0.00247	-0.0257	0.0000	0.0000	0.0000	-3.526	-6.107	59.97
SNB-H1	0.001489	0.002572	-0.01728	0.0000	0.0000	0.0000	-3.919	-6.788	39.98
SNB-H2	0.001489	-0.002642	-0.01725	0.0000	0.0000	0.0000	-3.919	-6.788	39.98
SNB-I1	0.001436	0.002486	-0.008648	0.0000	0.0000	0.0000	-4.313	-7.47	19.99
SNB-I2	0.001436	-0.0025	-0.008635	0.0000	0.0000	0.0000	-4.313	-7.47	19.99
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
RohnA5	-0.002511	-0.001517	-0.07861	0.0000	0.0000	0.0000	4.527	-0.001517	174.9
RohnA6	-0.002563	-0.001394	-0.0756	0.0000	0.0000	0.0000	4.724	-0.001394	169.9
RohnA7	-0.002531	-0.001272	-0.07456	0.0000	0.0000	0.0000	4.921	-0.001272	164.9
RohnA8	-0.002564	-0.001066	-0.07044	0.0000	0.0000	0.0000	5.215	-0.001066	154.9
RohnA9	-0.002673	-0.0009752	-0.06836	0.0000	0.0000	0.0000	5.512	-0.0009752	149.9

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RohmBcs	-0.002597	-0.0008872	-0.06622	0.0000	0.0000	0.0000	5.709	-0.0008872	144.9
RohmCAs	-0.002668	-0.0007095	-0.06119	0.0000	0.0000	0.0000	6.168	-0.0007095	133.3
RohmCbs	-0.002699	-0.0006163	-0.05824	0.0000	0.0000	0.0000	6.431	-0.0006163	126.6
RohmDbs	-0.002789	-0.0004531	-0.05224	0.0000	0.0000	0.0000	6.954	-0.0004531	113.3
RohmDbs	-0.002844	-0.0003736	-0.04515	0.0000	0.0000	0.0000	7.216	-0.0003736	106.6
RohmEbs	-0.003036	-0.0002225	-0.04307	0.0000	0.0000	0.0000	8.003	-0.0002225	86.62
RohmFbs	-0.003122	-0.0001264	-0.04004	0.0000	0.0000	0.0000	8.658	-0.0001264	69.97
RohmGbs	-0.003074	-0.0001066	-0.03237	0.0000	0.0000	0.0000	9.445	-5.498e-005	49.98
RohmHbs	-0.0031	-5.498e-005	-0.02337	0.0000	0.0000	0.0000	10.23	-1.427e-005	29.99
RohmIbs	-0.003892	-1.427e-005	-0.01416	0.0000	0.0000	0.0000	11.02	1.11e-006	9.995
RohmJbs	-0.006163	1.11e-006	-0.005023	0.0000	0.0000	0.0000	2.528	-0.001519	174.9
RohmKbs	-0.001723	-0.001395	-0.07106	0.0000	0.0000	0.0000	2.725	-0.001395	169.9
RohmLbs	-0.001175	-0.001335	-0.07106	0.0000	0.0000	0.0000	2.922	-0.001274	164.9
RohmMbs	-0.001143	-0.001274	-0.06908	0.0000	0.0000	0.0000	3.316	-0.001067	154.9
RohmNbs	-0.001777	-0.001067	-0.06508	0.0000	0.0000	0.0000	3.513	-0.0009759	149.9
RohmObs	-0.001866	-0.0009753	-0.06308	0.0000	0.0000	0.0000	3.709	-0.0008876	144.9
RohmPbs	-0.001866	-0.0008876	-0.06106	0.0000	0.0000	0.0000	4.168	-0.0007069	133.3
RohmQbs	-0.001882	-0.0007069	-0.05633	0.0000	0.0000	0.0000	4.431	-0.0006147	126.6
RohmRbs	-0.001914	-0.0006147	-0.05358	0.0000	0.0000	0.0000	4.955	-0.0004513	113.3
RohmSbs	-0.002005	-0.0004513	-0.04804	0.0000	0.0000	0.0000	5.217	-0.000381	106.6
RohmTbs	-0.002061	-0.000381	-0.04522	0.0000	0.0000	0.0000	5.741	-0.0002899	93.3
RohmUbs	-0.002273	-0.0002899	-0.03689	0.0000	0.0000	0.0000	6.004	-0.0002233	86.62
RohmVbs	-0.00234	-0.0002233	-0.03689	0.0000	0.0000	0.0000	6.659	-0.0001268	69.97
RohmWbs	-0.002293	-0.0001268	-0.02992	0.0000	0.0000	0.0000	7.445	-5.536e-005	49.98
RohmXbs	-0.002519	-5.536e-005	-0.02148	0.0000	0.0000	0.0000	8.231	-1.454e-005	29.99
RohmYbs	-0.002111	-1.454e-005	-0.01289	0.0000	0.0000	0.0000	9.016	7.533e-007	9.995
RohmZbs	-0.003581	7.533e-007	-0.004694	0.0000	0.0000	0.0000	9.016	7.533e-007	9.995
RohmA1	0.0001024	-1.29e-003	-0.0788	0.0000	0.0000	0.0000	-2.265	-3.923	174.9
RohmB1	0.0001059	-0.003028	-0.07858	0.0000	0.0000	0.0000	-2.265	3.92	174.9
RohmC1	0.0001222	-0.0002062	-0.07679	0.0000	0.0000	0.0000	-2.363	-4.093	169.9
RohmD1	0.0002135	-0.002996	-0.07657	0.0000	0.0000	0.0000	-2.363	4.091	169.9
RohmE1	0.000274	-0.0003455	-0.07475	0.0000	0.0000	0.0000	-2.462	-4.264	164.9
RohmF1	0.0002794	-0.0029	-0.07454	0.0000	0.0000	0.0000	-2.462	4.261	164.9
RohmG1	0.0004494	0.0006701	-0.07062	0.0000	0.0000	0.0000	-2.659	-4.605	154.9
RohmH1	0.0004535	0.000808	-0.07043	0.0000	0.0000	0.0000	-2.659	4.603	154.9
RohmI1	0.0005777	0.0009099	-0.06954	0.0000	0.0000	0.0000	-2.757	-4.775	149.9
RohmJ1	0.0005786	-0.002853	-0.06836	0.0000	0.0000	0.0000	-2.757	4.773	149.9
RohmK1	0.0006079	-0.0009616	-0.06538	0.0000	0.0000	0.0000	-2.855	-4.946	144.9
RohmL1	0.0006105	-0.00274	-0.06521	0.0000	0.0000	0.0000	-2.855	4.944	144.9
RohmM1	0.0007329	0.001287	-0.06135	0.0000	0.0000	0.0000	-3.085	-5.343	133.3
RohmN1	0.0007937	-0.002707	-0.06119	0.0000	0.0000	0.0000	-3.085	5.341	133.3
RohmO1	0.0008828	0.001449	-0.05839	0.0000	0.0000	0.0000	-3.216	-5.57	126.6
RohmP1	0.0008849	-0.002685	-0.05824	0.0000	0.0000	0.0000	-3.216	5.568	126.6
RohmQ1	0.0008849	0.001767	-0.05239	0.0000	0.0000	0.0000	-3.477	-6.023	113.3
RohmR1	0.001061	-0.002676	-0.05224	0.0000	0.0000	0.0000	-3.477	6.022	113.3
RohmS1	0.001142	0.001917	-0.04928	0.0000	0.0000	0.0000	-3.608	-6.249	106.6
RohmT1	0.001147	-0.002684	-0.04917	0.0000	0.0000	0.0000	-3.608	6.249	106.6
RohmU1	0.001334	0.002262	-0.04317	0.0000	0.0000	0.0000	-3.87	-6.703	93.3
RohmV1	0.001336	-0.002805	-0.04306	0.0000	0.0000	0.0000	-3.87	6.703	93.3
RohmW1	0.001402	0.002386	-0.04014	0.0000	0.0000	0.0000	-4.002	-6.931	86.62
RohmX1	0.001402	-0.002835	-0.04003	0.0000	0.0000	0.0000	-4.002	6.931	86.62
RohmY1	0.001442	0.002475	-0.03254	0.0000	0.0000	0.0000	-4.329	-7.499	69.97
RohmZ1	0.001448	-0.002738	-0.03247	0.0000	0.0000	0.0000	-4.329	7.498	69.97
RohmA2	0.001657	0.00286	-0.02341	0.0000	0.0000	0.0000	-4.722	-8.179	49.98
RohmB2	0.001657	-0.002978	-0.02336	0.0000	0.0000	0.0000	-4.722	8.179	49.98
RohmC2	0.001661	0.003344	-0.01418	0.0000	0.0000	0.0000	-5.116	-8.861	29.99
RohmD2	0.001932	-0.003379	-0.01415	0.0000	0.0000	0.0000	-5.116	8.861	29.99
RohmE2	0.001936	0.005334	-0.00503	0.0000	0.0000	0.0000	-5.509	-9.543	9.995
RohmF2	0.00308	-0.005337	-0.005022	0.0000	0.0000	0.0000	-5.509	9.543	9.995
RohmG2	0.003082	-0.0006944	-0.07313	0.0000	0.0000	0.0000	-1.265	-2.152	174.9
RohmH2	0.0032913	-0.002347	-0.07303	0.0000	0.0000	0.0000	-1.265	2.189	174.9
RohmI2	-0.0001615	-0.0004762	-0.07117	0.0000	0.0000	0.0000	-1.364	-2.362	169.9
RohmJ2	-0.0001615	-0.002314	-0.07105	0.0000	0.0000	0.0000	-1.364	2.359	169.9
RohmK2	-0.000117	-0.0003386	-0.06918	0.0000	0.0000	0.0000	-1.462	-2.533	164.9
RohmL2	-0.0000113	-0.002217	-0.06907	0.0000	0.0000	0.0000	-1.462	2.53	164.9
RohmM2	5.577e-005	-1.173e-005	-0.06519	0.0000	0.0000	0.0000	-1.659	-2.873	154.9
RohmN2	5.577e-005	-0.002128	-0.06508	0.0000	0.0000	0.0000	-1.659	2.871	154.9
RohmO2	0.0001844	0.000219	-0.06308	0.0000	0.0000	0.0000	-1.757	-3.043	149.9
RohmP2	0.0001849	-0.002172	-0.06308	0.0000	0.0000	0.0000	-1.757	3.041	149.9
RohmQ2	0.0002155	0.0002795	-0.06117	0.0000	0.0000	0.0000	-1.855	-3.214	144.9
RohmR2	0.0002177	-0.002059	-0.06106	0.0000	0.0000	0.0000	-1.855	3.212	144.9
RohmS2	0.0003968	0.0006065	-0.05643	0.0000	0.0000	0.0000	-2.085	-3.611	133.3
RohmT2	0.0004019	-0.002026	-0.05632	0.0000	0.0000	0.0000	-2.085	3.609	133.3
RohmU2	0.0004897	0.0007689	-0.05367	0.0000	0.0000	0.0000	-2.216	-3.838	126.6

