STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

March 15, 2011

Thomas J. Regan, Esq.
Brown Rudnick LLP
CityPlace I, 185 Asylum Street
Hartford, CT 06103

RE: **EM-SPRINT-NEXTEL-135-110210** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Attorney Regan:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated February 10, 2011. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Linda Roberts
Executive Director

LR/CDM/laf

c: The Honorable Michael A. Pavia, Mayor, City of Stamford
Norman Cole, Acting Land Use Bureau Chief, City of Stamford
American Tower Corporation

EM-SPRINT-NEXTEL-135-110210

BROWNRUDNICK

THOMAS J. REGAN
Direct Dial: (860) 509-6522
tregan@brownrudnick.com

CityPlace I
185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

Via Hand Delivery

February 10, 2011

Daniel F. Caruso, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification / Stamford @ 168 Catoona Lane

Dear Mr. Caruso:

On behalf of Sprint Nextel Corporation ("Sprint"), enclosed for filing are an original and five (5) copies of Sprint's Notice of Exempt Modification for a Facility located at the above-referenced site.

I also enclose herewith a check in the amount of $625.00 representing the filing fee.

I would appreciate it if you would date-stamp the enclosed copy of this transmittal letter and return it to the courier delivering this package.

If you have any questions, please feel free to contact me.

Very truly yours,

BROWN RUDNICK LLP

By: T Regan
Thomas J. Regan

Enclosures

cc w/ encl. via 1st Class Mail – Mayor Michael Pavia

40281288 v1 - REGANTJ - 025064/0018

EM-SPRINT-NEXTEL-135-110210

CONNECTICUT SI

ORIGINAL

In re:
Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 168 Catoona Lane, Stamford, Connecticut. : **EXEMPT MODIFICATION NO. _____**

February 10, 2011

RECEIVED
FEB 10 2011
CONNECTICUT
SITING COUNCIL

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Nextel Corporation ("Sprint") hereby gives notice to the Connecticut Siting Council ("Council") and the City of Stamford of Sprint's intent to make an exempt modification to an existing lattice tower (the "Tower") located at 168 Catoona Lane in Stamford, Connecticut. Specifically, Sprint plans to remove and replace existing antennas and install Tower Mounted Amplifiers ("TMA"). Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint's plans do not constitute a modification subject to the Council's review because Sprint will not change the height of the tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

Sprint is currently upgrading its existing installations throughout Connecticut. This upgrade is designed to enhance the performance of Sprint's network. Upon completion of the upgrades to Sprint's network, it will offer improved voice and data communications to residents and travelers in Connecticut. In order to accomplish the upgrade at this site, Sprint plans to remove and replace antennas, install TMA and install related electronic equipment at the base of the Tower.

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185 ASYLUM STREET
HARTFORD, CT 06103
(860) 509-6500

The Tower is a 300-foot lattice tower located at 168 Catoona Lane in Stamford, Connecticut (latitude 41.05 N, longitude -73.56 W). The Tower is owned by American Tower

Corporation. Multiple carriers are currently located on the Tower. Presently, Sprint has 9 antennas over three sectors located on the Tower with a centerline of 150 feet. Sprint's base station equipment is located adjacent to the base of the Tower. A site plan with the Tower specifications is attached.

Sprint's plans to remove and replace 3 of its existing antennas with 3 upgraded antennas (one per sector). Additionally, Sprint proposes to install 3 TMA on the Tower, one per sector. The new antennas and TMAs will have the same centerline as the existing antennas – 150 feet. Sprint will continue to utilize its existing coax cables. To confirm that the Tower can support these changes, Sprint commissioned American Tower Corporation to complete the Structural Analysis Report of the Tower (attached). According to the report dated January 13, 2011, "The tower and foundation can support the existing and proposed loading..." (Page 3, Structural Analysis Report).

Within the existing compound Sprint will install one MCPA cabinet on the existing steel platform that is located on the existing 8-foot by 11-foot (approximately) concrete pad. Hence, no increase in the size of the concrete pad is necessary. Excluding brief, minor, construction-related noise during the addition of the antennas and dishes and the installation of the equipment cabinets, the proposed changes to the Tower will not increase noise levels at the site.

The installation of the new antennas and the TMAs will not adversely impact the health and safety of the surrounding community or the people working on the Tower. The total radio frequency exposure measured around the Tower will be below the National Council on Radiation Protection and Measurements' ("NCRP") standard adopted by the Federal Communications Commission ("FCC"). A cumulative power density analysis indicates that together, all of the

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antennas on the Tower will emit 22.34% of the NCRP's standard for maximum permissible exposure. Therefore, the power density levels will be below the FCC mandated radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

In conclusion, Sprint's proposed plan to remove and replace antennas, install 3 TMAs and associated base station equipment does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See* Conn. Agencies Regs. § 16-50j-72.

SPRINT NEXTEL CORPORATION

By: _____

Thomas J. Regan
Brown Rudnick LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402
Email - tregan@brownrudnick.com
Phone - 860.509.6522
Fax - 860.509.6501

Certificate of Service

This is to certify that on this 10th day of February, 2011, the foregoing Notice of Exempt Modification was sent, via first class mail, to the following:

City of Stamford
Mayor Michael Pavia
888 Washington Boulevard
Stamford, CT 06901

By: _____
Thomas J. Regan

40281219 v1 - 025064/0018

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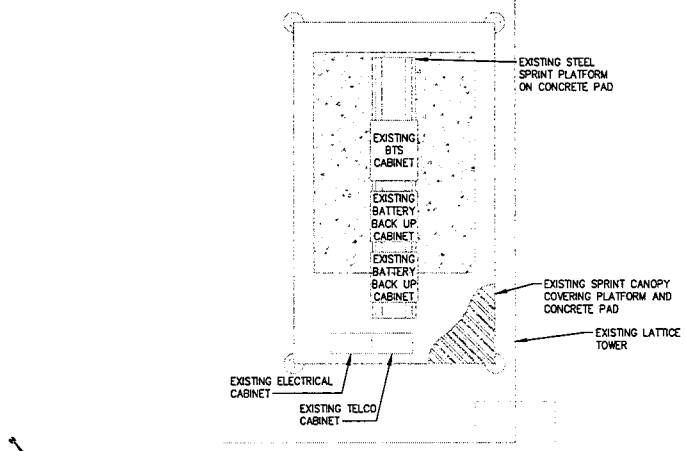
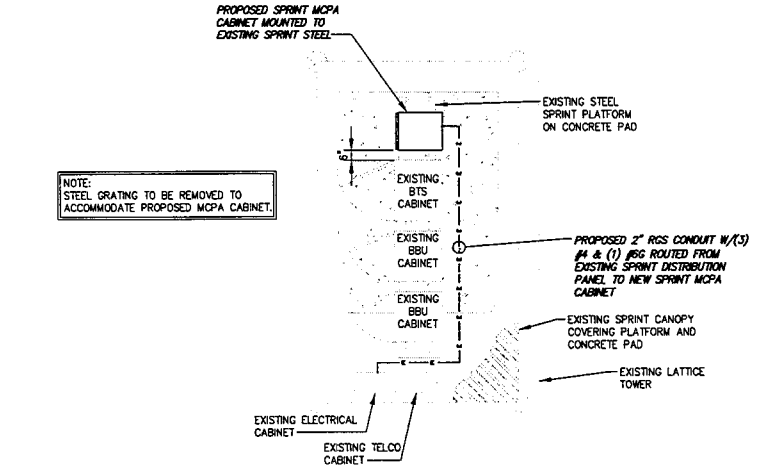
(860) 509-6500



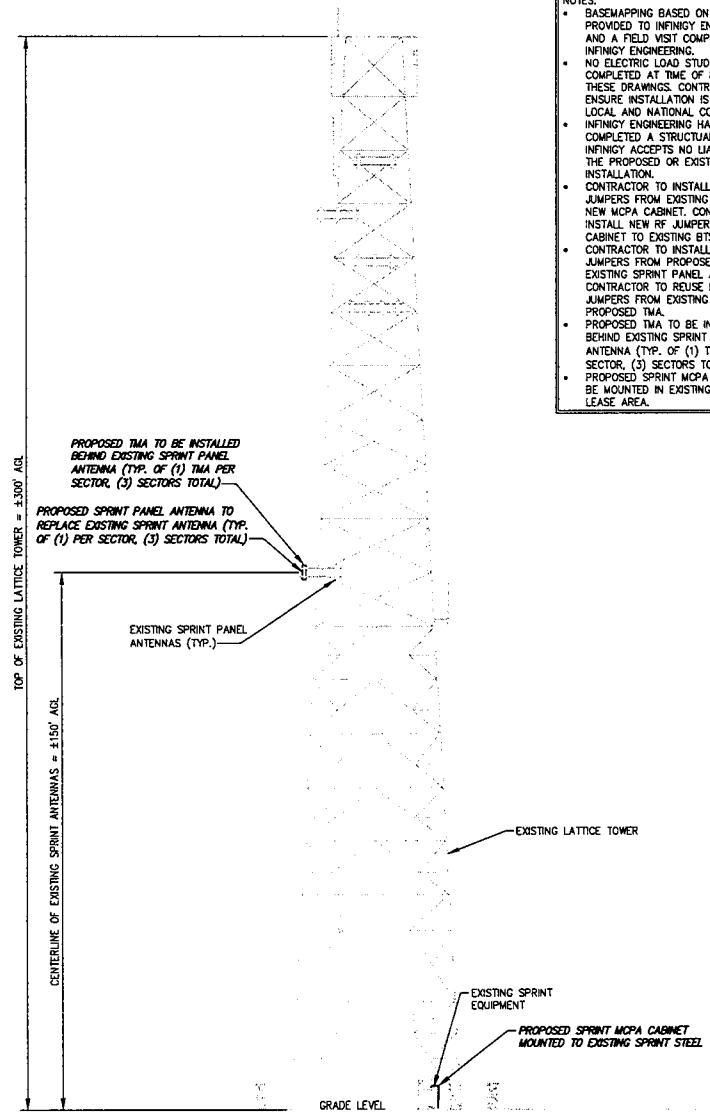
1 ENLARGED SITE PLAN (EXISTING CONDITIONS)
SCALE:

GRAPHIC SCALE
6' 3' 0 3' 6'
SCALE (11x17): 1" = 6'-0"
SCALE (22x34): 1" = 3'-0"



2 ENLARGED SITE PLAN (PROPOSED CONDITIONS)
SCALE:

GRAPHIC SCALE
6' 3' 0 3' 6'
SCALE (11x17): 1" = 6'-0"
SCALE (22x34): 1" = 3'-0"



3 TOWER ELEVATION
NO SCALE

NOTES:
- BASEMAPPING BASED ON INFORMATION PROVIDED TO INFINIGY ENGINEERING AND A FIELD VISIT COMPLETED BY INFINIGY ENGINEERING.
- NO ELECTRIC LOAD STUDY WAS COMPLETED AT TIME OF ISSUANCE OF THESE DRAWINGS. CONTRACTOR TO ENSURE INSTALLATION IS PER ALL LOCAL AND NATIONAL CODES.
- INFINIGY ENGINEERING HAS NOT COMPLETED A STRUCTUAL ANALYSIS. INFINIGY ACCEPTS NO LIABILITY FOR THE PROPOSED OR EXISTING INSTALLATION.
- CONTRACTOR TO INSTALL NEW RF JUMPERS FROM EXISTING HARDLINE TO NEW MCPA CABINET. CONTRACTOR TO INSTALL NEW RF JUMPERS FROM MCPA CABINET TO EXISTING BTS CABINET.
- CONTRACTOR TO INSTALL NEW RF JUMPERS FROM PROPOSED TMA TO EXISTING SPRINT PANEL ANTENNAS. CONTRACTOR TO REUSE EXISTING RF JUMPERS FROM EXISTING HARDLINE TO PROPOSED TMA.
- PROPOSED TMA TO BE INSTALLED BEHIND EXISTING SPRINT PANEL ANTENNA (TYP. OF (1) TMA PER SECTOR, (3) SECTORS TOTAL)
- PROPOSED SPRINT MCPA CABINET TO BE MOUNTED IN EXISTING SPRINT LEASE AREA.

infinigy engineering & surveying
11 HERBERT DRIVE
LATHAM, NY 12110
OFFICE: (518) 690-0790
FAX: (518) 690-0793

No.	Submittal / Revision	Appd.	Date
2	REVISED PER CLIENT	SKB	10/1/10
1	REVISED PER CLIENT	SKB	9/30/10
0	ISSUED FOR REVIEW	BPM	9/2/10

Drawn: BPM Date: 9/2/10
Designed: SJB Date: 9/2/10
Checked: SJB Date: 9/2/10

Project Number: 159-006

Project Title:
CT03XC337
ATC TOWER
168 CATOONA LANE
STAMFORD, CT 06901

Prepared For:
Sprint
Together with Nextel.
8 AIRLINE DRIVE, SUITE 105
ALBANY, NY 12205

Drawing Scale: AS NOTED
Date: 10/1/10

Drawing Title:
EQUIPMENT PLAN & ELEVATION

Drawing Number:
LE

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**300 ft Type H AT&T Tag Self Supported Tower**
ATC Site Name	:	**Stamford (Katoona), CT**
ATC Site Number	:	**88018**
Proposed Carrier	:	**Sprint Nextel**
Carrier Site Name	:	**N/A**
Carrier Site Number	:	**CT-BDR0126**
County	:	**Fairfield**
Engineering Number	:	**45744724**
Date	:	**January 13, 2011***
Usage	:	**100%**

Submitted by:
Scott Wirgau
Project Engineer

1/14/11

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 300 ft Type H AT&T Tag Self Supported Tower located northeast of the intersection of Catoona Lane and Myano Lane, Stamford, CT 06902, Fairfield County (ATC Site No. 88018). The tower information was taken from an analysis by CSEI (ATC Eng. No. 73123451, dated September 29, 2005). The tower has been modified per design by ATC (Job No. 42439132, dated September 26, 2008 and Job No. 44209632, December 2, 2009).