Joint Label	X Force Usage (kNips)	X Y Force Usage (kNips)	Y Force Usage (kNips)	Y Z Comp. Force Usage (kNips)	Up lift Result. Force Usage (kNips)	Result. Force Usage (kNips)	X-X-M. Moment Usage (kN-k)	Y-Y-M. Moment Usage (kN-k)	Z-Z-M. Moment Usage (kN-k)	Max. Usage (kN-k)
Robust	5.02	0.0	-0.00	0.0	22.30	0.0	-0.00	0.0	-0.00	0.0
SNA-JP	11.38	0.0	-0.00	0.0	18.83	0.0	-0.00	0.0	-0.00	0.0
Robust	-2.51	0.0	-4.34	0.0	22.52	0.0	-0.00	0.0	-0.00	0.0
Robust	-2.51	0.0	4.34	0.0	22.28	0.0	-0.00	0.0	-0.00	0.0
SNA-JI	-5.69	0.0	-9.86	0.0	19.09	0.0	-0.00	0.0	-0.00	0.0
SNA-JZ	-5.69	0.0	9.86	0.0	18.80	0.0	-0.00	0.0	-0.00	0.0
Robust	5.02	0.0	-0.00	0.0	22.30	0.0	-0.00	0.0	-0.00	0.0
SNA-JP	11.38	0.0	-0.00	0.0	18.83	0.0	-0.00	0.0	-0.00	0.0
Robust	-2.51	0.0	-4.34	0.0	22.52	0.0	-0.00	0.0	-0.00	0.0
Robust	-2.51	0.0	4.34	0.0	22.28	0.0	-0.00	0.0	-0.00	0.0
SNA-JI	-5.69	0.0	-9.86	0.0	19.09	0.0	-0.00	0.0	-0.00	0.0
SNA-JZ	-5.69	0.0	9.86	0.0	18.80	0.0	-0.00	0.0	-0.00	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "DL + Ice Only":

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RohnDb1	0.0000	0.0000	-0.5103	-0.0000	-0.0000	0.5103	0.0011	0.0019	-0.0493
RohnDb2	0.0000	0.0000	-0.4253	-0.0000	-0.0000	0.4253	0.0011	-0.0027	-0.0491
RohnEa1	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0013	0.0023	-0.0432
RohnEa2	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0013	-0.0028	-0.0431
RohnEb1	0.0000	0.0000	-0.6802	-0.0000	-0.0000	0.6802	0.0014	0.0024	-0.0401
RohnEb2	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0014	-0.0028	-0.0400
RohnFa1	0.0000	0.0000	-0.7700	-0.0000	-0.0000	0.7700	0.0014	0.0025	-0.0325
RohnFa2	0.0000	0.0000	-0.7700	-0.0000	-0.0000	0.7700	0.0014	-0.0027	-0.0325
RohnGa1	0.0000	0.0000	-0.8661	-0.0000	-0.0000	0.8661	0.0017	0.0029	-0.0234
RohnGa2	0.0000	0.0000	-0.8661	-0.0000	-0.0000	0.8661	0.0017	-0.0030	-0.0234
RohnHa1	0.0000	0.0000	-0.9087	-0.0000	-0.0000	0.9087	0.0019	0.0033	-0.0142
RohnHa2	0.0000	0.0000	-0.9087	-0.0000	-0.0000	0.9087	0.0019	-0.0034	-0.0142
RohnIa1	0.0000	0.0000	-0.9815	-0.0000	-0.0000	0.9815	0.0031	0.0053	-0.0050
RohnIa2	0.0000	0.0000	-0.9815	-0.0000	-0.0000	0.9815	0.0031	-0.0053	-0.0050
SNB-Aa1	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0003	-0.0007	-0.0730
SNB-Aa2	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0003	-0.0023	-0.0730
SNB-Ab1	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0002	-0.0005	-0.0712
SNB-Ab2	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0002	-0.0023	-0.0711
SNB-Ac1	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0001	-0.0003	-0.0692
SNB-Ac2	0.0000	0.0000	-0.2692	-0.0000	-0.0000	0.2692	-0.0001	-0.0022	-0.0691
SNB-Ba1	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0001	-0.0000	-0.0652
SNB-Ba2	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0001	-0.0021	-0.0651
SNB-Bb1	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0002	-0.0002	-0.0632
SNB-Bb2	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0002	-0.0022	-0.0631
SNB-Ba1	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0002	0.0003	-0.0612
SNB-Ba2	0.0000	0.0000	-0.2954	-0.0000	-0.0000	0.2954	0.0002	-0.0021	-0.0611
SNB-Ca1	0.0000	0.0000	-0.3920	-0.0000	-0.0000	0.3920	0.0004	0.0006	-0.0564
SNB-Ca2	0.0000	0.0000	-0.3920	-0.0000	-0.0000	0.3920	0.0004	-0.0020	-0.0563
SNB-Cb1	0.0000	0.0000	-0.3920	-0.0000	-0.0000	0.3920	0.0005	0.0008	-0.0537
SNB-Cb2	0.0000	0.0000	-0.3920	-0.0000	-0.0000	0.3920	0.0005	-0.0020	-0.0536
SNB-Da1	0.0000	0.0000	-0.4253	-0.0000	-0.0000	0.4253	0.0007	0.0011	-0.0481
SNB-Da2	0.0000	0.0000	-0.4253	-0.0000	-0.0000	0.4253	0.0007	-0.0020	-0.0480
SNB-Db1	0.0000	0.0000	-0.4253	-0.0000	-0.0000	0.4253	0.0008	0.0012	-0.0453
SNB-Db2	0.0000	0.0000	-0.4253	-0.0000	-0.0000	0.4253	0.0008	-0.0012	-0.0452
SNB-Ea1	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0009	0.0016	-0.0397
SNB-Ea2	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0009	-0.0021	-0.0397
SNB-Eb1	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0010	0.0017	-0.0370
SNB-Eb2	0.0000	0.0000	-0.5552	-0.0000	-0.0000	0.5552	0.0010	-0.0022	-0.0369
SNB-Fa1	0.0000	0.0000	-0.7700	-0.0000	-0.0000	0.7700	0.0011	0.0018	-0.0300
SNB-Fa2	0.0000	0.0000	-0.7700	-0.0000	-0.0000	0.7700	0.0011	-0.0021	-0.0299
SNB-Ga1	0.0000	0.0000	-0.8661	-0.0000	-0.0000	0.8661	0.0013	0.0022	-0.0215
SNB-Ga2	0.0000	0.0000	-0.8661	-0.0000	-0.0000	0.8661	0.0013	-0.0023	-0.0215
SNB-Ha1	0.0000	0.0000	-0.9087	-0.0000	-0.0000	0.9087	0.0015	0.0027	-0.0130
SNB-Ha2	0.0000	0.0000	-0.9087	-0.0000	-0.0000	0.9087	0.0015	-0.0027	-0.0130
SNB-Ia1	0.0000	0.0000	-0.9815	-0.0000	-0.0000	0.9815	0.0027	0.0047	-0.0047
SNB-Ia2	0.0000	0.0000	-0.9815	-0.0000	-0.0000	0.9815	0.0027	-0.0047	-0.0047