Analysis

The tower was analyzed using Powerline Systems, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed:	85 mph (Fastest Mile)
Radial Ice:	74 mph (Fastest Mile) w/ ½" ice
Code:	TIA/EIA-222-F / 2003 IBC Criteria per Section 1609.1.1, Exception (4) & Section 3108.4 w/ 2005 CT Supplements & 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
311.0	1	4' Dish w/ Radome	Dish	(1) 7/8"	Marcus Comm.
303.0	1	AML PGLN1PR-MFF	Platform	-	Bell Industries
	1	Scala OGB9-900N/DT3		(1) 7/8"	
302.0	1	RFS 200		(1) 1 5/8"	Lojack
300.0	1	TX RX 101-68-10-X-03N		(1) 1 1/4"	Marcus Comm.
	1	15' Omni		-	-
	1	16' Omni w/ Reflectors		-	
	1	DragonWave A-ANT-18G-2-C	Side Arm	(1) 7/8"	Clearwire
	2	DragonWave A-ANT-23G-1-C		(2) 7/8"	
	3	DragonWave Horizon Compact		-	
294.0	6	Powerwave 7770.00	Side Arm	(12) 1 5/8"	AT&T Mobility
	6	Powerwave LGP21903		-	
	6	Powerwave LGP21401		-	
289.0	1	Dielectric TLP-08M-2E	Pipe	(1) 3 1/8"	Qualcomm
285.0	3	48" x 10" Panel	Pipe	-	AT&T Mobility
283.0	-	-	Catwalk	-	-
271.0	1	Rohde & Schwarz ADD090	Side Arm	(2) 7/8"	USCG
	1	TTA		(1) 1/4"	

Existing Antennas (continued)

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
269.0	1	Til Tek TA-2350-DAB	Side Arm	(1) EW20	XM Satellite
265.0	6	CCI DTMA-1819-DD-12	Sector Frame	-	T-Mobile
	7	RFS APX16DWV-16DWVS-E-A20		(24) 1 5/8"	
242.0	1	Sinclair SC381-HL	Side Arm	(1) 7/8"	USCG
	1	Sinclair SC281-L		(1) 7/8"	
235.0	4	Dapa 58412	Sector Frame	(6) 1 5/8"	AT&T Mobility
	2	EMS RR90-17-04DP		(3) 1 5/8"	
	6	TTA		-	
224.0	12	Decibel DB844H90E-XY	Sector Frame	(15) 1 5/8"	Sprint Nextel
215.5	1	8' Omni	Side Arm	(1) 3/8"	Lojack
212.5	-	-	Platform	-	-
200.0	1	Sinclair SC281-L	Side Arm	(1) 7/8"	USCG
	2	TX RX 101-68-10-X-03N	Side Arm	(2) 1 1/4"	Marcus Comm.
193.0	1	36" x 60" Panel	Side Arm	-	Town of Stamford
180.0	3	Antel BCD-87010	Side Arm	(3) 7/8"	USA Mobility
167.0	3	Argus LLPX310R	Side Arm	(6) 5/16"	Clearwire
	3	NextNet BTS-2500		(1) 2" Conduit	
160.0	6	Kathrein 800 10504	Sector Frame	(12) 1 5/8"	Metro PCS
	6	RCU		(3) 3/8"	
137.0	1	Antel BCD-87010_4	Side Arm	(1) 7/8"	Sensus Metering
120.0	1	Channel Master Type 120	Dish	(1) 1/2"	USA Mobility
100.0	1	TX RX 101-68-10-X-03N	Side Arm	(1) 1 1/4"	Marcus Comm.
	-	-	Platform	-	-
25.0	1	Til Tek TA-2324-LHCP	Dish	(1) 7/8"	XM Satellite
10.0	1	GPS Unit	Pipe	(1) 3/8"	Lojack

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
148.0	9	Andrew HBX-9014DS-R2M	Sector Frame	(9) 1 5/8"	Sprint Nextel
	3	CCI CE-1819-200MC (TMA)		-	

Install proposed coax in same location as existing.

Results

The maximum structure usage is: 100%

Leg Forces	Original Design Reactions	Current Analysis Reactions	% Of Design
Uplift (Kips)	N/A	412.9	N/A
Axial (Kips)	N/A	511.3	N/A

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222-F and 2003 IBC standards with 2005 CT supplements and 2008 CT amendments.

The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

If you have any questions or require additional information, please call 919-466-5086.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

-- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.

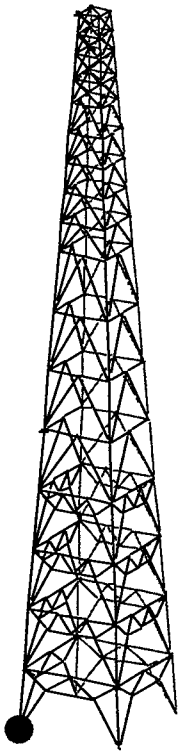
-- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

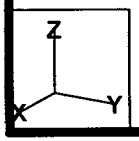
It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

American Tower Corp., Project: "88018-l2-Sprint Nextel-01_13_11"
Tower Version 10.62, 9:36:57 AM Thursday, January 13, 2011
Undeformed geometry displayed





Project Name : 88018 Stamford (Katoona), CT
Project Notes: 300' Type 'H' AT&T Tag Tower
Project File : R:\Engineering Services\L2 - ATC\88018\Sprint Nextel 01-13-11\88018-l2-Sprint Nextel-01_13_11.tow
Date run : 9:00:17 AM Thursday, January 13, 2011
by : Tower Version 10.62
Licensed to : American Tower Corp.

Successfully performed nonlinear analysis

The model has 0 warnings.

Member check option: TIA/EIA 222-F
Connection rupture check: Not Checked
Crossing diagonal check: Fixed
Loads from file: r:\engineering services\l2 - atc\88018\sprint nextel 01-13-11\88018-loads-sprint nextel-01_13_11.eia

*** Analysis Results:

Maximum element usage is 99.94% for Angle "H 2Y" in load case "W -45"

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
W 0	0P	-44.51	-24.15	330.49	50.64	-0.38	-5.38	-2.21	5.39	0.00
W 0	0X	-43.01	24.87	325.07	49.69	0.07	-5.10	2.22	5.10	0.00
W 0	0XY	-36.21	-17.13	-233.83	40.06	0.56	-5.55	2.04	5.58	0.00
W 0	0Y	-37.43	16.36	-234.93	40.85	-0.35	-5.83	-2.01	5.84	0.00
W 180	0P	37.43	16.18	-232.72	40.78	-0.34	5.88	2.02	5.89	0.00
W 180	0X	36.23	-16.99	-231.80	40.02	0.56	5.60	-2.05	5.63	0.00
W 180	0XY	43.03	24.74	323.04	49.63	0.07	5.15	-2.22	5.15	0.00
W 180	0Y	44.48	-23.97	328.28	50.53	-0.39	5.42	2.22	5.44	0.00
W 45	0P	-53.07	-53.35	506.64	75.25	4.37	-4.30	-0.00	6.14	0.00
W 45	0X	-20.09	-12.66	43.35	23.74	4.72	-4.13	3.44	6.27	0.00
W 45	0XY	-46.56	-46.48	-408.74	65.79	4.90	-4.92	-0.01	6.95	0.00
W 45	0Y	-12.21	-20.16	45.56	23.57	4.11	-4.65	-3.44	6.21	0.00
W -45	0P	-21.24	13.02	48.56	24.92	-4.93	-4.33	-3.42	6.56	0.00
W -45	0X	-51.94	53.66	501.22	74.68	-4.57	-4.11	0.01	6.15	0.00
W -45	0XY	-11.48	19.57	45.30	22.69	-3.97	-4.46	3.46	5.97	0.00
W -45	0Y	-47.33	45.85	-408.28	65.89	-4.75	-5.12	0.03	6.98	0.00
W 90	0P	-24.15	-44.83	332.21	50.93	5.43	0.42	2.20	5.45	0.00
W 90	0X	16.39	-37.77	-236.72	41.18	5.88	0.32	2.01	5.89	0.00
W 90	0XY	-17.30	-36.23	-234.82	40.15	5.54	-0.59	-2.05	5.57	0.00
W 90	0Y	25.07	-43.04	326.15	49.81	5.08	-0.04	-2.22	5.08	0.00
W -90	0P	16.20	37.67	-234.16	41.01	-5.91	0.32	-2.01	5.92	0.00
W -90	0X	-23.97	44.70	329.64	50.72	-5.45	0.42	-2.22	5.47	0.00
W -90	0XY	24.90	43.01	323.91	49.70	-5.12	-0.04	2.23	5.12	0.00
W -90	0Y	-17.13	36.21	-232.58	40.05	-5.58	-0.59	2.05	5.61	0.00
W 0 Ice	0P	-41.43	-22.98	324.94	47.38	-1.50	-3.67	-1.96	3.96	0.00
W 0 Ice	0X	-39.93	23.68	319.02	46.43	1.19	-3.39	1.97	3.59	0.00
W 0 Ice	0XY	-32.20	-15.10	-194.29	35.57	1.65	-6.12	1.83	6.33	0.00
W 0 Ice	0Y	-33.32	14.36	-194.62	36.29	-1.46	-6.39	-1.80	6.55	0.00
W 180 Ice	0P	33.32	14.12	-191.58	36.19	-1.45	6.45	1.81	6.61	0.00
W 180 Ice	0X	32.23	-14.91	-191.50	35.51	1.66	6.18	-1.84	6.40	0.00
W 180 Ice	0XY	39.95	23.49	316.23	46.35	1.18	3.46	-1.98	3.66	0.00
W 180 Ice	0Y	41.39	-22.74	321.90	47.23	-1.51	3.73	1.97	4.02	0.00
W 45 Ice	0P	-49.47	-49.71	485.81	70.13	2.81	-2.75	-0.00	3.94	0.00
W 45 Ice	0X	-18.99	-10.71	60.82	21.80	5.44	-2.60	3.15	6.03	0.00
W 45 Ice	0XY	-41.87	-41.80	-354.00	59.16	5.59	-5.61	-0.01	7.92	0.00
W 45 Ice	0Y	-10.35	-19.03	62.41	21.66	2.59	-5.37	-3.15	5.96	0.00
W -45 Ice	0P	-20.16	11.08	66.42	23.00	-5.65	-2.80	-3.14	6.31	0.00
W -45 Ice	0X	-48.33	50.03	480.05	69.56	-3.03	-2.56	0.00	3.96	0.00
W -45 Ice	0XY	-9.68	18.48	61.53	20.86	-2.47	-5.18	3.17	5.74	0.00
W -45 Ice	0Y	-42.56	41.22	-352.96	59.25	-5.47	-5.80	0.03	7.97	0.00
W 90 Ice	0P	-22.97	-41.70	326.31	47.61	3.71	1.53	1.96	4.01	0.00
W 90 Ice	0X	14.38	-33.60	-195.91	36.54	6.43	1.44	1.80	6.59	0.00
W 90 Ice	0XY	-15.23	-32.21	-195.05	35.63	6.10	-1.67	-1.84	6.33	0.00
W 90 Ice	0Y	23.84	-39.94	319.69	46.51	3.38	-1.16	-1.97	3.57	0.00
W -90 Ice	0P	14.14	33.51	-192.74	36.37	-6.47	1.44	-1.80	6.63	0.00
W -90 Ice	0X	-22.74	41.58	323.15	47.39	-3.75	1.54	-1.97	4.05	0.00
W -90 Ice	0XY	23.64	39.93	316.88	46.40	-3.44	-1.16	1.98	3.63	0.00
W -90 Ice	0Y	-15.03	32.21	-192.24	35.54	-6.16	-1.67	1.84	6.38	0.00