*** Overall summary for all load cases - Usage = Maximum Stress / Allowable Stress
 Printed capacities do not include EIA allowable stress increase for wind load cases.
 The Group Summary reports on the member and load case that resulted in maximum usage
 which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Steel Strength (ksi)	Max Usage %	Max Use in Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	I/R Capacity (kips)	Conn. Shear Capacity (kips)	Conn. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R Length (ft)	Comp. No.	Boiler Comp.	
Rohn-D1	Rohn Diagonal 1	SAE 1.75X1.75X0.1875	36.0	80.39	80.39	Rohn-D871	-3.221 W+I 0 deg	3.005	16.200	8.156	0.500	0.500	175.53	10.034	4	1	1	
Rohn-D2	Rohn Diagonal 2	2X2X0.1875	36.0	98.21	98.21	Rohn-D861	-5.008 W+I 0 deg	3.824	16.200	8.156	0.500	0.500	166.50	10.934	4	1	1	
Rohn-D3	Rohn Diagonal 3	2.5X2.5X0.1875	36.0	86.22	86.22	Rohn-D851	-6.070 W+I -90 deg	5.280	16.200	8.156	0.500	0.500	159.72	13.177	4	1	1	
Rohn-D4	Rohn Diagonal 4	2.5X2.5X0.1875	36.0	86.33	86.33	Rohn-D841	-6.635 W+I 0 deg	5.764	16.200	10.875	0.500	0.500	175.58	14.388	4	1	1	
Rohn-D5	Rohn Diagonal 5	3X3X0.25	50.0	61.39	61.39	Rohn-D831	-7.051 W+I 90 deg	8.615	16.200	12.187	0.500	0.500	157.99	15.589	4	1	1	
Rohn-D6	Rohn Diagonal 6	3.5X3.5X0.25	50.0	61.60	61.60	Rohn-D821	-7.771 W+I 90 deg	9.463	16.200	12.187	0.500	0.500	163.31	18.989	4	1	1	
Rohn-D7	Rohn Diagonal 7	4X4X0.25	50.0	61.77	61.77	Rohn-D811	-9.273 W+I 0 deg	11.259	16.200	12.187	0.500	0.500	160.41	21.254	4	1	1	
Rohn-D8	Rohn Leg 1 Pipe	Pipe3EH	50.0	15.57	15.57	Rohn-L84P	-14.060 W+I 0 deg	67.718	0.000	0.000	1.000	1.000	52.67	5.004	1	0	0	
Rohn-D9	Rohn Leg 2 Pipe	Pipe3EH	50.0	35.32	35.32	Rohn-L83P	-10.473 W+I 0 deg	85.952	0.000	0.000	1.000	1.000	45.84	5.004	1	0	0	
Rohn-D10	Rohn Leg 3 Pipe	Pipe3EH	50.0	55.88	55.88	Rohn-L82P	-73.122 W+I 0 deg	98.153	0.000	0.000	1.000	1.000	54.04	6.665	1	0	0	
Rohn-D11	Rohn Leg 4 Pipe	Pipe3EH	50.0	78.92	78.92	Rohn-L81P	-137.804 W+I 0 deg	145.117	0.000	0.000	1.000	1.000	43.23	6.665	1	0	0	
Rohn-D12	Rohn Leg 5 Pipe	Pipe3EH	50.0	71.22	71.22	Rohn-L80P	-137.804 W+I 0 deg	145.117	0.000	0.000	1.000	1.000	43.23	6.665	1	0	0	
Rohn-D13	Rohn Leg 6 Pipe	Pipe3EH	50.0	79.60	79.60	Rohn-L79P	-168.771 W+I 0 deg	159.025	0.000	0.000	1.000	1.000	54.10	10.008	1	0	0	
Rohn-D14	Rohn Leg 7 Pipe	Pipe3EH	50.0	91.59	91.59	Rohn-L78P	-227.299 W+I 0 deg	186.124	0.000	0.000	1.000	1.000	40.57	10.008	1	0	0	
Rohn-D15	Rohn Leg 8 Pipe	Pipe3EH	50.0	74.74	74.74	Rohn-L77P	-253.018 W+I 0 deg	253.912	0.000	0.000	1.000	1.000	40.57	10.008	1	0	0	
Rohn-D16	Rohn Horizontal 1	SAE 1.75X1.75X0.1875	36.0	13.25	13.25	Rohn-H812	-2.511 W+I 60 deg	5.372	16.200	13.584	0.500	0.500	131.28	7.250	4	0	0	
Rohn-D17	Rohn Horizontal 2	2X2X0.1875	36.0	24.74	24.74	Rohn-D862	-3.057 W+I -90 deg	9.268	16.200	10.875	0.500	0.500	140.03	11.412	4	1	1	
Rohn-D18	Rohn Diagonal 1	SAE 2.5X2.5X0.1875	36.0	41.27	41.27	Rohn-D852	-7.010 W+I -90 deg	11.119	16.200	11.594	0.500	0.500	140.03	11.412	4	1	1	
Rohn-D19	Rohn Diagonal 4	SAE 3X3X0.5	36.0	41.27	41.27	Rohn-D842	-8.913 W+I -90 deg	27.855	16.200	21.750	0.500	0.500	121.07	11.784	4	1	1	
Rohn-D20	Rohn Diagonal 5	SAE 4X4X0.5	36.0	27.59	26.80	Rohn-D832	-8.575 W+I 90 deg	39.016	24.000	26.100	0.500	0.500	119.15	15.529	4	1	1	
Rohn-D21	Rohn Diagonal 6	SAE 4X4X0.625	36.0	37.59	35.35	Rohn-D811	-11.313 W+I 90 deg	53.490	24.000	32.625	0.500	0.500	112.03	17.142	4	1	1	
Rohn-D22	Rohn Diagonal 7	SAE 5X5X0.625	36.0	70.14	70.14	Rohn-D811	-22.444 W+I 90 deg	66.757	24.000	32.625	0.500	0.500	112.06	18.267	4	1	1	
Rohn-D23	Rohn Leg 1 Pipe	SMB-D12P	36.0	12.71	12.71	Rohn-L84P	-12.738 W+I 0 deg	75.146	0.000	0.000	1.000	1.000	55.09	5.004	1	0	0	
Rohn-D24	Rohn Leg 2 Pipe	SMB-D12P	36.0	50.51	50.51	Rohn-L83P	-74.342 W+I 0 deg	110.397	0.000	0.000	1.000	1.000	56.33	6.665	1	0	0	
Rohn-D25	Rohn Leg 3 Pipe	SMB-D12P	36.0	81.46	81.46	Rohn-L82P	-117.585 W+I 0 deg	108.266	0.000	0.000	1.000	1.000	43.23	6.665	1	0	0	
Rohn-D26	Rohn Leg 4 Pipe	SMB-D12P	36.0	81.38	81.38	Rohn-L81P	-206.884 W+I 0 deg	190.683	0.000	0.000	1.000	1.000	55.86	10.008	1	0	0	
Rohn-D27	Rohn Leg 5 Pipe	SMB-D12P	36.0	92.32	92.32	Rohn-L80P	-300.178 W+I 0 deg	243.879	0.000	0.000	1.000	1.000	41.70	10.008	1	0	0	
Rohn-D28	Rohn Leg 6 Pipe	SMB-D12P	36.0	84.80	84.80	Rohn-L79P	-358.927 W+I 0 deg	277.281	0.000	0.000	1.000	1.000	33.08	10.008	1	0	0	
Rohn-D29	Connect Towers	Big	0.1X0.1X1.1	36.0	0.03	0.03	Connect 1a1	-2.704 W+I 60 deg	11202.963	0.000	0.000	1.000	1.000	2.41	2.004	1	0	0
Rohn-D30	SMB Horizontal 1	Pipe	36.0	1.70	1.55	Rohn-H81	-1.338 W+I 0 deg	77.281	0.000	0.000	0.500	0.500	44.46	8.132	1	0	0	
Rohn-D31	SMB Horizontal 2	Pipe	36.0	5.76	1.55	Rohn-H81	-2.479 W+I 0 deg	119.111	0.000	0.000	0.500	0.500	50.00	40.11	9.493	1	0	0
Rohn-D32	Rohn Diagonal 8	SAE 2X2X0.375	36.0	60.12	60.12	Rohn-D871	-5.418 W+I 90 deg	6.759	16.200	16.312	0.500	0.500	173.34	11.238	4	1	1	

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Steel Strength	Max Usage	Max Tens.	Tension Control	Tension Force	Tension Load Case	Net Tens. Capacity	Comm. Capacity	Comm. Bearing	Comm. RUL	Comm. RUL	L/R Length	Curve No.	OF Bolts
			(ksi)	%	%		(kips)		(kips)	(kips)	(kips)	(kips)	(kips)	(ft)		
Rohn-D1	Rohn Diagonal 1	SAE 1.75X1.75X0.1875	36.0	80.39	24.82	Rohn-D871	2.699 W+I -60 deg	10.681	16.200	8.156	0.500	0.500	175.53	10.034	4	1
Rohn-D2	Rohn Diagonal 2	2X2X0.1875	36.0	98.21	43.78	Rohn-D861	4.761 W+I -90 deg	12.639	16.200	8.156	0.500	0.500	159.72	13.177	4	1
Rohn-D3	Rohn Diagonal 3	2.5X2.5X0.1875	36.0	86.22	54.53	Rohn-D851	6.930 W+I -90 deg	16.815	16.200	8.156	0.500	0.500	159.72	13.177	4	1
Rohn-D4	Rohn Diagonal 4	2.5X2.5X0.1875	36.0	86.33	45.05	Rohn-D841	6.531 W+I -90 deg	22.144	16.200	10.875	0.500	0.500	157.99	15.589	4	1
Rohn-D5	Rohn Diagonal 5	3X3X0.25	50.0	61.39	39.99	Rohn-D831	6.499 W+I -90 deg	30.910	16.200	12.187	0.500	0.500	157.99	15.589	4	1
Rohn-D6	Rohn Diagonal 6	3.5X3.5X0.25	50.0	61.60	48.87	Rohn-D821	7.961 W+I 90 deg	37.004	16.200	12.187	0.500	0.500	160.41	21.254	4	1
Rohn-D7	Rohn Diagonal 7	4X4X0.25	50.0	61.77	52.94	Rohn-D811	8.603 W+I 90 deg	43.098	16.200	12.187	0.500	0.500	160.41	21.254	4	1
Rohn-D8	Rohn Leg 1 Pipe	Pipe3EH	50.0	15.57	9.63	Rohn-L84P	10.901 W+I -60 deg	84.900	0.000	0.000	1.000	1.000	52.67	5.004	1	0
Rohn-D9	Rohn Leg 2 Pipe	Pipe3EH	50.0	35.32	23.14	Rohn-L83P	5.176 W+I -60 deg	103.200	0.000	0.000	1.000	1.000	45.84	5.004	1	0
Rohn-D10	Rohn Leg 3 Pipe	Pipe3EH	50.0	55.88	35.74	Rohn-L82P	88.704 W+I -60 deg	124.200	0.000	0.000	1.000	1.000	54.04	6.655	1	0
Rohn-D11	Rohn Leg 4 Pipe	Pipe3EH	50.0	78.92	55.03	Rohn-L81P	131.366 W+I -60 deg	171.600	0.000	0.000	1.000	1.000	43.23	6.655	1	0
Rohn-D12	Rohn Leg 5 Pipe	Pipe3EH	50.0	91.59	49.55	Rohn-L80P	139.313 W+I -60 deg	201.300	0.000	0.000	1.000	1.000	34.10	10.008	1	0
Rohn-D13	Rohn Leg 6 Pipe	Pipe3EH	50.0	91.59	51.91	Rohn-L79P	184.617 W+I -60 deg	236.400	0.000	0.000	1.000	1.000	26.10	10.008	1	0
Rohn-D14	Rohn Leg 7 Pipe	Pipe3EH	50.0	74.74	49.93	Rohn-L78P	196.926 W+I -60 deg	295.800	0.000	0.000	1.000	1.000	26.10	10.008	1	0
Rohn-D15	Rohn Leg 8 Pipe	Pipe3EH	50.0	13.25	4.59	Rohn-L77P	0.820 W+I -90 deg	13.392	0.000	0.000	0.500	0.500	7.505	0.000	0	0

URS Connecticut - Butternut hollow greenwich, ct

SNB-D1	SNB Diagonal 1	SAC	2X2X0.3125	36.0	14.26	14.11	SNB-DA71	2.557W+I -90 de	20.340	16.200	13.594	15.579	7.240	1	1.000	0.6875
SNB-D2	SNB Diagonal 2	SAC	2X2X0.25	36.0	21.74	21.85	SNB-DB62	3.168W+I 90 deg	16.707	16.200	10.875	12.703	8.011	1	1.000	0.6875
SNB-D3	SNB Diagonal 3	SAC	2.5X2.5X0.3125	36.0	47.49	37.98	SNB-DB62	6.883W+I 90 deg	27.082	16.200	13.594	16.992	11.412	1	1.000	0.6875
SNB-D4	SNB Diagonal 4	SAC	3X3X0.5	36.0	41.27	40.90	SNB-DB22	8.834W+I -90 deg	52.336	16.200	21.750	27.187	11.784	1	1.000	0.6875
SNB-D5	SNB Diagonal 5	SAC	4X4X0.625	36.0	27.59	27.59	SNB-DB31	8.828W+I -90 deg	72.726	24.000	26.100	33.625	15.529	1	1.000	0.8125
SNB-D6	SNB Diagonal 6	SAC	4X4X0.625	36.0	37.59	37.59	SNB-DB42	12.030W+I 90 deg	89.222	24.000	32.625	40.781	17.700	1	1.000	0.8125
SNB-D7	SNB Diagonal 7	SAC	5X5X0.625	36.0	70.14	64.73	SNB-D142	21.382W+I 90 deg	116.410	24.000	35.625	40.781	18.841	1	1.000	0.8125
SNB-D11	SNB Leg 1	Pipe	P3-437	36.0	12.71	9.00	SNB-LA41	10.888W+I 60 deg	90.720	0.000	0.000	0.000	5.004	0	0.000	0
SNB-D12	SNB Leg 2	Pipe	P4-494	36.0	50.51	36.43	SNB-LD32	65.182W+I -60 de	134.136	0.000	0.000	0.000	6.665	0	0.000	0
SNB-D13	SNB Leg 3	Pipe	Pipe5EH	36.0	81.46	63.29	SNB-LD32	104.259W+I -60 de	123.552	0.000	0.000	0.000	6.665	0	0.000	0
SNB-D14	SNB Leg 4	Pipe	P6-562	36.0	81.38	59.10	SNB-LF22	182.124W+I -60 de	231.120	0.000	0.000	0.000	10.008	0	0.000	0
SNB-D15	SNB Leg 5	Pipe	Pipe8XS	36.0	92.32	70.43	SNB-LF22	259.624W+I -60 de	276.480	0.000	0.000	0.000	10.008	0	0.000	0
SNB-D16	SNB Leg 6	Pipe	Pipe10XS	36.0	84.80	63.72	SNB-LF22	295.427W+I -60 de	347.759	0.000	0.000	0.000	10.008	0	0.000	0
Connect	Connect Towers	Big	0.1X0.1X1	36.0	0.03	0.03	Connect IP	7.770 W+I 0 deg	17279.973	0.000	0.000	0.000	2.002	0	0.000	0
SNB-H1	SNB Horizontal 1	Pipe	P3-425	36.0	1.70	1.70	SNB-H4P	2.009W+I -60 de	88.668	0.000	0.000	0.000	8.132	0	0.000	0
SNB-H2	SNB Horizontal 2	Pipe	P4-494	36.0	5.76	5.76	SNB-H91	10.307W+I -60 de	134.136	0.000	0.000	0.000	14.944	0	0.000	0
Rohn-D8	Rohn Diagonal 8	SAC	2X2X0.375	36.0	60.12	24.34	Rohn-DB7P	5.258 W+I 0 deg	23.973	16.200	16.312	19.055	11.238	1	1.000	0.6875

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W+I -90 deg	95.44	Rohn-DB62	Angle
W+I -60 deg	84.36	Rohn-DB62	Angle
W+I 0 deg	98.21	Rohn-DB61	Angle
W+I 60 deg	83.10	Rohn-DB61	Angle
W+I 90 deg	96.17	Rohn-DB51	Angle
DL + Ice Only	30.13	SNB-D111	Angle

*** Weight of structure (lbs): 62797.0
 Weight of Angles*Section DLF: 10485.0
 Weight of Equipment: 73282.0
 Total:

*** End of Report

CONNECTION BETWEEN TOWERS EVALUATION

36924454
SAI-067 (Rev 1)

180' Self Supporting Tower with Stack-N-Bolt System
Greenwich, CT

11/16/2011



Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich		Project No.	SAI-067 (Rev 2)		Sheet 1 of 1		
	Tower Connection			KAB				
	Description			Date 11/16/11				
	Checked by			Date				

Bolt Diameter

$$Dia_{bolt} := \frac{3}{4} \text{ in}$$

Bolt Shear Capacity

$$Capacity_{bolt} := 5.3 \text{ kip} \quad \text{Per AISC 9th Edition p. 4-5 for 3/4" A325 slip critical bolt}$$

Shear Plane Area

$$Area_{plate} := \frac{3}{8} \text{ in} \cdot \left(\frac{3}{4} \text{ in} + 1 \text{ in} \right)$$
$$Area_{plate} = 0.6563 \cdot \text{in}^2$$

Yield Strength of Plate

$$Fy_{plate} := 36 \text{ ksi}$$

Plate Capacity

$$Capacity_{plate} := Area_{plate} \cdot Fy_{plate}$$
$$Capacity_{plate} = 23.625 \cdot \text{kip}$$

U-Bolt Size

$$Dia_{ubolt} := \frac{1}{2} \text{ in}$$

U-Bolt Area

$$Area_{ubolt} := 2 \cdot \pi \cdot \left(\frac{Dia_{ubolt}}{2} \right)^2$$
$$Area_{ubolt} = 0.3927 \cdot \text{in}^2$$

$$Fy_{ubolt} := 58 \text{ ksi}$$

$$Capacity_{ubolt} := Area_{ubolt} \cdot Fy_{ubolt}$$

$$Capacity_{ubolt} = 22.7765 \cdot \text{kip}$$

Connection Capacity

$$Capacity_{connection} := \min(Capacity_{bolt}, Capacity_{plate}, Capacity_{ubolt})$$

$$Capacity_{connection} = 5.3 \cdot \text{kip}$$

Max Connection Spacing

$$Spacing := 5 \text{ ft}$$

Connection Capacity per Foot

$$Capacity_{LF} := \frac{Capacity_{connection}}{Spacing}$$
$$Capacity_{LF} = 1.06 \cdot \frac{\text{kip}}{\text{ft}}$$

Max Connection Force

$$F_{max} := 7.77 \text{ kip}$$

Connection Spacing in PLS-Tower

$$Spacing_{PLS, Tower} := 10 \text{ ft}$$

Connection Force per Foot

$$Force_{LF} := \frac{F_{max}}{Spacing_{PLS, Tower}}$$

$$Force_{LF} = 0.777 \cdot \text{kip}$$

Percent Capacity

$$Percent_{capacity} := \frac{Force_{LF}}{Capacity_{LF}}$$

$$Percent_{capacity} = 73.3\%$$

Note: 1/3 increase in allowable stress per TIA/EIA-222-F is not included in these calculations

FOUNDATION EVALUATION

36924454
SAH-067 (Rev 1)

180' Self Supporting Tower with Stack-N-Bolt System
Greenwich, CT

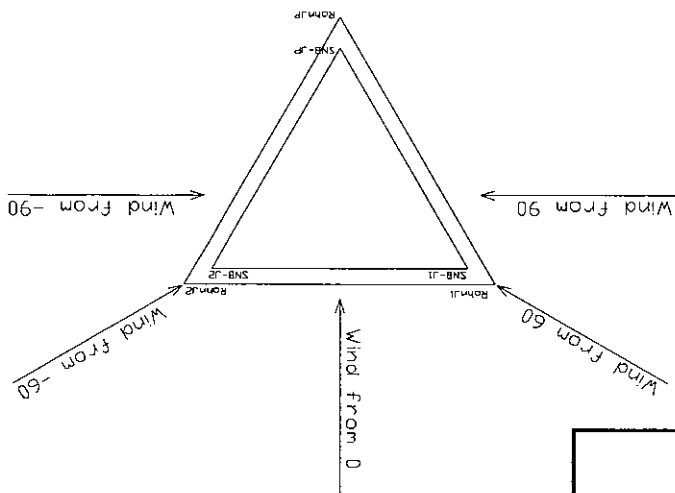
11/16/2011

Overturning Moment Calculation

Load Case	Joint Label	Vert. Tower Forces (k)	Leg Moment Arm (ft)	Moment (ft-k)	Total Moment (ft-k)
W+I -90 deg	RohnJP	-0.01	0.00	0.00	4988.4
W+I -90 deg	SNB-JP	0.01	0.00	0.00	
W+I -90 deg	RohnJ1	196.47	5.71	1121.84	
W+I -90 deg	RohnJ2	-196.59	-5.71	1122.53	
W+I -90 deg	SNB-J1	-291.36	4.71	1372.31	4988.4
W+I -90 deg	SNB-J2	291.36	-4.71	1371.69	
W+I -60 deg	RohnJP	112.57	3.30	371.48	4950.4
W+I -60 deg	SNB-JP	166.89	2.72	453.94	
W+I -60 deg	RohnJ1	-225.29	-6.59	1484.66	
W+I -60 deg	SNB-J1	-333.62	-5.44	1814.89	
W+I -60 deg	RohnJ2	-116.08	-3.30	383.06	5104.9
W+I -60 deg	SNB-J2	-172.14	-2.72	468.22	
W+I -60 deg	RohnJP	112.59	3.30	371.55	
W+I -60 deg	SNB-JP	166.88	2.72	453.91	
W+I -60 deg	RohnJ1	-225.29	-6.59	1484.66	4950.5
W+I -60 deg	SNB-J1	-333.63	-5.44	1814.95	
W+I -60 deg	RohnJ2	-112.58	3.30	371.51	
W+I -60 deg	SNB-J2	166.89	2.72	453.94	
W+I -90 deg	RohnJP	-0.01	0.00	0.00	4988.4
W+I -90 deg	SNB-JP	0.01	0.00	0.00	
W+I -90 deg	RohnJ1	196.47	5.71	1121.84	
W+I -90 deg	RohnJ2	-196.59	-5.71	1122.53	
W+I -90 deg	SNB-J1	-291.23	4.71	1371.69	4988.4
W+I -90 deg	SNB-J2	291.36	-4.71	1372.31	
W+I -90 deg	RohnJP	-0.01	0.00	0.00	
W+I -90 deg	SNB-JP	0.01	0.00	0.00	

Vertical forces taken from PLS-Tower output with DL + Ice Only case subtracted from Vertical Tower Forces

Dimensions taken from CAD drawing





Job

180' ROHN SSV Tower w/ SNB Reinf. - Greenwich

Project No.

SAI-067 (Rev 2)

Page

of

Sheet

1 of 4

Date

11/16/11

Computed by

KAB

Date

11/16/11

Checked by

PIER AND MAT FOUNDATION ANALYSIS - 3 PIERS

TOWER FORCES:

Moment Caused by Tower $M_t = 5105\text{-kip}\cdot\text{ft}$
Shear at Base of Tower $S_t = 112\text{-kip}$
Height of Tower $H_t = 180\text{-ft}$
Width of Tower at Base $W_t = 22.833\text{-ft}$
Weight of Tower $W_T = 1.0\text{-kip}$

Moment Caused by Tower $M_t = 5105\text{-kip}\cdot\text{ft}$
Width of Footing $W_f = 36.5\text{-ft}$
Overall Depth of Footing $D_f = 3.5\text{ft}$
Thickness of Footing $T_f = 6.0\text{-ft}$

NOTE: Weight of Tower is incorporated into the other loads listed above and is therefore set equal to one for programming.