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

Load Case	Support Joint	Origin Joint	Leg Member	Force In Leg Dir. (kips)	Residual Shear Perpendicular To Leg (kips)	Residual Shear Horizontal To Leg - Res. (kips)	Residual Shear Horizontal To Leg - Long. (kips)	Residual Shear Horizontal To Leg - Tran. (kips)	Total Long. Force (kips)	Total Tran. Force (kips)	Total Vert. Force (kips)

W 0	0P	1P	L 1P	333.459	24.362	24.422	3.767	24.130	-44.51	-24.15	330.49
W 0	0X	1X	L 1X	328.015	23.408	23.470	-4.825	22.968	-43.01	24.87	325.07
W 0	0XY	1XY	L 1XY	-236.222	21.908	21.960	2.709	21.792	-36.21	-17.13	-233.83
W 0	0Y	1Y	L 1Y	-237.347	22.970	23.021	-1.869	22.945	-37.43	16.36	-234.93
W 180	0P	1P	L 1P	-235.135	23.105	23.156	-1.825	-23.084	37.43	16.18	-232.72
W 180	0X	1X	L 1X	-234.195	22.046	22.098	2.700	-21.933	36.23	-16.99	-231.80
W 180	0XY	1XY	L 1XY	325.986	23.541	23.603	-4.816	-23.107	43.03	24.74	323.04
W 180	0Y	1Y	L 1Y	331.247	24.462	24.522	3.724	-24.238	44.48	-23.97	328.28
W 45	0P	1P	L 1P	511.257	30.953	31.070	22.108	21.831	-53.07	-53.35	506.64
W 45	0X	1X	L 1X	43.644	23.202	23.203	15.335	17.413	-20.09	-12.66	43.35
W 45	0XY	1XY	L 1XY	-412.910	30.030	30.144	21.272	21.357	-46.56	-46.48	-408.74
W 45	0Y	1Y	L 1Y	45.872	22.950	22.950	17.353	15.020	-12.21	-20.16	45.56
W -45	0P	1P	L 1P	48.881	24.282	24.283	-16.019	18.250	-21.24	13.02	48.56
W -45	0X	1X	L 1X	505.815	30.868	30.985	-22.751	21.035	-51.94	53.66	501.22
W -45	0XY	1XY	L 1XY	45.628	22.023	22.024	-16.776	14.269	-11.48	19.57	45.30
W -45	0Y	1Y	L 1Y	-412.461	30.182	30.296	-20.672	22.148	-47.33	45.85	-408.28
W 90	0P	1P	L 1P	335.188	24.562	24.622	24.348	3.665	-24.15	-44.83	332.21
W 90	0X	1X	L 1X	-239.156	23.195	23.245	23.176	-1.792	16.39	-37.77	-236.72
W 90	0XY	1XY	L 1XY	-237.224	21.882	21.934	21.752	2.819	-17.30	-36.23	-234.82
W 90	0Y	1Y	L 1Y	329.097	23.396	23.459	22.928	-4.961	25.07	-43.04	326.15
W -90	0P	1P	L 1P	-236.585	23.249	23.300	-23.233	-1.764	16.20	37.67	-234.16
W -90	0X	1X	L 1X	332.615	24.584	24.644	-24.374	3.638	-23.97	44.70	329.64
W -90	0XY	1XY	L 1XY	326.853	23.498	23.561	-23.039	-4.930	24.90	43.01	323.91
W -90	0Y	1Y	L 1Y	-234.981	21.989	22.041	-21.864	2.788	-17.13	36.21	-232.58
W 0 Ice	0P	1P	L 1P	327.665	21.543	21.595	2.945	21.394	-41.43	-22.98	324.94
W 0 Ice	0X	1X	L 1X	321.721	20.598	20.652	-4.006	20.260	-39.93	23.68	319.02
W 0 Ice	0XY	1XY	L 1XY	-196.464	20.410	20.460	3.116	20.221	-32.20	-15.10	-194.29
W 0 Ice	0Y	1Y	L 1Y	-196.815	21.403	21.452	-2.361	21.322	-33.32	14.36	-194.62
W 180 Ice	0P	1P	L 1P	-193.773	21.579	21.628	-2.303	-21.505	33.32	14.12	-191.58
W 180 Ice	0X	1X	L 1X	-193.674	20.600	20.651	3.100	-20.417	32.23	-14.91	-191.50
W 180 Ice	0XY	1XY	L 1XY	318.930	20.783	20.837	-3.991	-20.452	39.95	23.49	316.23
W 180 Ice	0Y	1Y	L 1Y	324.622	21.684	21.736	2.887	-21.544	41.39	-22.74	321.90
W 45 Ice	0P	1P	L 1P	490.067	27.659	27.764	19.749	19.515	-49.47	-49.71	485.81
W 45 Ice	0X	1X	L 1X	61.098	21.006	21.006	14.457	15.240	-18.99	-10.71	60.82
W 45 Ice	0XY	1XY	L 1XY	-357.801	28.183	28.290	19.967	20.040	-41.87	-41.80	-354.00
W 45 Ice	0Y	1Y	L 1Y	62.708	20.786	20.787	15.185	14.195	-10.35	-19.03	62.41
W -45 Ice	0P	1P	L 1P	66.726	22.099	22.099	-15.180	16.061	-20.16	11.08	66.42
W -45 Ice	0X	1X	L 1X	484.279	27.610	27.714	-20.431	18.726	-48.33	50.03	480.05
W -45 Ice	0XY	1XY	L 1XY	61.834	19.928	19.928	-14.687	13.469	-9.68	18.48	61.53
W -45 Ice	0Y	1Y	L 1Y	-356.768	28.367	28.475	-19.449	20.797	-42.56	41.22	-352.96
W 90 Ice	0P	1P	L 1P	329.049	21.714	21.766	21.579	2.851	-22.97	-41.70	326.31
W 90 Ice	0X	1X	L 1X	-198.115	21.588	21.637	21.515	-2.297	14.38	-33.60	-195.91
W 90 Ice	0XY	1XY	L 1XY	-197.225	20.389	20.440	20.187	3.205	-15.23	-32.21	-195.05
W 90 Ice	0Y	1Y	L 1Y	322.397	20.585	20.639	20.223	-4.125	23.84	-39.94	319.69
W -90 Ice	0P	1P	L 1P	-194.942	21.692	21.742	-21.625	-2.253	14.14	33.51	-192.74
W -90 Ice	0X	1X	L 1X	325.875	21.784	21.836	-21.655	2.808	-22.74	41.58	323.15
W -90 Ice	0XY	1XY	L 1XY	319.588	20.738	20.792	-20.385	-4.094	23.64	39.93	316.88
W -90 Ice	0Y	1Y	L 1Y	-194.418	20.546	20.597	-20.351	3.174	-15.03	32.21	-192.24

Overturning Moment Summary For All Load Cases:

Load Case	Transverse Moment (ft-k)	Longitudinal Moment (ft-k)	Resultant Moment (ft-k)
W 0	99.258	25859.471	25859.662
W 180	99.310	-25664.585	25664.777
W 45	21104.303	21002.923	29774.391
W -45	-20843.667	20993.500	29583.534
W 90	25987.672	95.677	25987.849
W -90	-25766.731	95.726	25766.909
W 0 Ice	128.501	23756.020	23756.367
W 180 Ice	128.567	-23487.874	23488.226
W 45 Ice	19352.246	19279.056	27316.505
W -45 Ice	-19046.571	19271.735	27095.602
W 90 Ice	23849.930	132.509	23850.298
W -90 Ice	-23575.311	132.573	23575.684

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Af Adjust Factor	Face Ar Adjust Factor	Dead Load Factor
291.42-300	300.000	291.420	8	20	9.00	10.06	81.76	1.1670	1.1670	1.167
282.84-291.42	291.420	282.840	8	16	10.06	11.12	90.84	1.2150	1.2150	1.215
272.67-282.84	282.840	272.670	8	16	11.12	12.37	119.43	1.1960	1.1960	1.196
262.5-272.67	272.670	262.500	12	24	12.37	13.63	132.19	1.2030	1.2030	1.203
250-262.5	262.500	250.000	16	24	13.63	15.17	179.95	1.2010	1.2010	1.201
237.5-250	250.000	237.500	16	24	15.17	16.71	199.22	1.2070	1.2070	1.207
225-237.5	237.500	225.000	16	24	16.71	18.25	218.49	1.2130	1.2130	1.213
212.5-225	225.000	212.500	16	24	18.25	19.79	237.76	1.2190	1.2190	1.219

200-212.5	212.500	200.000	16	24	19.79	21.33	257.03	1.2250	1.2250	1.225
175-200	200.000	175.000	16	24	21.33	24.42	571.87	1.2540	1.2540	1.254
150-175	175.000	150.000	16	24	24.42	27.50	648.96	1.2570	1.2570	1.257
125-150	150.000	125.000	16	24	27.50	30.58	726.04	1.2660	1.2660	1.266
100-125	125.000	100.000	20	32	30.58	33.67	803.13	1.2790	1.2790	1.279
75-100	100.000	75.000	36	76	33.67	36.75	880.21	1.2320	1.2320	1.232
50-75	75.000	50.000	36	76	36.75	39.83	957.29	1.2320	1.2320	1.232
25-50	50.000	25.000	32	68	39.83	42.92	1034.38	1.2340	1.2340	1.234
0-25	25.000	0.000	20	40	42.92	46.00	1111.46	1.2520	1.2520	1.252

*** 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	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/R Capacity (kips)	Comp. Conn. Shear Capacity (kips)	Comp. Conn. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R	Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	92.11	92.11	L 1P	-436.120	W 45	300.572	0.000	0.000	0.281	0.281	0.281	54.28	25.095	1	0
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	88.80	88.80	L 2P	-379.364	W 45	300.572	0.000	0.000	0.281	0.281	0.281	54.28	25.095	1	0
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	81.53	81.53	L 3P	-326.732	W 45	300.572	0.000	0.000	0.281	0.281	0.281	54.28	25.095	1	0
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	36.0	76.02	76.02	L 4P	-273.132	W 45	269.490	0.000	0.000	0.281	0.281	0.281	54.28	25.095	1	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	87.00	87.00	L 5P	-261.612	W 45	225.521	0.000	0.000	0.333	0.333	0.333	63.93	25.095	1	0
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	71.12	71.12	L 6P	-213.863	W 45	225.521	0.000	0.000	0.333	0.333	0.333	63.93	25.095	1	0
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	64.68	64.68	L 7P	-168.567	W 45	195.467	0.000	0.000	0.333	0.333	0.333	63.53	25.095	1	0
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	57.82	57.82	L 8P	-126.580	W 45	164.199	0.000	0.000	0.333	0.333	0.333	63.53	25.095	1	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	55.46	55.46	L 9P	-106.123	W 45	143.521	0.000	0.000	0.500	0.500	0.500	64.35	12.547	1	0
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	45.39	45.39	L 10P	-86.864	W 45	143.521	0.000	0.000	0.500	0.500	0.500	64.35	12.547	1	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	47.90	47.90	L 11P	-70.060	W 45	109.689	0.000	0.000	0.500	0.500	0.500	63.80	12.547	1	0
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	37.07	37.07	L 12P	-54.221	W 45	109.689	0.000	0.000	0.500	0.500	0.500	63.80	12.547	1	0
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	33.50	33.50	L 13P	-38.673	W 45	86.587	0.000	0.000	0.500	0.500	0.500	63.26	12.547	1	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	32.14	32.14	L 14P	-30.851	W 45	71.997	0.000	0.000	0.500	0.500	0.500	62.12	10.209	1	0
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	21.77	21.77	L 15P	-20.894	W 45 Ice	71.997	0.000	0.000	0.500	0.500	0.500	62.12	10.209	1	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	16.61	16.61	L 16P	-12.156	W 45 Ice	54.905	0.000	0.000	0.500	0.500	0.500	51.99	8.613	1	0
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	7.87	7.87	L 17P	-5.760	W 45 Ice	54.905	0.000	0.000	0.500	0.500	0.500	51.99	8.613	1	0
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	36.0	98.49	98.49	D 2X	-47.167	W -90	35.918	0.000	0.000	0.333	1.000	0.333	135.47	21.788	5	0
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	36.0	97.63	97.63	D 4X	-52.109	W -90	40.032	0.000	0.000	0.333	0.667	0.333	101.48	20.919	1	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	62.19	62.19	D 6X	-52.075	W -90	32.896	0.000	0.000	0.333	0.667	0.333	111.84	20.553	1	0
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	61.54	61.54	D 8X	-52.591	W -90	33.631	0.000	0.000	0.333	0.667	0.333	109.96	20.207	1	0
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	86.26	86.26	D 9P	-34.858	W 90	30.309	0.000	0.000	0.333	0.667	0.333	134.71	30.178	6	0
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	82.40	82.40	D 11X	-34.507	W -90	31.411	0.000	0.000	0.333	0.667	0.333	131.00	29.346	6	0
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	72.19	72.19	D 13X	-31.255	W -90	32.473	0.000	0.000	0.333	0.667	0.333	127.55	28.573	6	0
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	66.32	66.32	D 15X	-29.650	W -90	33.531	0.000	0.000	0.320	0.590	0.320	124.08	27.864	6	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	76.24	76.24	D 17X	-16.444	W -90	16.177	0.000	0.000	0.500	1.000	0.500	165.89	16.451	6	0
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	66.61	66.61	D 19X	-14.974	W -90	16.860	0.000	0.000	0.500	1.000	0.500	160.96	15.962	6	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	89.48	89.48	D 21X	-13.365	W -90	11.202	0.000	0.000	0.500	1.000	0.500	198.87	15.495	6	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	79.50	79.50	D 23X	-12.379	W -90	11.680	0.000	0.000	0.500	1.000	0.500	193.21	15.054	6	0
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	72.91	72.91	D 25X	-11.817	W -90	12.156	0.000	0.000	0.500	1.000	0.500	187.90	14.641	6	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	37.68	37.68	D 28X	-6.309	W -90	12.559	0.000	0.000	0.520	0.750	0.520	148.50	16.516	5	0
Diag S15	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	30.17	30.17	D 30X	-5.560	W -90	13.822	0.000	0.000	0.520	0.750	0.520	139.80	15.548	5	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	29.02	29.02	D 32X	-4.360	W -90	11.269	0.000	0.000	0.520	0.750	0.520	143.75	13.638	5	0
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	21.66	21.66	D 34X	-3.582	W -90	12.402	0.000	0.000	0.520	0.750	0.520	135.27	12.834	5	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	99.94	99.94	H 2Y	-40.486	W -45	30.385	0.000	0.000	0.500	0.500	0.500	118.12	21.458	1	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	65.70	65.70	H 4Y	-40.632	W -45	46.387	0.000	0.000	0.500	0.500	0.500	73.09	13.278	1	0
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	61.20	61.20	H 6Y	-39.230	W -45	48.080	0.000	0.000	0.500	0.500	0.500	67.43	12.250	1	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	96.04	96.04	H 8Y	-35.027	W -45	27.353	0.000	0.000	0.500	1.000	0.500	119.17	11.222	1	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	92.23	92.23	H 9X	-17.607	W 90	14.318	0.000	0.000	1.000	1.000	1.000	194.18	15.292	6	0
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	72.09	72.09	H 11P	-16.005	W -90	16.651	0.000	0.000	1.000	1.000	1.000	174.60	13.750	6	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	74.46	74.46	H 13P	-13.222	W -90	13.318	0.000	0.000	1.000	1.000	1.000	190.51	12.208	6	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	57.06	57.06	H 16P	-12.250	W 180	16.102	0.000	0.000	1.000	1.000	1.000	166.45	10.667	6	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	41.33	41.33	H 17P	-9.828	W -90	17.834	0.000	0.000	1.000	1.000	1.000	154.42	9.896	6	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	32.09	32.09	H 19P	-8.497	W -90	19.861	0.000	0.000	1.000	1.000	1.000	142.39	9.125	6	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	24.43	24.43	H 21P	-7.248	W -90	22.254	0.000	0.000	1.000	1.000	1.000	130.36	8.354	6	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	20.13	20.13	H 23P	-6.721	W -90	25.037	0.000	0.000	1.000	1.000	1.000	118.34	7.583	1	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	14.34	14.34	H 25X	-5.536	W 90	28.949	0.000	0.000	1.000	1.000	1.000	106.31	6.813	1	0
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	14.69	14.69	H 28X	-1.366	W 90	6.977	0.000	0.000	0.500	1.000	0.500	197.14	12.371	6	0
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	2.16	2.16	H 30X	-0.801	W 90	27.773	0.000	0.000	0.500	1.000	0.500	118.05	11.116	1	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	3.09	2.32	H 32X	-0.288	W 90	9.333	0.000	0.000	0.500	1.000	0.500	160.29	10.058	6	0
Horiz 17	C8x11.5	CHN	C8x11.5	36.0	1.92	1.92	H 34X	-0.554	W 180	21.711	0.000	0.000	0.500	1.000	0.500	172.80	9.000	6	0
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	98.25	98.25	LD 1X	-23.839	W -45	18.198	0.000	0.000	0.880	0.880	0.880	152.11	12.834	6	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	84.25	84.25	LD 3X	-49.911	W -90	44.434	0.000	0.000	0.820	0.820	0.820	98.67	12.834	1	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	56.53	56.53	LD 7X	-26.832	W -45	16.111	0.000	0.000	0.870	0.870	0.870	153.35	11.516	6	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	96.43	96.43	LD 9X	-34.149	W -90	26.560	0.000	0.000	0.830	0.830	0.830	103.97	8.184	1	0
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	79.62	79.62	LD 11P	-37.751	W -90	35.559	0.000	0.000	0.840	0.840	0.840	104.91	9.679	1	0
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	70.68	70.68	LD 13X	-27.400	W -45	29.075	0.000	0.000	0.865	0.865	0.865	122.11	10.941	6	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	94.28	94.28	LD 15X	-34.015	W -90	27.060	0.000	0.000	0.830	0.830	0.830	102.15	8.040	1	0
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	95.65	95.65	LD 17P	-37.203	W -90	29.171	0.000	0.000	0.840	0.840	0.840	105.60	9.334	1	0
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	66.46	66.46	LD 19X	-27.953	W -45	31.544	0.000	0.000	0.860	0.860	0.860	115.25	10.386	1	0

LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	94.30	94.30	LD 21X	-34.196	W -90	27.199	0.000	0.000	0.840	0.840	0.840	101.64	7.905	1	0
LD 12	B/B L2.5"x2.5"x0.375"	DAE	2.5X2.5X0.38	36.0	78.21	78.21	LD 23P	-36.571	W -90	35.071	0.000	0.000	0.850	0.850	0.850	121.98	9.005	6	0
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	53.77	53.77	LH 2P	-11.657	W 90	16.260	0.000	0.000	0.500	1.000	0.500	177.59	21.458	6	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	64.94	64.94	LH 3X	-30.562	W -45	16.097	0.000	0.000	1.000	2.000	1.000	178.86	10.806	6	0
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	36.0	85.13	85.13	LH 5X	-30.268	W -45	26.667	0.000	0.000	1.000	2.000	1.000	163.32	10.003	6	0
LH 4	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	76.08	76.08	LH 7X	-29.656	W -45	29.236	0.000	0.000	0.998	1.995	0.998	138.53	9.200	6	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00	0.00	BR 11XY	-1.288	W 45	0.215	0.000	0.000	1.000	1.000	1.000	2.33	19.445	1	0

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Tens. %	Tension Control Member	Tension Force (kips)	Tension Control Load Case	Net Tens. Section Capacity (kips)	Conn. Tens. Shear Capacity (kips)	Conn. Tens. Bearing Capacity (kips)	Conn. Tens. Rupture Capacity (kips)	Length Tens. Member (ft)	No. Of Bolts Tens.	No. Of Holes	Hole Diameter (in)
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	92.11	71.98	L 1XY	346.806	W 45	361.367	0.000	0.000	0.000	25.095	0	0.000	0
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	88.80	62.87	L 2XY	302.895	W 45	361.367	0.000	0.000	0.000	25.095	0	0.000	0
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	81.53	54.20	L 3XY	261.149	W 45	361.367	0.000	0.000	0.000	25.095	0	0.000	0
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	36.0	76.02	50.82	L 4XY	219.528	W 45	323.999	0.000	0.000	0.000	25.095	0	0.000	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	87.00	55.92	L 5XY	213.048	W 45	285.768	0.000	0.000	0.000	25.095	0	0.000	0
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	71.12	45.48	L 6XY	173.295	W 45	285.768	0.000	0.000	0.000	25.095	0	0.000	0
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	64.68	41.19	L 7XY	135.703	W 45	247.104	0.000	0.000	0.000	25.095	0	0.000	0
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	57.82	35.91	L 8XY	99.385	W 45	207.576	0.000	0.000	0.000	25.095	0	0.000	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	55.46	33.93	L 9XY	82.471	W 45	182.304	0.000	0.000	0.000	12.547	0	0.000	0
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	45.39	27.22	L 10XY	66.164	W 45	182.304	0.000	0.000	0.000	12.547	0	0.000	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	47.90	27.57	L 11XY	51.045	W 45	138.888	0.000	0.000	0.000	12.547	0	0.000	0
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	37.07	20.32	L 12Y	37.634	W -45	138.888	0.000	0.000	0.000	12.547	0	0.000	0
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	33.50	16.69	L 13Y	24.318	W -45	109.296	0.000	0.000	0.000	12.547	0	0.000	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	32.14	16.27	L 14Y	19.585	W -45	90.288	0.000	0.000	0.000	10.209	0	0.000	0
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	21.77	9.35	L 15Y	11.255	W -45	90.288	0.000	0.000	0.000	10.209	0	0.000	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	16.61	5.89	L 16Y	5.140	W -45	65.448	0.000	0.000	0.000	8.613	0	0.000	0
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	7.87	0.91	L 17XY	0.791	W 45	65.448	0.000	0.000	0.000	8.613	0	0.000	0
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	36.0	98.49	35.55	D 2P	42.795	W -90	90.288	0.000	0.000	0.000	21.788	0	0.000	0
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	36.0	97.63	51.37	D 4P	46.306	W -90	67.608	0.000	0.000	0.000	20.919	0	0.000	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	62.19	56.21	D 6P	46.620	W -90	62.208	0.000	0.000	0.000	20.553	0	0.000	0
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	61.54	56.09	D 8X	46.524	W 90	62.208	0.000	0.000	0.000	20.207	0	0.000	0
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	86.26	33.74	D 9X	32.846	W 90	73.008	0.000	0.000	0.000	30.178	0	0.000	0
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	82.40	33.38	D 11P	32.491	W -90	73.008	0.000	0.000	0.000	29.346	0	0.000	0
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	72.19	30.33	D 13P	29.519	W -90	73.008	0.000	0.000	0.000	28.573	0	0.000	0
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	66.32	29.26	D 15P	28.477	W -90	73.008	0.000	0.000	0.000	27.864	0	0.000	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	76.24	22.70	D 17P	15.562	W -90	51.408	0.000	0.000	0.000	16.451	0	0.000	0
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	66.61	20.73	D 19P	14.210	W -90	51.408	0.000	0.000	0.000	15.962	0	0.000	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	89.48	20.73	D 21P	12.715	W -90	46.008	0.000	0.000	0.000	15.495	0	0.000	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	79.50	19.24	D 23P	11.802	W -90	46.008	0.000	0.000	0.000	15.054	0	0.000	0
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	72.91	18.39	D 25P	11.282	W -90	46.008	0.000	0.000	0.000	14.641	0	0.000	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	37.68	11.24	D 28X	5.472	W 90	36.504	0.000	0.000	0.000	16.516	0	0.000	0
Diag S15	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	30.17	9.93	D 30X	4.833	W 90	36.504	0.000	0.000	0.000	15.548	0	0.000	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	29.02	9.12	D 32X	3.782	W 90	31.104	0.000	0.000	0.000	13.638	0	0.000	0
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	21.66	7.23	D 34X	2.997	W 90	31.104	0.000	0.000	0.000	12.834	0	0.000	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	99.94	52.03	H 1X	43.158	W -45	62.208	0.000	0.000	0.000	21.458	0	0.000	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	65.70	53.08	H 3X	44.024	W -45	62.208	0.000	0.000	0.000	13.278	0	0.000	0
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	61.20	51.97	H 5X	43.104	W -45	62.208	0.000	0.000	0.000	12.250	0	0.000	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	96.04	49.98	H 7X	37.859	W -45	56.808	0.000	0.000	0.000	11.222	0	0.000	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	92.23	23.84	H 9X	18.055	W -90	56.808	0.000	0.000	0.000	15.292	0	0.000	0
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	72.09	21.41	H 11P	16.218	W 90	56.808	0.000	0.000	0.000	13.750	0	0.000	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	74.46	19.46	H 13X	13.341	W -90	51.408	0.000	0.000	0.000	12.208	0	0.000	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	57.06	18.19	H 15P	12.470	W 90	51.408	0.000	0.000	0.000	10.667	0	0.000	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	41.33	14.54	H 17P	9.968	W 90	51.408	0.000	0.000	0.000	9.896	0	0.000	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	32.09	12.68	H 19X	8.691	W -90	51.408	0.000	0.000	0.000	9.125	0	0.000	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	24.43	10.78	H 21X	7.387	W -90	51.408	0.000	0.000	0.000	8.354	0	0.000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	20.13	9.94	H 23P	6.811	W 90	51.408	0.000	0.000	0.000	7.583	0	0.000	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	14.34	8.79	H 25X	6.027	W -90	51.408	0.000	0.000	0.000	6.813	0	0.000	0
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	14.69	6.43	H 28P	2.426	W 90 Ice	28.296	0.000	0.000	0.000	12.371	0	0.000	0
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	2.16	2.14	H 30P	1.624	W 90 Ice	56.808	0.000	0.000	0.000	11.116	0	0.000	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	3.09	3.09	H 31P	1.166	W 45 Ice	28.296	0.000	0.000	0.000	10.058	0	0.000	0
Horiz 17	C8x11.5	CHN	C8x11.5	36.0	1.92	0.70	H 34X	0.677	W 0	73.008	0.000	0.000	0.000	9.000	0	0.000	0
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	98.25	34.60	LD 2Y	23.714	W -45 Ice	51.408	0.000	0.000	0.000	12.834	0	0.000	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	84.25	48.30	LD 3P	47.013	W -90	73.008	0.000	0.000	0.000	12.834	0	0.000	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	56.53	41.11	LD 8Y	25.221	W -45	46.008	0.000	0.000	0.000	11.516	0	0.000	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	96.43	49.94	LD 9P	30.632	W -90	46.008	0.000	0.000	0.000	8.184	0	0.000	0
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	79.62	46.55	LD 11X	38.608	W -90	62.208	0.000	0.000	0.000	9.679	0	0.000	0
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	70.68	30.70	LD 14Y	25.462	W -45	62.208	0.000	0.000	0.000	10.941	0	0.000	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	94.28	50.36	LD 15P	30.893	W -90	46.008	0.000	0.000	0.000	8.040	0	0.000	0
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	95.65	55.36	LD 17X	37.948	W -90	51.408	0.000	0.000	0.000	9.334	0	0.000	0
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	66.46	30.95	LD 20Y	25.672	W -45	62.208	0.000	0.000	0.000	10.386	0	0.000	0
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	94.30	50.04	LD 21P	30.696	W -90	46.008	0.000	0.000	0.000	7.905	0	0.000	0
LD 12	B/B L2.5"x2.5"x0.375"	DAE	2.5X2.5X0.38	36.0	78.21	37.27	LD 23X	37.248	W -90	74.952	0.000	0.000	0.000	9.005	0	0.000	0
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	53.77	17.52	LH 2X	13.268	W 90 Ice	56.808	0.000	0.000	0.000	21.458	0	0.000	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	64.94	37.18	LH 4Y	28.158	W -45	56.808	0.000	0.000	0.000	10.806	0	0.000	0
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	36.0	85.13	25.02	LH 6Y	27.666	W -45	82.944	0.000	0.000	0.000	10.003	0	0.000	0
LH 4	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	76.08	27.55	LH 8Y	26.815	W -45	73.008	0.000	0.000	0.000	9.200	0	0.000	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00	0.00	BR 11X	1.113	W -45	0.216	0.000	0.000	0.000	19.445	0	0.000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W 0	97.44	D 1P	Angle
W 180	97.92	D 1Y	Angle
W 45	96.78	H 2XY	Angle
W -45	99.94	H 2Y	Angle
W 90	98.35	D 2P	Angle
W -90	98.49	D 2X	Angle
W 0 Ice	90.68	D 3P	Angle
W 180 Ice	91.33	D 3Y	Angle
W 45 Ice	91.71	H 2XY	Angle
W -45 Ice	94.71	H 2Y	Angle
W 90 Ice	91.55	D 4P	Angle
W -90 Ice	91.90	D 4X	Angle