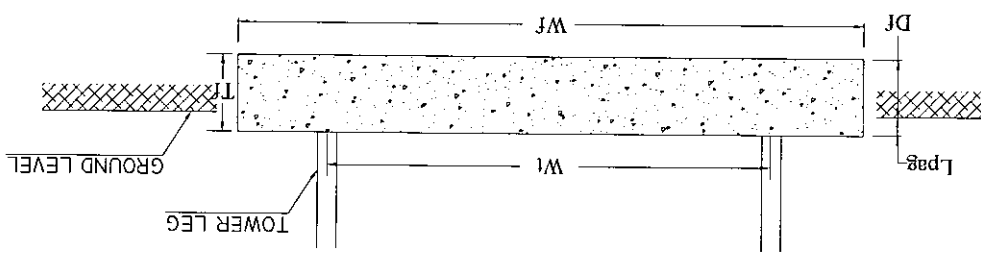
MATERIAL PROPERTIES:

Compressive Strength of Concrete $f_c = 3000\text{-psi}$
Yield Strength of Steel Reinforcement $f_y = 60000\text{-psi}$
Internal Friction Angle of Soil $\phi_s = 36\text{-deg}$
Allowable Bearing Capacity $q_s = 8000\text{-psf}$
Coefficient of Lateral Soil Pressure $K_p = \frac{1 + \sin(\phi_s)}{1 - \sin(\phi_s)}$
 $K_p = 3.8518$

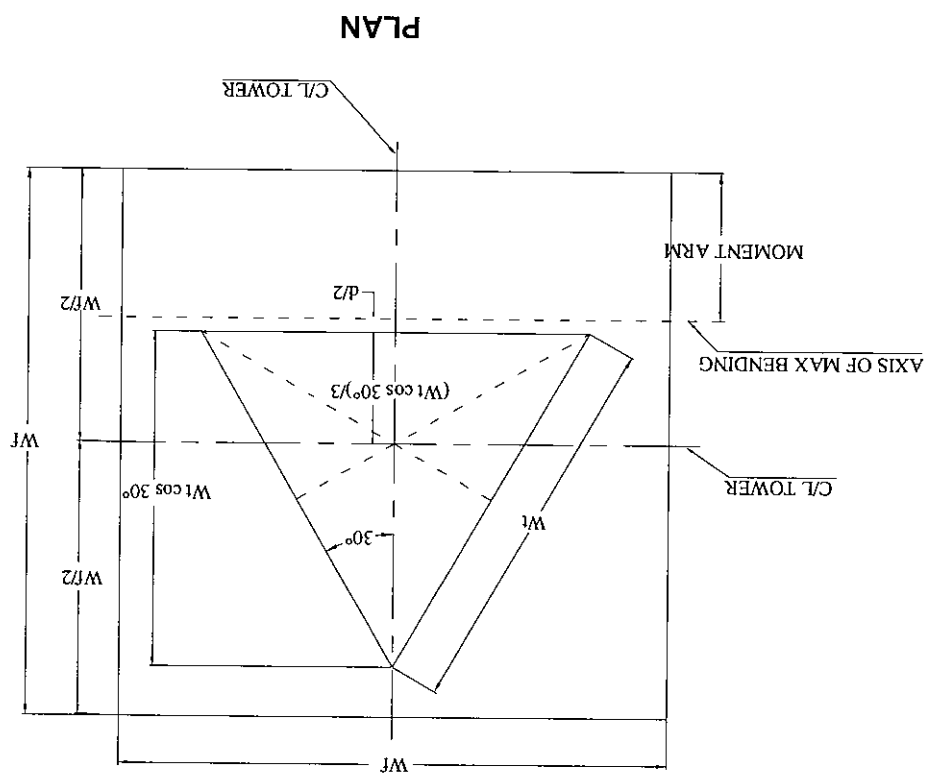
Unit Weight of Soil $\gamma_s = 130\text{-pcf}$
Unit Weight of Concrete $\gamma_c = 150\text{-pcf}$
Depth to Neglect $n = 0\text{-ft}$
Cohesion of Clay Type Soil $c_m = 0\text{-ksf}$
Note: Use 0 for Sandy Soil

What is Position of Center of Tower with respect to Center of Pad?
1=Offset
2=Not Offset
 $Pos_{tower} = 2$

FOUNDATION OVERVIEW



ELEVATION



PLAN

Job	180' ROHN SSV Tower w/ SNB Reint. - Greenwich	Project No.	SAL-067 (Rev 2)	Sheet	3 of 4
Description	Foundation Analysis	Computed by	KAB	Date	11/16/11
		Checked by		Date	

STABILITY OF FOOTING

Factor of Safety Req'd: $FS_{req} := 2.0$

Passive Pressure:

$$P_{pn} := K_p \cdot \gamma_s \cdot n + c \cdot 2 \cdot \sqrt{K_p}$$

$$P_{pl} := K_p \cdot \gamma_s \cdot (D_f - T_f) + c \cdot 2 \cdot \sqrt{K_p}$$

$$P_{top} := \text{if}[n > (D_f - T_f), P_{pl}, P_{pn}]$$

$$P_{bot} := K_p \cdot \gamma_s \cdot D_f + c \cdot 2 \cdot \sqrt{K_p}$$

$$P_{ave} := \frac{P_{top} + P_{bot}}{2}$$

Shear:

$$T_{pp} := \text{if}[n < (D_f - T_f), T_f, (D_f - n)]$$

$$A_{pp} := W_f \cdot T_{pp}$$

$$S_u := P_{ave} \cdot A_{pp}$$

$$W_{Tc} := (W_f \cdot T_f) \cdot \gamma_c$$

$$W_{Ts1} := 0$$

$$W_{Ts2} := \left[\frac{(D_f - n)^2 \cdot \tan(\phi_s)}{2} \cdot W_f \cdot \gamma_s \right]$$

Weight of Soil
Wedge at back face:
Distance to center of
Tower Leg from Edge
of Footing:

$$X_{l1} := \frac{W_f}{W_f \cdot \cos(30 \cdot \text{deg})} - \frac{2}{3}$$

$$X_{l2} := \frac{W_f}{W_f \cdot \cos(30 \cdot \text{deg})} - \frac{2}{3}$$

$$X_{l1} := \text{if}[\text{Pos}_{lower} = 1, X_{l1}, X_{l2}]$$

$$X_{l1} = 11.6587 \cdot \text{ft}$$

Additional Offset of
Footing:

$$X_{oH1} := \frac{W_f}{W_f \cdot \cos(30 \cdot \text{deg})} - \left(\frac{2}{3} + X_{l1} \right)$$

$$X_{oH2} := 0$$

$$X_{oH} := \text{if}[\text{Pos}_{lower} = 1, X_{oH1}, X_{oH2}]$$

$$X_{oH} = 0 \cdot \text{ft}$$

Resisting Moment:

$$M_r := (W_{Tc} + W_{Ts1}) \cdot \frac{2}{W_f} + W_{Ts2} \cdot \left(\frac{2}{W_f} + X_{oH} \right) + S_u \cdot \frac{2}{3} + W_{Ts2} \cdot \left(W_f + \frac{2}{3} \right)$$

$$M_r = 22819.678 \cdot \text{kip} \cdot \text{ft}$$

Overturning Moment:

$$M_{ot} := M_l + S_l \cdot (T_f) + W_{Tl} \cdot X_{oH}$$

$$M_{ot} = 5777 \cdot \text{kip} \cdot \text{ft}$$

Factor of Safety:

$$FS := \frac{M_r}{M_{ot}}$$

$$FS = 3.9501$$

SafetyCheck := if[FS > FS_{req}, "Okay", "No Good"]

SafetyCheck = "Okay"

BEARING PRESSURE CHECK:

Pressure Applied:

$$LOAD_{tot} := WT_c + WT_{s1} + WT_t$$

$$LOAD_{tot} = 1200.025 \text{ kip}$$

$$A_{mat} := W_f^2$$

$$S := \frac{W_f^3}{6}$$

$$P_{max} := \frac{LOAD_{tot}}{M_{ot}} + \frac{A_{mat}}{S}$$

$$P_{max} = 1.6136 \text{ ksf}$$

$$P_{min} := \frac{LOAD_{tot}}{M_{ot}} - \frac{A_{mat}}{S}$$

$$P_{min} = 0.1879 \text{ ksf}$$

$$MaxPressure := \text{if}(P_{max} < q_s, \text{"Okay"}, \text{"No Good"})$$

$$MaxPressure = \text{"Okay"}$$

$$MinPressure := \text{if}(P_{min} \geq 0, (P_{min} < q_s), \text{"Okay"}, \text{"No Good"})$$

$$MinPressure = \text{"Okay"}$$

Distance to Resultant of Pressure Distribution:

$$X_p := \frac{P_{max}}{1} \cdot \frac{P_{max} - P_{min}}{3} \cdot \frac{W_f}{P_{max} - P_{min}}$$

$$X_p = 13.7706 \text{ ft}$$

Distance to Kern:

$$X_k := \frac{W_f}{3}$$

$$X_k = 12.1667 \text{ ft}$$

Since Resultant Force is Not in Kern, Area to which Pressure is Applied Must be Reduced.

Eccentricity:

$$e := \frac{M_{ot}}{LOAD_{tot}}$$

$$e = 4.8141$$

Adjusted Soil Pressure:

$$q_a := \frac{3 \cdot W_f \left(\frac{W_f}{2} - e \right)}{2 \cdot LOAD_{tot}}$$

$$q_a = 1.6313 \text{ ksf}$$

Revised Maximum:

$$q_{max} := \text{if}(X_p > X_k, q_a, P_{max})$$

$$q_{max} = 1.6136 \text{ kip}$$

$$PressureCheck := \text{if}(q_{max} < q_s, \text{"Okay"}, \text{"No Good"})$$

$$PressureCheck = \text{"Okay"}$$

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 1 BUTTERNUT HOLLOW ROAD
 GREENWICH, CT 06830
 LATITUDE: 41°06'59.7209 N 41° 5' 49.1" N
 LONGITUDE: -71°16'05.729 W -73° 38' 10.90" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC#: 886-315-5600



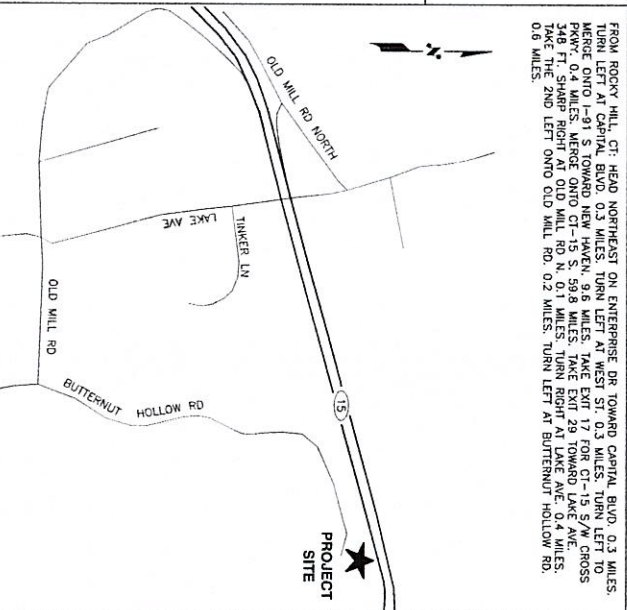
SITE NUMBER: CT2129

SITE NAME: GREENWICH - EAST

DRAWING INDEX

	REV
T-1 TITLE SHEET	1
GN-1 GENERAL NOTES	1
A-1 COMPOUND PLAN & EQUIPMENT ROOM PLAN	1
A-2 ANTENNA LAYOUT AND ELEVATION	1
G-1 PLUMBING DIAGRAM & DETAILS	1

VICINITY MAP



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. THE USER AND USER'S EMPLOYER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THEIR LAWFULLY AUTHORIZED RESOURCES AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSIBLE BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT COVERED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