*** Weight of structure (lbs):

Weight of Angles*Section DLF:	119944.4
Weight of Equipment:	570.0
Total:	120514.4

*** End of Report

Site:	88018
Carrier:	Sprint Nextel

Engineer:	SAW
Date:	01/13/11

Windspeed:	85 mph
Site Name:	Stamford (Katoona), CT

m: -0.12333 Taper Change: 300

$FW_{@Base}$ 46 $FW_{@Top}$ 9

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	Drop Sub-Brace (Y/N)	Vert	Drop	Height	Type	Count	Z-Elev.	FW	Sub Brace		Built-Up Diag./sect.	Built-Up Diag. Flag	Built-Up Vector
0	XY-Symmetry	23	23	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed			7.03	25	1	1	0	46	3	1: Built up Horizs. w/ A	2	2	0
1	XY-Symmetry	21.45833	21.45833	25	Free	Free	Free	Free	Free	Free			7.03	25	2	2	25	42.91667	3	2: Built up Horizs. w/ M	3	5	2
2	XY-Symmetry	19.91667	19.91667	50	Free	Free	Free	Free	Free	Free			7.03	25	2	3	50	39.83333	3	A: Typical A brace	3	8	5
3	XY-Symmetry	18.375	18.375	75	Free	Free	Free	Free	Free	Free			7.03	25	2	4	75	36.75	3	X: Typical X brace	3	11	8
4	XY-Symmetry	16.83333	16.83333	100	Free	Free	Free	Free	Free	Free				25	A	5	100	33.66667	2		0		
5	XY-Symmetry	15.29167	15.29167	125	Free	Free	Free	Free	Free	Free				25	A	6	125	30.58333	2	Drop: Use only for types 1 & 2.	0		
6	XY-Symmetry	13.75	13.75	150	Free	Free	Free	Free	Free	Free				25	A	7	150	27.5	2		0		
7	XY-Symmetry	12.20833	12.20833	175	Free	Free	Free	Free	Free	Free				25	A	8	175	24.41667	2		0		
8	XY-Symmetry	10.66667	10.66667	200	Free	Free	Free	Free	Free	Free				12.5	A	9	200	21.33333	1		0		
9	XY-Symmetry	9.895833	9.895833	212.5	Free	Free	Free	Free	Free	Free				12.5	A	10	212.5	19.79167	1		0		
10	XY-Symmetry	9.125	9.125	225	Free	Free	Free	Free	Free	Free				12.5	A	11	225	18.25	1		0		
11	XY-Symmetry	8.354167	8.354167	237.5	Free	Free	Free	Free	Free	Free				12.5	A	12	237.5	16.70833	1		0		
12	XY-Symmetry	7.583333	7.583333	250	Free	Free	Free	Free	Free	Free				12.5	A	13	250	15.16667	1		0		
13	XY-Symmetry	6.8125	6.8125	262.5	Free	Free	Free	Free	Free	Free		1		10.17	X	14	262.5	13.625	1		0		
14	XY-Symmetry	6.18535	6.18535	272.67	Free	Free	Free	Free	Free	Free		1		10.17	X	15	272.67	12.3707	1	Sections: 17	0		
15	XY-Symmetry	5.5582	5.5582	282.84	Free	Free	Free	Free	Free	Free		1		8.58	X	16	282.84	11.1164	1		0		
16	XY-Symmetry	5.0291	5.0291	291.42	Free	Free	Free	Free	Free	Free		1		8.58	X	17	291.42	10.0582	1		0		
17	XY-Symmetry	4.5	4.5	300	Free	Free	Free	Free	Free	Free						18	300	9					

																Type
A1	Y-Symmetry	21.45833	0	25	Free	Free	Free	Free	Free	Free		1	1	25	42.91667	1
A2	X-Symmetry	0	21.45833	25	Free	Free	Free	Free	Free	Free		1	2	25	42.91667	1
A3	XY-Symmetry	19.91667	6.638889	50	Free	Free	Free	Free	Free	Free		2	3	50	39.83333	2
A4	XY-Symmetry	6.638889	19.91667	50	Free	Free	Free	Free	Free	Free		2	4	50	39.83333	2
A5	XY-Symmetry	18.375	6.125	75	Free	Free	Free	Free	Free	Free		3	5	75	36.75	2
A6	XY-Symmetry	6.125	18.375	75	Free	Free	Free	Free	Free	Free		3	6	75	36.75	2
A7	XY-Symmetry	16.83333	5.611111	100	Free	Free	Free	Free	Free	Free		4	7	100	33.66667	2
A8	XY-Symmetry	5.611111	16.83333	100	Free	Free	Free	Free	Free	Free		4	8	100	33.66667	2
A9	Y-Symmetry	15.29167	0	125	Free	Free	Free	Free	Free	Free		5	9	125	30.58333	A
A10	X-Symmetry	0	15.29167	125	Free	Free	Free	Free	Free	Free		5	10	125	30.58333	A
A11	Y-Symmetry	13.75	0	150	Free	Free	Free	Free	Free	Free		6	11	150	27.5	A
A12	X-Symmetry	0	13.75	150	Free	Free	Free	Free	Free	Free		6	12	150	27.5	A
A13	Y-Symmetry	12.20833	0	175	Free	Free	Free	Free	Free	Free		7	13	175	24.41667	A
A14	X-Symmetry	0	12.20833	175	Free	Free	Free	Free	Free	Free		7	14	175	24.41667	A
A15	Y-Symmetry	10.66667	0	200	Free	Free	Free	Free	Free	Free		8	15	200	21.33333	A
A16	X-Symmetry	0	10.66667	200	Free	Free	Free	Free	Free	Free		8	16	200	21.33333	A
A17	Y-Symmetry	9.895833	0	212.5	Free	Free	Free	Free	Free	Free		9	17	212.5	19.79167	A
A18	X-Symmetry	0	9.895833	212.5	Free	Free	Free	Free	Free	Free		9	18	212.5	19.79167	A
A19	Y-Symmetry	9.125	0	225	Free	Free	Free	Free	Free	Free		10	19	225	18.25	A
A20	X-Symmetry	0	9.125	225	Free	Free	Free	Free	Free	Free		10	20	225	18.25	A
A21	Y-Symmetry	8.354167	0	237.5	Free	Free	Free	Free	Free	Free		11	21	237.5	16.70833	A
A22	X-Symmetry	0	8.354167	237.5	Free	Free	Free	Free	Free	Free		11	22	237.5	16.70833	A
A23	Y-Symmetry	7.583333	0	250	Free	Free	Free	Free	Free	Free		12	23	250	15.16667	A
A24	X-Symmetry	0	7.583333	250	Free	Free	Free	Free	Free	Free		12	24	250	15.16667	A
A25	Y-Symmetry	6.8125	0	262.5	Free	Free	Free	Free	Free	Free		13	25	262.5	13.625	A
A26	X-Symmetry	0	6.8125	262.5	Free	Free	Free	Free	Free	Free		13	26	262.5	13.625	A
												14	27	272.67		X
												14	28	272.67		X
												15	29	282.84		X
												15	30	282.84		X
												16	31	291.42		X
												16	32	291.42		X
												17	33	300		X
												17	34	300		X
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												23	45			

11

H1	XY-Symmetry	21.89185	10.72917	17.97	Free	Free	Free	Free	Free	Free
H2	XY-Symmetry	10.72917	21.89185	17.97	Free	Free	Free	Free	Free	Free
H5	XY-Symmetry	20.35018	10.80612	42.97	Free	Free	Free	Free	Free	Free
H6	XY-Symmetry	10.80612	20.35018	42.97	Free	Free	Free	Free	Free	Free
H7	Y-Symmetry	20.35018	0	42.97	Free	Free	Free	Free	Free	Free
H8	X-Symmetry	0	20.35018	42.97	Free	Free	Free	Free	Free	Free
H9	XY-Symmetry	18.80852	10.00322	67.97	Free	Free	Free	Free	Free	Free
H10	XY-Symmetry	10.00322	18.80852	67.97	Free	Free	Free	Free	Free	Free
H11	Y-Symmetry	18.80852	0	67.97	Free	Free	Free	Free	Free	Free
H12	X-Symmetry	0	18.80852	67.97	Free	Free	Free	Free	Free	Free
H13	XY-Symmetry	17.26685	9.200317	92.97	Free	Free	Free	Free	Free	Free
H14	XY-Symmetry	9.200317	17.26685	92.97	Free	Free	Free	Free	Free	Free
H15	Y-Symmetry	17.26685	0	92.97	Free	Free	Free	Free	Free	Free
H16	X-Symmetry	0	17.26685	92.97	Free	Free	Free	Free	Free	Free

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		40	80	

	Lookup	Count	Type	$H_{Top\ Section}$	FW_{Top}	$FW_{Lower\ H}$	Drop	$L_{Lower\ H}$	Type	FW_{Base}	x	$H_{Section}$
1	1	1	1	25	42.91667	43.7837	7.03	21.45833	1	46	4.456239	25
	2	1	2	25	42.91667	43.7837	7.03	21.45833	1	46	4.456239	25
	3	1	3	25	42.91667	43.7837	7.03	21.45833	1	46	4.456239	25
	4	1	4	25	42.91667	43.7837	7.03	21.45833	1	46	4.456239	25
2	1	2	5	50	39.83333	40.70037	7.03	21.61223	2	42.91667	4.167228	25
	2	2	6	50	39.83333	40.70037	7.03	21.61223	2	42.91667	4.167228	25
	3	2	7	50	39.83333	40.70037	7.03	21.61223	2	42.91667	4.167228	25
	4	2	8	50	39.83333	40.70037	7.03	21.61223	2	42.91667	4.167228	25
3	1	3	9	75	36.75	37.61703	7.03	20.00643	2	39.83333	3.878217	25
	2	3	10	75	36.75	37.61703	7.03	20.00643	2	39.83333	3.878217	25
	3	3	11	75	36.75	37.61703	7.03	20.00643	2	39.83333	3.878217	25
	4	3	12	75	36.75	37.61703	7.03	20.00643	2	39.83333	3.878217	25
4	1	4	13	100	33.66667	34.5337	7.03	18.40063	2	36.75	3.589206	25
	2	4	14	100	33.66667	34.5337	7.03	18.40063	2	36.75	3.589206	25
	3	4	15	100	33.66667	34.5337	7.03	18.40063	2	36.75	3.589206	25
	4	4	16	100	33.66667	34.5337	7.03	18.40063	2	36.75	3.589206	25
5	1	5	17	A								
	2	5	18	A								
	3	5	19	A								
	4	5	20	A								
6	1	6	21	A								
	2	6	22	A								
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7	1	7	25	A								
	2	7	26	A								
	3	7	27	A								
	4	7	28	A								
8	1	8	29	A								
	2	8	30	A								
	3	8	31	A								
	4	8	32	A								
9	1	9	33	A								
	2	9	34	A								
	3	9	35	A								
	4	9	36	A								
10	1	10	37	A								
	2	10	38	A								
	3	10	39	A								
	4	10	40	A								
11	1	11	41	A								
	2	11	42	A								
	3	11	43	A								
	4	11	44	A								
12	1	12	45	A								
	2	12	46	A								
	3	12	47	A								
	4	12	48	A								
13	1	13	49	A								
	2	13	50	A								
	3	13	51	A								
	4	13	52	A								
14	1	14	53	X								
	2	14	54	X								

	3	14	55	X
	4	14	56	X
15	1	15	57	X
	2	15	58	X
	3	15	59	X
	4	15	60	X

Legs

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations *(ft)*	Type of Shape [1]	Diameter or Length *(in)*	Thickness [2] *(in)*	F_y *(ksi)*
1	0-25	L	8	1.125	36
2	25-50	L	8	1.125	36
3	50-75	L	8	1.125	36
4	75-100	L	8	1	36
5	100-125	L	8	0.875	36
6	125-150	L	8	0.875	36
7	150-175	L	8	0.75	36
8	175-200	L	8	0.625	36
9	200-212.5	L	6	0.75	36
10	212.5-225	L	6	0.75	36
11	225-237.5	L	6	0.5625	36
12	237.5-250	L	6	0.5625	36
13	250-262.5	L	6	0.4375	36
14	262.5-272.6	L	5	0.4375	36
15	272.67-282.8	L	5	0.4375	36
16	282.84-291.4	L	5	0.3125	36
17	291.42-300	L	5	0.3125	36
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Notes:

[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schiffle

[2] For Solid Round Leg Shapes Thickness Equals Zero.

[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)	Is Diag. Tension Only? (Y/N)
1	0-25	2L		3	4	0.3125	36	
2	25-50	2L		3	3.5	0.25	36	
3	50-75	2L		2.5	3.5	0.25	36	
4	75-100	2L		2.5	3.5	0.25	36	
5	100-125	2L		3	4	0.25	36	
6	125-150	2L		3	4	0.25	36	
7	150-175	2L		3	4	0.25	36	
8	175-200	2L		3.5	3.5	0.25	36	
9	200-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225	2L		2.5	2.5	0.25	36	
11	225-237.5	2L		2.5	2	0.25	36	
12	237.5-250	2L		2.5	2	0.25	36	
13	250-262.5	2L		2.5	2	0.25	36	
14	262.5-272.6	L		3.5	3.5	0.25	36	
15	272.67-282.8	L		3.5	3.5	0.25	36	
16	282.84-291.4	L		3	3	0.25	36	
17	291.42-300	L		3	3	0.25	36	
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Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal pl

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)	
1	0-25	2L		3.5	2.5	0.25	36	
2	25-50	2L		3.5	2.5	0.25	36	
3	50-75	2L		3.5	2.5	0.25	36	
4	75-100	2L		3	2.5	0.25	36	
5	100-125	2L		3	2.5	0.25	36	
6	125-150	2L		3	2.5	0.25	36	
7	150-175	2L		2.5	2.5	0.25	36	
8	175-200	2L		2.5	2.5	0.25	36	
9	200-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225	2L		2.5	2.5	0.25	36	
11	225-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250	2L		2.5	2.5	0.25	36	
13	250-262.5	2L		2.5	2.5	0.25	36	
14	262.5-272.6	L		3	2.5	0.25	36	
15	272.67-282.8	2L		3	2.5	0.25	36	
16	282.84-291.4	L		3	2.5	0.25	36	
17	291.42-300	C		8	11.5		36	
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Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle, **2L** = Double-Angle, **C** = Channel, **W** = W Sh

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)
1	0-25	2L		3	2	0.25	36
2	0-25	2L		4	3	0.25	36
3	25-50	2L		2.5	2	0.25	36
4	25-50	2L		2.5	2	0.25	36
5	25-50	2L		3	3	0.25	36
6	50-75	2L		3	3	0.25	36
7	50-75	2L		2.5	2	0.25	36
8	50-75	2L		3	2	0.25	36
9	75-100	2L		3	3	0.25	36
10	75-100	2L		2.5	2	0.25	36
11	75-100	2L		2.5	2.5	0.375	36
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Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Ec

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal pla

Tower Section #	Section Elevations *(ft)*	Type of Shape [1]	Diameter [2] *(in)*	Web Length [3] *(in)*	Flange Length [3] *(in)*	Thickness *(in)*	F_y *(ksi)*	Is Horiz. Tension Only? *(Y/N)*
1	0-25	2L		2.5	3	0.25	36	Y
2	25-50	2L		2.5	3	0.25	36	
3	50-75	2L		2.5	3	0.375	36	
4	75-100	2L		3.5	3.5	0.25	36	
5								
6								
7								
8								
9								
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Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

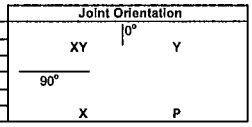
[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid
C	Conical Horn

Joint Orientation



Site No.:	88018
Engineer:	SAW
Date:	01/13/11
Carrier:	Sprint Nextel

Dish Height (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation
311	4	90	R	X
25	2	180	R	P
120	4	90	S	X
300	2	90	H	XY
300	1	0	H	Y
300	1	270	H	X

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lb/ft)	Part of Face Solidity Ratio	Include In Wind Load
Marcus-311	265	300	1	Round	1.11	3.49	0.54	No	No
Bell-303	265	300	1	Round	1.11	3.49	0.54	No	No
Lojack-302	265	300	1	Round	1.98	6.22	1.08	No	Yes
Marcus-300	265	300	1	Round	1.55	4.87	0.66	No	No
AT&T-294	265	294	6	Round	1.98	6.22	2.16	Yes	Yes
Qualcomm-28	265	289	1	Round	4	12.57	5.39	No	No
USCG-271	265	271	2	Round	1.11	3.49	0.54	No	No
XM-269	265	269	1	Round	5.02	15.77	5.39	No	No
Weight-265	5	265	20	Round	1.98	6.22	1.08	No	No
T-Mobile-266	5	265	12	Round	1.98	6.22	2.16	Yes	Yes
AT&T-248	5	248	3	Round	1.98	6.22	1.08	No	No
USCG-242	5	242	2	Round	1.11	3.49	0.54	No	No
AT&T-235	5	235	9	Round	1.98	6.22	1.08	No	No
Sprint-224	5	224	15	Round	1.98	6.22	1.08	Yes	Yes
Lojack-216	5	216	1	Round	0.44	1.38	0.08	No	No
USCG-200	5	200	1	Round	1.11	3.49	0.54	No	No
Marcus-200	5	200	2	Round	1.55	4.87	0.66	No	No
USA Mob-180	5	180	3	Round	1.11	3.49	0.54	No	No
Metro-160	5	160	12	Round	1.98	6.22	1.08	No	No
MetroB-160	5	160	3	Round	0.44	1.38	0.08	No	No
Sprint-148	5	148	9	Round	1.98	6.22	1.08	No	No
Sensus-137	5	137	1	Round	1.11	3.49	0.54	No	No
Marcus-100	5	100	1	Round	1.55	4.87	0.66	No	No
XM-25	5	25	1	Round	1.11	3.49	0.54	No	No
Lojack-10	5	10	1	Round	0.44	1.38	0.08	No	No
USA Mob-120	5	120	1	Round	0.63	1.98	0.14	No	No
USA Mob-6	5	6	1	Round	0.3	0.94	0.06	No	No
Metro-160B	5	160	3	Round	0.44	1.38	0.08	No	No
Clearwire-167	5	167	1	Round	2.375	7.46	3.65	No	No
Clearwire-300	5	300	2	Round	1.11	3.49	0.54	Yes	Yes
ClearwireB-30	5	300	1	Round	1.11	3.49	0.54	No	No

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)
4' RAD 1 @311'	17X	4 ft RAD Dish	90
2' RAD 2 @25'	1P	2 ft RAD Dish	180
4' STD 3 @120'	5X	4 ft STD Dish	90
2' HP 4 @300'	17XY	2 ft HP Dish	90
1' HP 6 @300'	17Y	1 ft HP Dish	0
1' HP 7 @300'	17X	1 ft HP Dish	270

Coax	Dia. (in)	Weight(lb/ft)
1/4"	0.3	0.064
3/8"	0.44	0.084
1/2"	0.63	0.144
7/8"	1.11	0.544
1-1/4"	1.55	0.664
1-5/8"	1.98	1.08
2-1/4"	2.38	1.16
WC281	3.11	5.39

Site:	88018
Carrier:	Sprint Nextel

Engineer:	SAW
Date:	01/13/11

Section Label	Section Color	Joint Defining Bottom Section	Dead Load Adj. Factor				Adj. Factor Flat	Adj. Factor Round	Area Multiplier
0-25		0P	1.252248				1.252248	1.252248	1
25-50		1P	1.234112				1.234112	1.234112	1
50-75		2P	1.229416				1.229416	1.229416	1
75-100		3P	1.223885				1.223885	1.223885	1
100-125		4P	1.279022				1.279022	1.279022	1
125-150		5P	1.265796				1.265796	1.265796	1
150-175		6P	1.257222				1.257222	1.257222	1
175-200		7P	1.232462				1.232462	1.232462	1
200-212.5		8P	1.224989				1.224989	1.224989	1
212.5-225		9P	1.219136				1.219136	1.219136	1
225-237.5		10P	1.213172				1.213172	1.213172	1
237.5-250		11P	1.207112				1.207112	1.207112	1
250-262.5		12P	1.200971				1.200971	1.200971	1
262.5-272.67		13P	1.203142				1.203142	1.203142	1
272.67-282.84		14P	1.196498				1.196498	1.196498	1
282.84-291.42		15P	1.214686				1.214686	1.214686	1
291.42-300		16P	1.167358				1.167358	1.167358	1

Site:	88018
Carrier:	Sprint Nextel

Engineer:	SAW
Date:	01/13/11

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	A 36	Beam	Leg	None
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	A 36	Beam	Leg	None
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	A 36	Beam	Other	None
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	A 36	Beam	Other	None
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S15	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 17	C8x11.5	CHN	C8x11.5	A 36	Beam	Other	None
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	A 36	Beam	Other	None
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 12	B/B L2.5"x2.5"x0.375	DAE	2.5X2.5X0.38	A 36	Beam	Other	None
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	T-Only	Other	None
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	A 36	Beam	Other	None

LH 4	B/B L3.5"x3.5"x0.25" DAE	3.5X3.5X0.25	A 36	Beam	Other	None
DUM 1	Dummy Bracing Mem DUM	0.1X0.1X1	A 36	Beam	Fictitious	None