72 HOURS
 BEFORE YOU DIG



CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT



22 KEMPSON DRIVE
 SALEM, NH 03079

SITE NUMBER: CT2129
SITE NAME: GREENWICH - EAST
 1 BUTTERNUT HOLLOW ROAD
 GREENWICH, CT 06830
 FAIRFIELD COUNTY



500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

NO.	DATE	REVISIONS
1	04/03/11	ISSUED FOR CONSTRUCTION
2	03/23/11	ISSUED FOR REVIEW

DESIGNED BY: DC
 DRAWN BY: JC
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

AT&T	TITLE SHEET
1	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED FOR SITE) FOR COMPLIANCE WITH THE NEC (AS ADOPTED BY THE CITY OF SALEM) AND THE STATE OF NEW HAMPSHIRE (AS ADOPTED BY THE CITY OF SALEM) AND GENERAL COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.) LIGHTNING PROTECTION AND SURGE PROTECTION STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR DEFICIENCIES TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AS POWER GROUND) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM THE FOLLOWING:
 - a. FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND A1) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUFFICIENTLY GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
 - b. REQUIRED RACEWAY SHALL NOT BE USED AS THE NEC. REQUIRED EQUIPMENT GROUND CONDUCTOR, STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO ITS EQUIPMENT.
 - c. EACH B15 CEMENT FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE. 6 AWG STRANDED COPPER OR LARGER FOR RIBBON B15 2 AWG STRANDED COPPER FOR OUTDOOR B15.
 - d. EXISTING WIRING SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
 - e. APPROVED ANTIOXIDANT COMINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
 - f. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
 - g. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
 - h. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
 - i. METAL CONDUIT SHALL BE WAGE ELECTRICALY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
 - j. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER BONDING TO THE GROUND RING AND ALL EXISTING STRUCTURES HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER BONDING TO THE GROUND RING SHALL BE BONDING TO THE GROUND RING USING #2 AWG SOLID BARE THINDED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR - SA
 - SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY AGENCY, CITY, STATE, OR FEDERAL GOVERNMENT. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "TIGHTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND TIGHTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TIE-INS, AND SHALL SUBMIT A ROUTING PLAN TO THE CONTRACTOR. THE PLAN SHALL SHOW THE ACTUAL ROUTING WITH THE CONTRACTOR'S CONFIRMATION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAYMENTS, CURBS, LANDSCAPING, UTILITIES, AND OTHER EXISTING CONDITIONS. SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, SUCH AS CONDUIT, WIRE, AND OTHER MATERIALS, FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE 4000 PSI STRENGTH, 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAIL, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A572 (F_y = 36 ksi) UNLESS OTHERWISE NOTED. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED TO WEATHER RESISTANCE AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH LOCAL SPECIFICATIONS AND GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES.
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING STRUCTURES SHALL BE VERIFIED BY THE SUBCONTRACTOR. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK SHALL BE SCHEDULED TO AVOID DISRUPTION OF NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK. EXPOSED WORKERS TO DANGER, PERSONAL OR EXPOSURE. WORKERS SHOULD BE ADVISED TO BE AWARE OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:
 - SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING CODES, WITH THE EXCEPTION OF THOSE HAVING JURISDICTION (AND) FOR THE LOCATION THE EDITION OF THE BUILDING CODE SHALL GOVERN THE DESIGN.
 - BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT EDITION.
 - ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
 - LIGHTING CODE: REFER TO ELECTRICAL DRAWINGS
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL
 - ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES, REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE CONTRACTOR SHALL CONSULT WITH THE CONTRACTOR'S ENGINEER, WHERE THERE IS A CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

ACQ.	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MOB	MASTER GROUND BUS	TBD	TO BE DETERMINED
BOW	BARE COPPER WIRE	MIN	MINIMUM	TBR	TO BE REMOVED
BTS	BASE TRANSCENDER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBR	TO BE REMOVED
EQ	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		



22 KERNAN DRIVE
SALEM, NH 03079

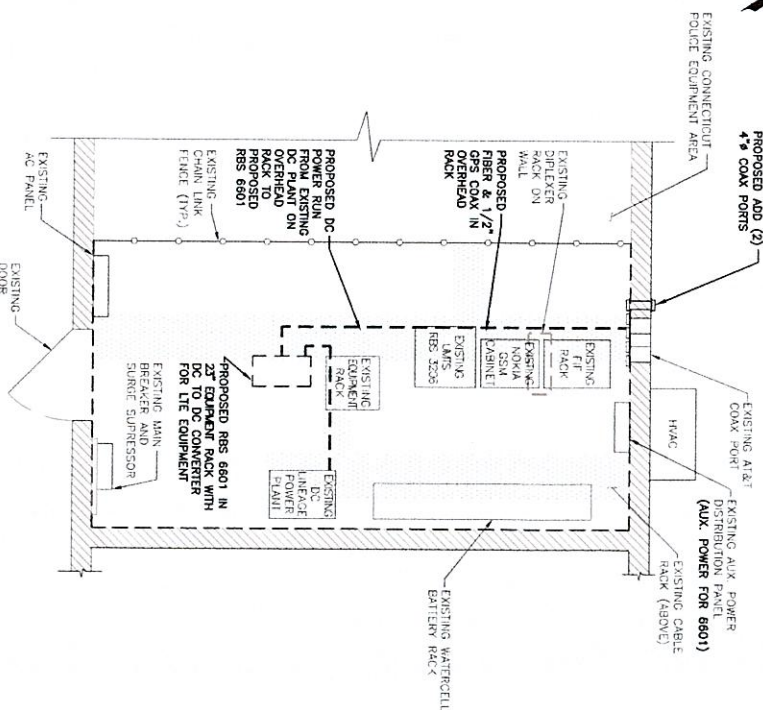
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SITE NAME: GREENWICH - EAST
1 BUTTERNUT HOLLOW ROAD
GREENWICH, CT 06030
FAIRFIELD COUNTY



500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	ISSUED FOR REVIEW	REVISIONS	BY	CHECKED BY
1	11/02/11	ISSUED FOR CONSTRUCTION			
2	01/23/11	ISSUED FOR REVIEW			

AT&T
GENERAL NOTES
(11E)
DRAWING NUMBER
GN-1
1



EQUIPMENT PLAN

SCALE: 1/2"=1'-0"



500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL CT 06067

[illegible]

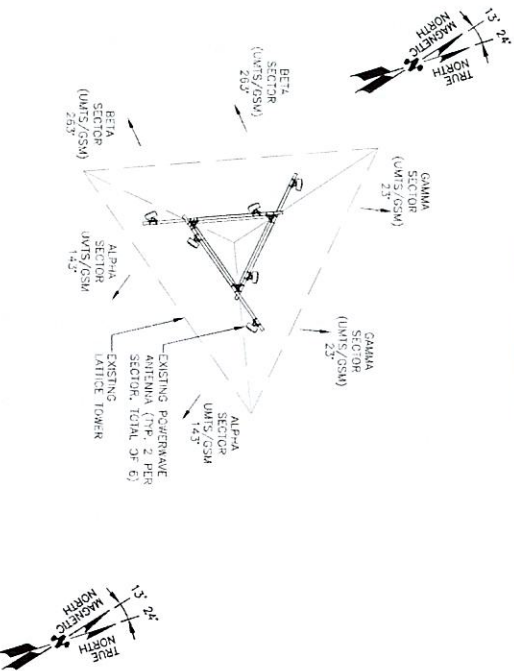
AT&T

COMPOUND PLAN
(LTE)

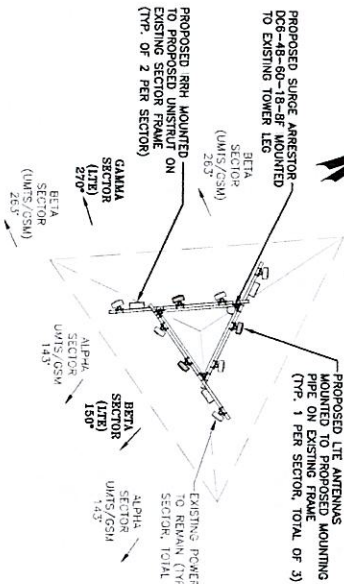
1	REC
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NOTE:
AN ANALYSIS FOR THE CAPACITY
OF THE ANTENNA SYSTEMS
TO SUPPORT THE PROPOSED
EQUIPMENT SHALL BE DETERMINED
PRIOR TO CONSTRUCTION.

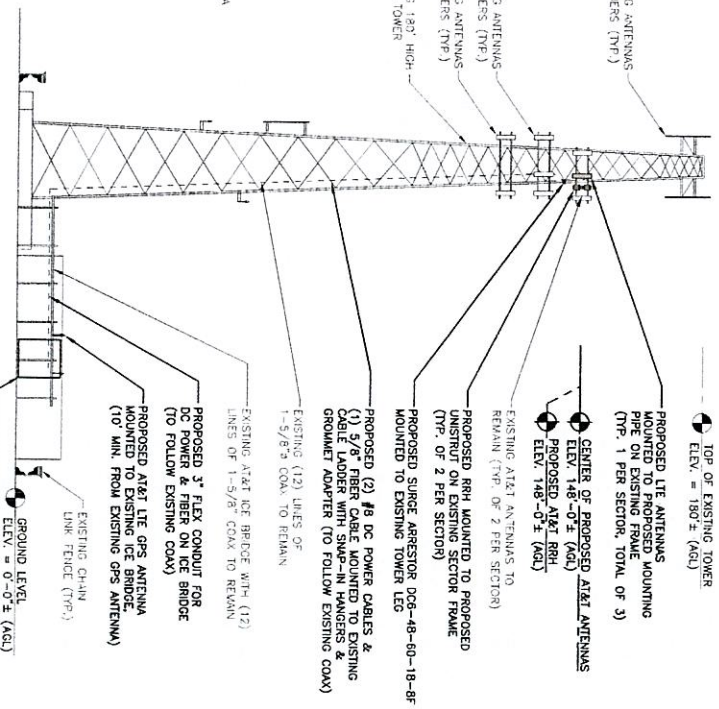
NOTE:
REFER TO THE FINAL RF DATA
SHEET FOR FINAL ANTENNA
SETTINGS.



EXISTING ANTENNA PLAN
SCALE: N.T.S.



PROPOSED ANTENNA PLAN
SCALE: N.T.S.