Site: 88018	Engineer: SAW
Carrier: Sprint Nextel	Date: 01/13/11

Bolt Type: X/X A325 N Ss X/X A325 N Ds
X/X A325 X Ss X/X A325 X Ds

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	Bolt Type	# Bolts	# Bolt Holes	# Shear Planes	Connect Leg
L 1	Leg S1		XY-Symmetry	0P	1P	1	4	0.2812	0.2812	0.2812					
L 2	Leg S2		XY-Symmetry	1P	2P	1	4	0.2812	0.2812	0.2812					
L 3	Leg S3		XY-Symmetry	2P	3P	1	4	0.2812	0.2812	0.2812					
L 4	Leg S4		XY-Symmetry	3P	4P	1	4	0.2812	0.2812	0.2812					
L 5	Leg S5		XY-Symmetry	4P	5P	1	4	0.333333	0.333333	0.333333					
L 6	Leg S6		XY-Symmetry	5P	6P	1	4	0.333333	0.333333	0.333333					
L 7	Leg S7		XY-Symmetry	6P	7P	1	4	0.333333	0.333333	0.333333					
L 8	Leg S8		XY-Symmetry	7P	8P	1	4	0.333333	0.333333	0.333333					
L 9	Leg S9		XY-Symmetry	8P	9P	1	4	0.5	0.5	0.5					
L 10	Leg S10		XY-Symmetry	9P	10P	1	4	0.5	0.5	0.5					
L 11	Leg S11		XY-Symmetry	10P	11P	1	4	0.5	0.5	0.5					
L 12	Leg S12		XY-Symmetry	11P	12P	1	4	0.5	0.5	0.5					
L 13	Leg S13		XY-Symmetry	12P	13P	1	4	0.5	0.5	0.5					
L 14	Leg S14		XY-Symmetry	13P	14P	1	4	0.5	0.5	0.5					
L 15	Leg S15		XY-Symmetry	14P	15P	1	4	0.5	0.5	0.5					
L 16	Leg S16		XY-Symmetry	15P	16P	1	4	0.5	0.5	0.5					
L 17	Leg S17		XY-Symmetry	16P	17P	1	4	0.5	0.5	0.5					

Count	Type	Brace	
1	0	1	3	0
2	0	1	3	0
3	1	2	3	0
4	1	2	3	0
5	2	2	3	0
6	2	2	3	0
7	3	2	3	0
8	3	2	3	0
9	4	A	2	0
10	4	A	2	0
11	5	A	2	0
12	5	A	2	0
13	6	A	2	0
14	6	A	2	0
15	7	A	2	0
16	7	A	2	0
17	8	A	1	0
18	8	A	1	0
19	9	A	1	0
20	9	A	1	0
21	10	A	1	0
22	10	A	1	0
23	11	A	1	0
24	11	A	1	0
25	12	A	1	0
26	12	A	1	0
27	13	X	1	0
28	13	X	1	0
29	14	X	1	0
30	14	X	1	0
31	15	X	1	0
32	15	X	1	0
33	16	X	1	0
34	16	X	1	0

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	Bolt Type	# Bolts	# Bolt Holes	# Shear Planes	Connect Leg
D 1	Diag S1		XY-Symmetry	0P	H2P	1	5	0.333333	1	0.333333					
D 2	Diag S1		XY-Symmetry	0P	H1P	1	5	0.333333	1	0.333333					
D 3	Diag S2		XY-Symmetry	1P	H6P	1	5	0.333333	0.867	0.333333					
D 4	Diag S2		XY-Symmetry	1P	H5P	1	5	0.333333	0.867	0.333333					
D 5	Diag S3		XY-Symmetry	2P	H10P	1	5	0.333333	0.867	0.333333					
D 6	Diag S3		XY-Symmetry	2P	H9P	1	5	0.333333	0.867	0.333333					
D 7	Diag S4		XY-Symmetry	3P	H14P	1	5	0.333333	0.867	0.333333					
D 8	Diag S4		XY-Symmetry	3P	H13P	1	5	0.333333	0.867	0.333333					
D 9	Diag S5		XY-Symmetry	4P	A9P	1	6	0.333333	0.666667	0.333333					
D 10	Diag S5		XY-Symmetry	4P	A10P	1	6	0.333333	0.666667	0.333333					
D 11	Diag S6		XY-Symmetry	5P	A11P	1	6	0.333333	0.666667	0.333333					
D 12	Diag S6		XY-Symmetry	5P	A12P	1	6	0.333333	0.666667	0.333333					
D 13	Diag S7		XY-Symmetry	6P	A13P	1	6	0.333333	0.666667	0.333333					
D 14	Diag S7		XY-Symmetry	6P	A14P	1	6	0.333333	0.666667	0.333333					
D 15	Diag S8		XY-Symmetry	7P	A15P	1	6	0.32	0.59	0.32					
D 16	Diag S8		XY-Symmetry	7P	A16P	1	6	0.32	0.59	0.32					
D 17	Diag S9		XY-Symmetry	8P	A17P	1	6	0.5	1	0.5					
D 18	Diag S9		XY-Symmetry	8P	A18P	1	6	0.5	1	0.5					
D 19	Diag S10		XY-Symmetry	9P	A19P	1	6	0.5	1	0.5					
D 20	Diag S10		XY-Symmetry	9P	A20P	1	6	0.5	1	0.5					
D 21	Diag S11		XY-Symmetry	10P	A21P	1	6	0.5	1	0.5					
D 22	Diag S11		XY-Symmetry	10P	A22P	1	6	0.5	1	0.5					
D 23	Diag S12		XY-Symmetry	11P	A23P	1	6	0.5	1	0.5					
D 24	Diag S12		XY-Symmetry	11P	A24P	1	6	0.5	1	0.5					
D 25	Diag S13		XY-Symmetry	12P	A25P	1	6	0.5	1	0.5					
D 26	Diag S13		XY-Symmetry	12P	A26P	1	6	0.5	1	0.5					
D 27	Diag S14		XY-Symmetry	13P	14Y	1	5	0.52	0.75	0.52					
D 28	Diag S14		XY-Symmetry	13P	14X	1	5	0.52	0.75	0.52					
D 29	Diag S15		XY-Symmetry	14P	15Y	1	5	0.52	0.75	0.52					
D 30	Diag S15		XY-Symmetry	14P	15X	1	5	0.52	0.75	0.52					
D 31	Diag S16		XY-Symmetry	15P	16Y	1	5	0.52	0.75	0.52					
D 32	Diag S16		XY-Symmetry	15P	16X	1	5	0.52	0.75	0.52					
D 33	Diag S17		XY-Symmetry	16P	17Y	1	5	0.52	0.75	0.52					
D 34	Diag S17		XY-Symmetry	16P	17X	1	5	0.52	0.75	0.52					

Count	Type	Vert	
1	1	1	0
2	1	1	0
3	2	2	0
4	2	2	0
5	3	2	0
6	3	2	0
7	4	2	0
8	4	2	0
9	5	A	0
10	5	A	0
11	6	A	0
12	6	A	0
13	7	A	0
14	7	A	0
15	8	A	0
16	8	A	0
17	9	A	0
18	9	A	0
19	10	A	0
20	10	A	0
21	11	A	0
22	11	A	0
23	12	A	0
24	12	A	0
25	13	A	0

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	Bolt Type	# Bolts	# Bolt Holes	# Shear Planes	Connect Leg
H 1	Horiz 1		XY-Symmetry	1P	A1P	1	5	0.5	0.5	0.5					
H 2	Horiz 1		XY-Symmetry	1P	A2P	1	5	0.5	0.5	0.5					
H 3	Horiz 2		XY-Symmetry	2P	A3P	1	5	0.5	0.5	0.5					
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	5	0.5	0.5	0.5					
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	5	0.5	0.5	0.5					
H 6	Horiz 3		XY-Symmetry	3P	A6P	1	5	0.5	0.5	0.5					
H 7	Horiz 4		XY-Symmetry	4P	A7P	1	5	0.5	1	0.5					
H 8	Horiz 4		XY-Symmetry	4P	A8P	1	5	0.5	1	0.5					
H 9	Horiz 5		XY-Symmetry	5P	A9P	1	6	1	1	1					
H 10	Horiz 5		XY-Symmetry	5P	A10P	1	6	1	1	1					
H 11	Horiz 6		XY-Symmetry	6P	A11P	1	6	1	1	1					
H 12	Horiz 6		XY-Symmetry	6P	A12P	1	6	1	1	1					
H 13	Horiz 7		XY-Symmetry	7P	A13P	1	6	1	1	1					
H 14	Horiz 7		XY-Symmetry	7P	A14P	1	6	1	1	1					
H 15	Horiz 8		XY-Symmetry	8P	A15P	1	6	1	1	1					
H 16	Horiz 8		XY-Symmetry	8P	A16P	1	6	1	1	1					
H 17	Horiz 9		XY-Symmetry	9P	A17P	1	6	1	1	1					
H 18	Horiz 9		XY-Symmetry	9P	A18P	1	6	1	1	1					
H 19	Horiz 10		XY-Symmetry	10P	A19P	1	6	1	1	1					
H 20	Horiz 10		XY-Symmetry	10P	A20P	1	6	1	1	1					
H 21	Horiz 11		XY-Symmetry	11P	A21P	1	6	1	1	1					
H 22	Horiz 11		XY-Symmetry	11P	A22P	1	6	1	1	1					
H 23	Horiz 12		XY-Symmetry	12P	A23P	1	6	1	1	1					
H 24	Horiz 12		XY-Symmetry	12P	A24P	1	6	1	1	1					
H 25	Horiz 13		XY-Symmetry	13P	A25P	1	6	1	1	1					

H 26	Horiz 13	XY-Symmetry	13P	A26P	1	6	1	1	1	26	13	A	0
H 27	Horiz 14	Y-Symmetry	14P	14X	1	6	0.5	1	0.5	27	14	X	1
H 28	Horiz 14	X-Symmetry	14P	14Y	1	6	0.5	1	0.5	28	14	X	1
H 29	Horiz 15	Y-Symmetry	15P	15X	1	6	0.5	1	0.5	29	15	X	1
H 30	Horiz 15	X-Symmetry	15P	15Y	1	6	0.5	1	0.5	30	15	X	1
H 31	Horiz 16	Y-Symmetry	16P	16X	1	6	0.5	1	0.5	31	16	X	1
H 32	Horiz 16	X-Symmetry	16P	16Y	1	6	0.5	1	0.5	32	16	X	1
H 33	Horiz 17	Y-Symmetry	17P	17X	1	6	0.5	1	0.5	33	17	X	1
H 34	Horiz 17	X-Symmetry	17P	17Y	1	6	0.5	1	0.5	34	17	X	1
										35	18		
										36	18		
										37	19		
										38	19		
										39	20		
										40	20		
										41	21		
										42	21		
										43	22		
										44	22		
										45	23		
										46	23		
										47	24		
										48	24		
										49	25		
										50	25		
										51	26		
										52	26		
										53	27		
										54	27		
										55	28		
										56	28		
										57	29		
										58	29		
										59	30		
										60	30		
										61	31		
										62	31		
										63	32		
										64	32		
										65	33		
										66	33		
										67	34		
										68	34		
										69	35		
										70	35		
										71	36		
										72	36		
										73	37		
										74	37		
										75	38		
										76	38		
										77	39		
										78	39		
										79	40		
										80	40		

										1	1	1	
										2	1	1	
H 37	Horiz 2	Y-Symmetry	A3P	A3X	1	5	1	1	1	3	2	2	0
H 38	Horiz 2	X-Symmetry	A4P	A4Y	1	5	1	1	1	4	2	2	0
H 39	Horiz 3	Y-Symmetry	A5P	A5X	1	5	1	1	1	5	3	2	0
H 40	Horiz 3	X-Symmetry	A6P	A6Y	1	5	1	1	1	6	3	2	0
H 41	Horiz 4	Y-Symmetry	A7P	A7X	1	5	1	1	1	7	4	2	0
H 42	Horiz 4	X-Symmetry	A8P	A8Y	1	5	1	1	1	8	4	2	0
										9	5	A	
										10	5	A	
										11	6	A	
										12	6	A	
										13	7	A	
										14	7	A	
										15	8	A	
										16	8	A	
										17	9	A	
										18	9	A	
										19	10	A	
										20	10	A	
										21	11	A	
										22	11	A	
										23	12	A	
										24	12	A	
										25	13	A	
										26	13	A	
										27	14	X	
										28	14	X	
										29	15	X	
										30	15	X	

LH 1	LH 1	Y-Symmetry	H1P	H1X	1	6	0.5	1	0.5	1	1	1
LH 2	LH 1	X-Symmetry	H2P	H2Y	1	6	0.5	1	0.5	2	1	1
LH 3	LH 2	XY-Symmetry	H5P	H7P	1	6	1	2	1	3	2	2
LH 4	LH 2	XY-Symmetry	H6P	H8P	1	6	1	2	1	4	2	2
LH 5	LH 3	XY-Symmetry	H9P	H11P	1	6	1	2	1	5	3	2
LH 6	LH 3	XY-Symmetry	H10P	H12P	1	6	1	2	1	6	3	2
LH 7	LH 4	XY-Symmetry	H13P	H15P	1	6	0.998	1.995	0.998	7	4	2
LH 8	LH 4	XY-Symmetry	H14P	H16P	1	6	0.998	1.995	0.998	8	4	2
										9	5	A
										10	5	A
										11	6	A
										12	6	A
										13	7	A
										14	7	A
										15	8	A
										16	8	A
										17	9	A
										18	9	A
										19	10	A
										20	10	A
										21	11	A
										22	11	A
										23	12	A
										24	12	A
										25	13	A
										26	13	A
										27	14	X
										28	14	X
										29	15	X
										30	15	X