NORTH ELEVATION
SCALE: 1/16"=1'-0"

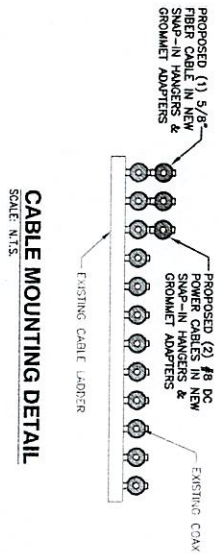
Hudson
Design Group
22 KEEPMON DRIVE
SALEM, NH 03079
TEL: 603-883-1333
FAX: 603-883-1334

SAI
Communications
22 KEEPMON DRIVE
SALEM, NH 03079

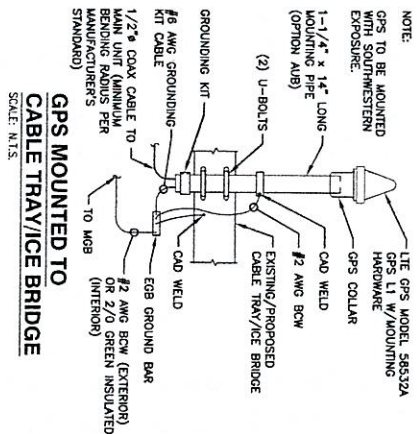
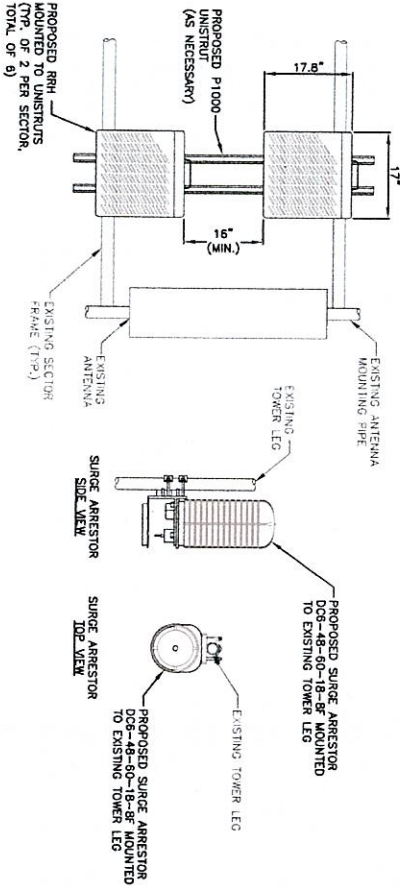
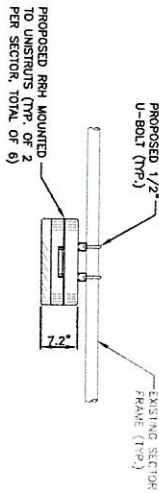
SITE NUMBER: CT2129
SITE NAME: GREENWICH - EAST
1 BUTTERNUT HOLLOW ROAD
GREENWICH, CT 06830
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

AT&T	
1	04/03/11 ISSUED FOR CONSTRUCTION
2	03/23/11 ISSUED FOR REVIEW
3	04/03/11
4	04/03/11
5	04/03/11
6	04/03/11
7	04/03/11
8	04/03/11
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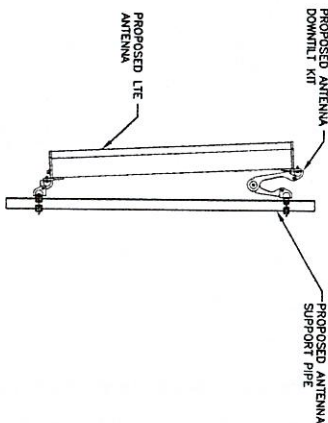


CABLE MOUNTING DETAIL
SCALE: N.T.S.



GPS MOUNTED TO CABLE TRAY/ICE BRIDGE
SCALE: N.T.S.

PROPOSED ANTENNA DETAIL
SCALE: 1\"/>



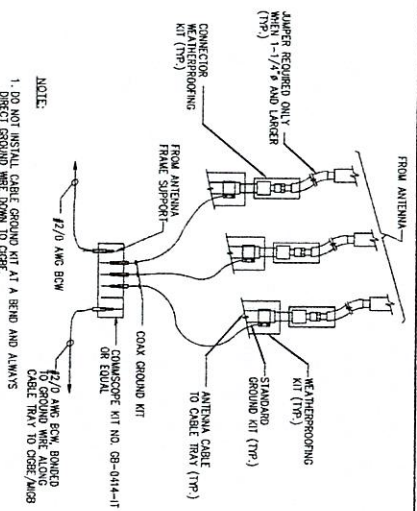
Hudson
Design Group
1000 GOSWICK DRIVE
NEWTON, MA 02459
TEL: 781-552-4444
FAX: 781-552-4444

SIAT
communications
22 KEMAYON DRIVE
SALEM, NH 03079

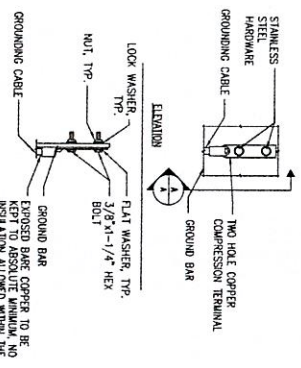
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SITE NAME: GREENWICH - EAST
1 BUTTERNUT HOLLOW ROAD
GREENWICH, CT 06030
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

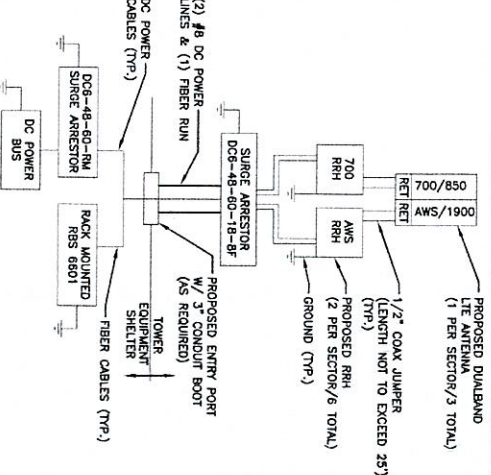
NO.	DATE	REVISIONS	DESIGNED BY: DC	DRAWN BY: JS	DATE
1	04/03/11	ISSUED FOR CONSTRUCTION			
0	02/23/11	ISSUED FOR REVIEW			
SCALE: AS SHOWN					
AT&T ANTENNA LAYOUT AND ELEVATION (LIE)					2/29/01
DRAWING NUMBER: A-2					1



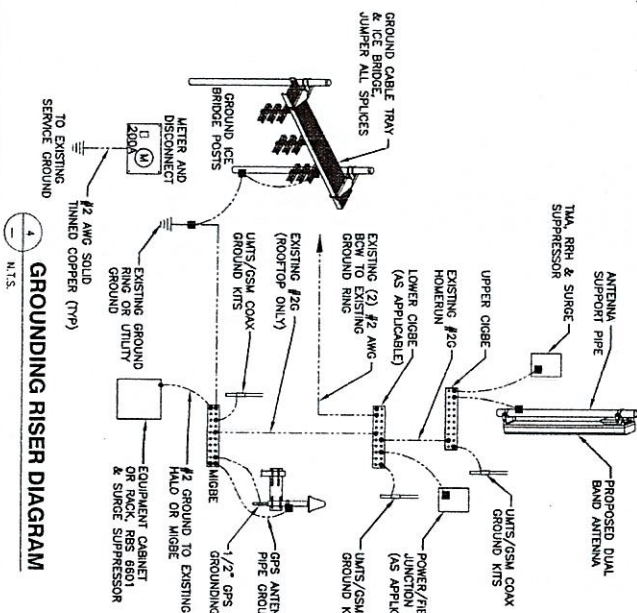
1
GROUND WIRE TO GROUND BAR CONNECTION DETAIL
N.T.S.



2
TYPICAL GROUND BAR CONNECTION DETAIL
N.T.S.

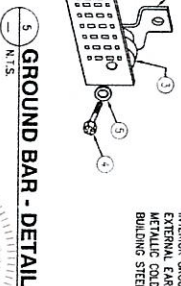


3
PLUMBING DIAGRAM
N.T.S.



4
GROUNDING RISER DIAGRAM
N.T.S.

WIRELESS SOLUTIONS INC.		
NO.	REQ.	DESCRIPTION
1	1	HLG-04-0-S SOLID CND. BAR (20\"/>



5
GROUND BAR - DETAIL
N.T.S.

EARTH GROUND CONDUCTOR, TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "T" - SURGE PROTECTORS

CABLE ENTRY PORTS (MATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
GROUNDING FRAMEWORK (IF AVAILABLE) (#2)
GROUNDING FRAMEWORK (IF AVAILABLE) (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECEIVER FRAMES

SECTION "X" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BARRIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

Hudson
Design Group, Inc.
1000 COMMERCIAL STREET
SALEM, NH 03079
TEL: 603-883-0333
FAX: 603-883-0334

SLAT
COMMUNICATIONS

22 KEMANTON DRIVE
SALEM, NH 03079

at&t

500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

SITE NUMBER: CT7129
SITE NAME: GREENWICH - EAST
1 BUTTERNUT HOLLOW ROAD
GREENWICH, CT 06330
FAIRFIELD COUNTY

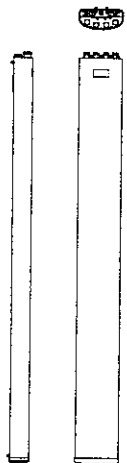
AT&T

AT&T PLUMBING DIAGRAM & DETAILS
(11E)
G-1

DATE: 04/03/11
BY: DC
CHECKED: 04/03/11
REVISIONS: 01/23/11 ISSUED FOR REVIEW
SCALE: AS SHOWN
DESIGNED BY: DC
DRAWN BY: JG

For detailed patterns visit <http://www.powerwave.com/rpa/>.**ANTENNA PATTERNS***

*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

**MECHANICAL SPECIFICATIONS***

Frequency range (MHz)	698-894
Frequency band (MHz)	806-894
Gain (dB/dB)	14.8/12.7
Polarization	Dual Linear +/- 45
Nominal Impedance (Ω)	50
VSWR	< 1.5:1
Horizontal beam width, -3 dB (°)	66
Vertical beam width, -3 dB (°)	14.7
Electrical down tilt (°)	1 to 12
Side lobe suppression, vertical 1st upper (dB)	> 16
Isolation between inputs (dB)	> 16
Inter band isolation (dB)	> 30
Tracking, horizontal plane ±60° (dB)	< 2
First null tilt (dB)	< 0.8
Front to back ratio (dB) 180°±30° copolar	> 24
Front to back ratio (dB) 180°±30° total power	> 15
Cross polar discrimination (XPD) 0° (dB)	> 10
Cross polar discrimination (XPD) ±60° (dB)	> 15
Far field coupling	> 15
IM3, 2Tx@43dBm (dBc)	< -153
IM7, 2Tx@43dBm (dBc)	< -153
Power handling, average per input (W)	500
Power handling, average total (W)	1000

ELECTRICAL SPECIFICATIONS***P65-16-XLH-RR Dual Broadband Antennas**

POLARIZATION: Dual linear ±45°
 FREQUENCY (MHz): 698-894, 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65, 65
 GAIN (dB/dBd): 15.5/13.4 17.5/15.4
 TILT: -12, 0-8
 LENGTH: 72"

RRUS 11 – Dual PA RRU.

Technical Data

RBS6000

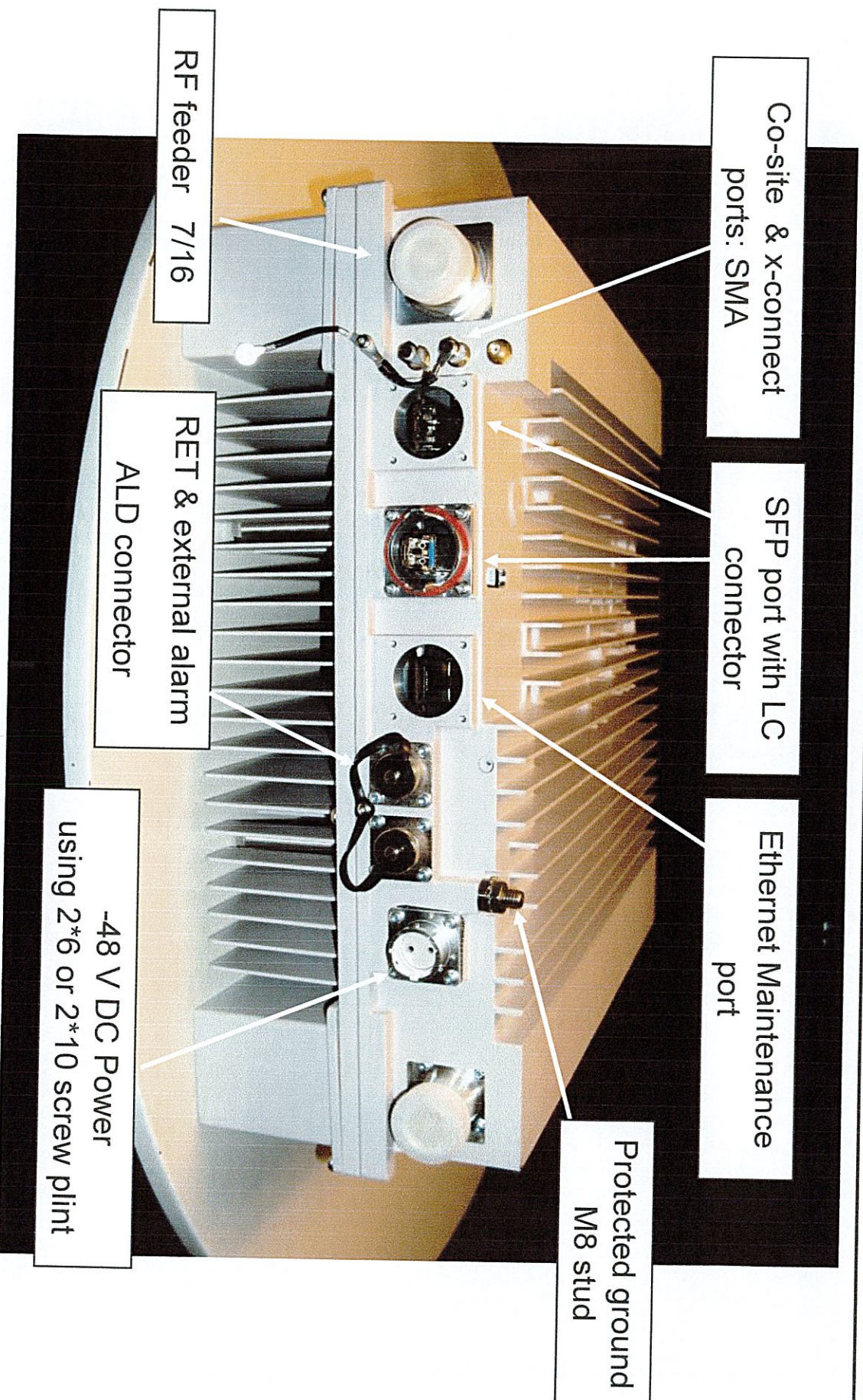
- › Multi standard
- › RF: 2x30 Watts
- › Carrier BW: 1.4 – 20 MHz
- › Alarms: 2
- › Dimensions (with sunshield):
 - Width: 17.0 in
 - Height: 17.8 in
 - Depth: 7.2 in
 - Weight: 55 lbs (Band 12)
50 lbs (Band 4)
- › Temperature: -40 to +131 F
- › Cooling: Self convection
- › Power: -48 VDC
- › Rec. fuse size 20 Amp
 - Rec. DC cable:
 - › 6 mm² up to 60 meters
 - › 10 mm² over 60 meters
 - › Shielded
- › Power Cons: 200 Watts typ.



RRUS-11 I/F



RBS6000



POWER

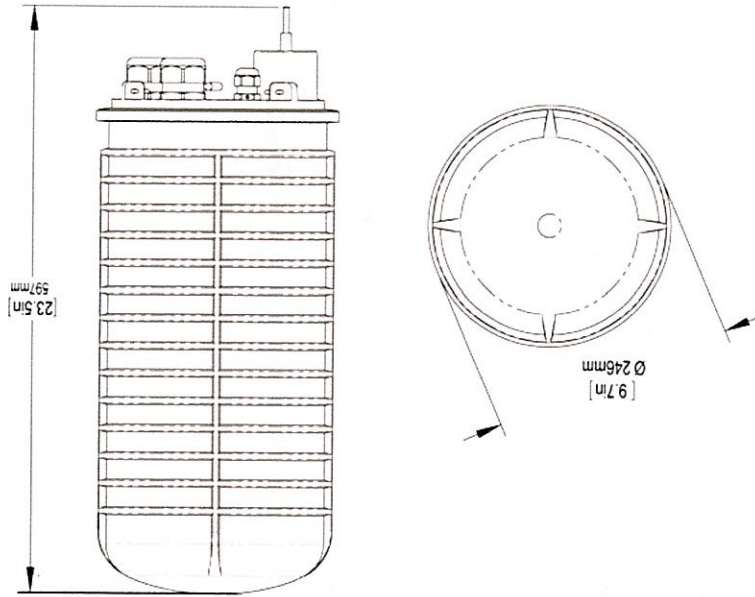
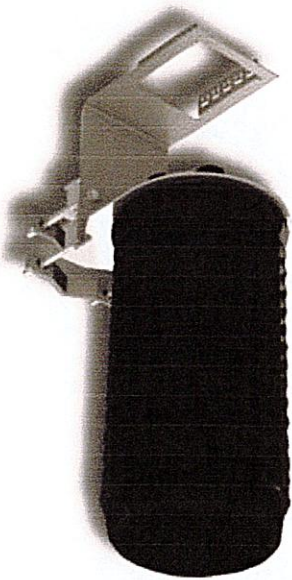
DC6-48-60-18-8F

DC Surge Suppression Solution

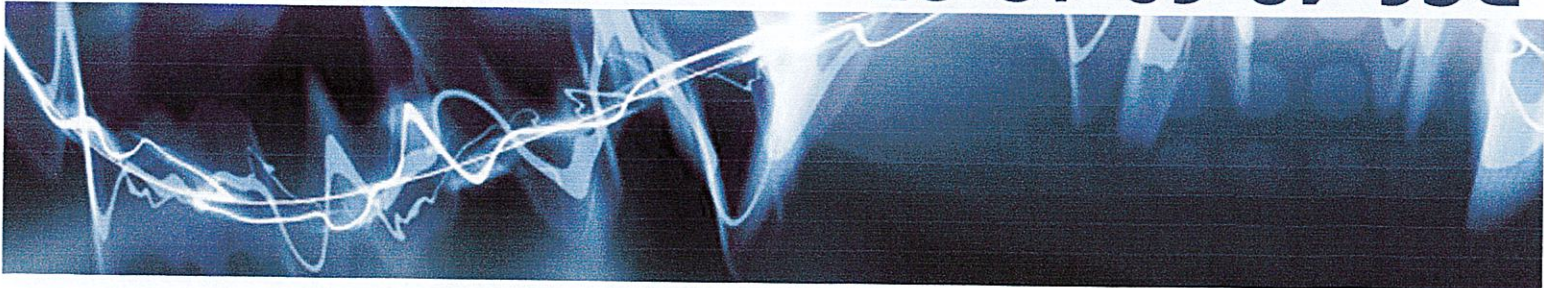
The DC6-48-60-18 is a dual chambered, DC surge suppression system for use in multi-circuit, Distributed Antenna Systems. The system will protect up to 6 Remote Radio Heads from voltage surges and lightning, and connect up to 18 fiber pairs. The system is enclosed in a NEMA 4 rated, waterproof enclosure.

FEATURES

- Protects up to 6 Remote Radio Heads, each with its own protection circuit.
- Flexible design allows for installation at the top of a tower for Remote Radio Head protection.
- Includes fiber connections for up to 18 pairs of fiber.
- LED indicators on individual circuits provide visual indication of suppressor status.
- Form 'C' relays allow for remote monitoring of the suppressor status.
- Patented Strikesorb technology provides over 60 kA of surge current capacity per circuit.
- Strikesorb suppression modules are fully recognized to UL 1449-3rd Edition Safety Standard, meeting all intermediate and high current fault requirements to facilitate use in OEM applications.
- Raycap recommends that DC protection system be installed within 2 meters or 6 feet of the radio.
- Dome design is lightweight and aerodynamic providing maximum flexibility for installation on top of towers.



Raycap



DC6-48-60-18-8F

DC Power Surge Protection

Electrical Specifications	
Model Number	DC6-48-60-18-8F
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I _n)	20 kA 8/20 μ s
Maximum Discharge Current (I _{max}) per NEMA LS-1	60 kA 8/20 μ s
Maximum Continuous Operating Voltage (U _c)	75 VDC
Voltage Protection Rating	400 V

Mechanical Specifications	
Suppression Connection Method	Compression lug, #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 68, 7m 72hrs
Operating Temperature	-40° C to + 80° C
Storage Temperature	-70° C to + 80° C
Cold Temperature Cycling	IEC 61300-2-22e -30° C to + 60° C 200 hrs @ 5 psi
Resistance to Aggressive Materials	CEI IEC 61073-2 including acids and bases
UV Protection	ISO 4892-2 Method A Xenon-Arc 2160 hrs
Weight	20 lbs without Mounting Bracket

STANDARDS

Strikesorb modules are compliant to the following Surge Protection Device (SPD) Standards:

- ANSI/UL 1449 - 3rd Edition
- IEEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11:2007)



Raycap

G02-00-068 REV 050610

Raycap, Inc. 806 W. Clearwater Loop • Post Falls • Idaho • 83854 • USA
Phone 208.777.1166 • Toll Free 800.890.2569 • Fax 208.777.4466 • www.raycapsurgeprotection.com

GS-07F-0435V

Certified to
ISO 9001:2000