LD 1	LD 1	XY-Symmetry	H1P	1P	1	6	0.88	0.88	0.88	1	1	1	1	1	1
LD 2	LD 1	XY-Symmetry	H2P	1P	1	6	0.88	0.88	0.88	2	1	1			1
LD 3	LD 2	XY-Symmetry	H1P	A1P	1	6	0.82	0.82	0.82	3	1	1	1	2	2
LD 4	LD 2	XY-Symmetry	H2P	A2P	1	6	0.82	0.82	0.82	4	1	1			2
										5	1	1			
										6	1	1			
LD 7	LD 4	XY-Symmetry	H5P	2P	1	6	0.87	0.87	0.87	7	2	2	1	3	4
LD 8	LD 4	XY-Symmetry	H6P	2P	1	6	0.87	0.87	0.87	8	2	2			4
LD 9	LD 5	XY-Symmetry	H5P	A3P	1	6	0.83	0.83	0.83	9	2	2	1	4	5
LD 10	LD 5	XY-Symmetry	H6P	A4P	1	6	0.83	0.83	0.83	10	2	2			5
LD 11	LD 6	XY-Symmetry	A3P	H7P	1	6	0.84	0.84	0.84	11	2	2	1	5	6
LD 12	LD 6	XY-Symmetry	A4P	H8P	1	6	0.84	0.84	0.84	12	2	2			6
LD 13	LD 7	XY-Symmetry	H9P	3P	1	6	0.865	0.865	0.865	13	3	2	1	6	7
LD 14	LD 7	XY-Symmetry	H10P	3P	1	6	0.865	0.865	0.865	14	3	2			7
LD 15	LD 8	XY-Symmetry	H9P	A5P	1	6	0.83	0.83	0.83	15	3	2	1	7	8
LD 16	LD 8	XY-Symmetry	H10P	A6P	1	6	0.83	0.83	0.83	16	3	2			8
LD 17	LD 9	XY-Symmetry	A5P	H11P	1	6	0.84	0.84	0.84	17	3	2	1	8	9
LD 18	LD 9	XY-Symmetry	A6P	H12P	1	6	0.84	0.84	0.84	18	3	2			9
LD 19	LD 10	XY-Symmetry	H13P	4P	1	6	0.86	0.86	0.86	19	4	2	1	9	10
LD 20	LD 10	XY-Symmetry	H14P	4P	1	6	0.86	0.86	0.86	20	4	2			10
LD 21	LD 11	XY-Symmetry	H13P	A7P	1	6	0.84	0.84	0.84	21	4	2	1	10	11
LD 22	LD 11	XY-Symmetry	H14P	A8P	1	6	0.84	0.84	0.84	22	4	2			11
LD 23	LD 12	XY-Symmetry	A7P	H15P	1	6	0.85	0.85	0.85	23	4	2	1	11	12
LD 24	LD 12	XY-Symmetry	A8P	H16P	1	6	0.85	0.85	0.85	24	4	2			12
										25	5	A			
										26	5	A			
										27	5	A			
										28	5	A			
										29	5	A			
										30	5	A			
										31	6	A			
										32	6	A			
										33	6	A			
										34	6	A			
										35	6	A			
										36	6	A			

37	7	A
38	7	A
39	7	A
40	7	A
41	7	A
42	7	A
43	8	A
44	8	A
45	8	A
46	8	A

											47	8	A
											48	8	A
											49	9	A
											50	9	A
											51	9	A
											52	9	A
											53	9	A
											54	9	A
											55	10	A
											56	10	A
											57	10	A
											58	10	A
											59	10	A
											60	10	A
											61	11	A
											62	11	A
											63	11	A
											64	11	A
											65	11	A
											66	11	A
											67	12	A
											68	12	A
											69	12	A
											70	12	A
											71	12	A
											72	12	A
											73	13	A
											74	13	A
											75	13	A
											76	13	A
											77	13	A
											78	13	A
											79	14	X
											80	14	X
											81	14	X
											82	14	X
											83	14	X
											84	14	X
											85	15	X
											86	15	X
											87	15	X
											88	15	X
											89	15	X
											90	15	X
BR 1	DUM 1	XY-Symmetry	A1P	A2P	1	4	1	1	1		1	1	1
											2	1	1
BR 3	DUM 1	XY-Symmetry	A3P	A4P	1	4	1	1	1		3	2	2
BR 4	DUM 1	XY-Symmetry	A3P	A4XY	1	4	1	1	1		4	2	2
BR 5	DUM 1	XY-Symmetry	A5P	A6P	1	4	1	1	1		5	3	2
BR 6	DUM 1	XY-Symmetry	A5P	A6XY	1	4	1	1	1		6	3	2
BR 7	DUM 1	XY-Symmetry	A7P	A8P	1	4	1	1	1		7	4	2
BR 8	DUM 1	XY-Symmetry	A7P	A8XY	1	4	1	1	1		8	4	2
BR 9	DUM 1	XY-Symmetry	A9P	A10P	1	4	1	1	1		9	5	A
											10	5	A
BR 11	DUM 1	XY-Symmetry	A11P	A12P	1	4	1	1	1		11	6	A
											12	6	A
BR 13	DUM 1	XY-Symmetry	A13P	A14P	1	4	1	1	1		13	7	A
											14	7	A
BR 15	DUM 1	XY-Symmetry	A15P	A16P	1	4	1	1	1		15	8	A
											16	8	A
BR 17	DUM 1	XY-Symmetry	A17P	A18P	1	4	1	1	1		17	9	A
											18	9	A
BR 19	DUM 1	XY-Symmetry	A19P	A20P	1	4	1	1	1		19	10	A
											20	10	A
BR 21	DUM 1	XY-Symmetry	A21P	A22P	1	4	1	1	1		21	11	A
											22	11	A
BR 23	DUM 1	XY-Symmetry	A23P	A24P	1	4	1	1	1		23	12	A
											24	12	A
BR 25	DUM 1	XY-Symmetry	A25P	A26P	1	4	1	1	1		25	13	A
											26	13	A
											27	14	X
											28	14	X
											29	15	X
											30	15	X
											31	16	X
											32	16	X
											33	17	X
											34	17	X
											35	18	
											36	18	
											37	19	
											38	19	
											39	20	
											40	20	
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											75	38	
											76	38	
											77	39	
											78	39	
											79	40	
											80	40	
BR 61	DUM 1	XY-Symmetry	H1P	H2P	1	4	1	1	1		1	1	1
BR 62	DUM 1	XY-Symmetry	H1P	H2XY	1	4	1	1	1		2	1	1
											3	1	1
BR 64	DUM 1	XY-Symmetry	H5P	H6P	1	4	1	1	1		4	2	2
BR 65	DUM 1	XY-Symmetry	H5P	H6XY	1	4	1	1	1		5	2	2
BR 66	DUM 1	XY-Symmetry	H7P	H8P	1	4	1	1	1		6	2	2
BR 67	DUM 1	XY-Symmetry	H9P	H10P	1	4	1	1	1		7	3	2
BR 68	DUM 1	XY-Symmetry	H9P	H10XY	1	4	1	1	1		8	3	2
BR 69	DUM 1	XY-Symmetry	H11P	H12P	1	4	1	1	1		9	3	2
BR 70	DUM 1	XY-Symmetry	H13P	H14P	1	4	1	1	1		10	4	2
BR 71	DUM 1	XY-Symmetry	H13P	H14XY	1	4	1	1	1		11	4	2
BR 72	DUM 1	XY-Symmetry	H15P	H16P	1	4	1	1	1		12	4	2
											13	5	A
											14	5	A
											15	5	A
											16	6	A
											17	6	A
											18	6	A
											19	7	A
											20	7	A
											21	7	A
											22	8	A
											23	8	A
											24	8	A
											25	9	A
											26	9	A
											27	9	A
											28	10	A

29	10	A
30	10	A
31	11	A
32	11	A
33	11	A
34	12	A
35	12	A
36	12	A
37	13	A
38	13	A
39	13	A
40	14	X
41	14	X
42	14	X
43	15	X
44	15	X
45	15	X

Site:	88018
Carrier:	Sprint Nextel

Engineer:	SAW
Date:	01/13/11

Ar: 1 [No round members]

Taper: -0.123333
Base FW: 46

Taper change: 300
Top FW: 9

Leg	Lower H	Top H	Diag	Diag 1	Diag 2	Diag 3	Face Width Base	Face Width Top
25.04749	21.45833	42.91667	21.75992	12.827155	12.82716	0	46	42.916667
25.04749	21.61223	39.83333	20.88996	11.50752	8.172312	9.66932	42.91667	39.833333
25.04749	20.00643	36.75	20.52309	10.931956	8.02879	9.323976	39.83333	36.75
25.04749	18.40063	33.66667	20.17661	10.377083	7.893244	8.994747	36.75	33.666667
25.04749	0	30.58333	30.13903	0	0	0	33.66667	30.583333
25.04749	0	27.5	29.30589	0	0	0	30.58333	27.5
25.04749	0	24.41667	28.53178	0	0	0	27.5	24.416667
25.04749	0	21.33333	27.82164	0	0	0	24.41667	21.333333
12.52374	0	19.79167	16.43252	0	0	0	21.33333	19.791667
12.52374	0	18.25	15.94295	0	0	0	19.79167	18.25
12.52374	0	16.70833	15.47629	0	0	0	18.25	16.708333
12.52374	0	15.16667	15.0347	0	0	0	16.70833	15.166667
12.52374	0	13.625	14.62043	0	0	0	15.16667	13.625
10.18932	0	12.3707	16.50373	0	0	0	13.625	12.3707
10.18932	0	11.1164	15.53512	0	0	0	12.3707	11.1164
8.596298	0	10.0582	13.62745	0	0	0	11.1164	10.0582
8.596298	0	9	12.82264	0	0	0	10.0582	9
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		

Area Total	Area Modeled	Area Ratio	Drop Sub-Brace
95.45818	76.22948	1.252248	0
90.08624	72.99683	1.234112	0
86.43777	70.30799	1.229416	0
82.99448	67.6123	1.223865	0
71.76849	56.112	1.279022	0
69.52335	54.9246	1.265796	0
66.31762	52.74935	1.257222	0
66.63971	54.07038	1.232462	0
28.77975	23.49389	1.224989	0
28.00199	22.96872	1.219136	0
27.23948	22.4531	1.213172	0
26.49359	21.94792	1.207112	0
25.7656	21.45413	1.200971	0
25.51979	21.21095	1.203142	0
24.32761	20.33235	1.196498	0
20.03243	16.49186	1.214686	0
22.85093	19.5749	1.167358	0

	$H_{@Base}$	$H_{Section}$	Type	Leg	Lower H	Top H	Diag	Diag 1	Diag 2	Diag 3
1	0	25	1	8	2.5	3.5	3	3	4	0
2	25	25	2	8	2.5	3.5	3	2.5	2.5	3
3	50	25	2	8	2.5	3.5	2.5	3	2.5	3
4	75	25	2	8	3.5	3	2.5	3	2.5	2.5
5	100	25	A	8	0	3	3	0	0	0
6	125	25	A	8	0	3	3	0	0	0
7	150	25	A	8	0	2.5	3	0	0	0
8	175	25	A	8	0	2.5	3.5	0	0	0
9	200	12.5	A	6	0	2.5	2.5	0	0	0
10	212.5	12.5	A	6	0	2.5	2.5	0	0	0
11	225	12.5	A	6	0	2.5	2.5	0	0	0
12	237.5	12.5	A	6	0	2.5	2.5	0	0	0
13	250	12.5	A	6	0	2.5	2.5	0	0	0
14	262.5	10.17	X	5	0	3	3.5	0	0	0
15	272.67	10.17	X	5	0	3	3.5	0	0	0
16	282.84	8.58	X	5	0	3	3	0	0	0
17	291.42	8.58	X	5	0	8	3	0	0	0
18				0	0	0	0	0	0	0
19				0	0	0	0	0	0	0
20				0	0	0	0	0	0	0
21				0	0	0	0	0	0	0
22				0	0	0	0	0	0	0
23				0	0	0	0	0	0	0
24				0	0	0	0	0	0	0
25				0	0	0	0	0	0	0
26				0	0	0	0	0	0	0
27				0	0	0	0	0	0	0
28				0	0	0	0	0	0	0
29				0	0	0	0	0	0	0
30				0	0	0	0	0	0	0
31				0	0	0	0	0	0	0
32				0	0	0	0	0	0	0
33				0	0	0	0	0	0	0
34				0	0	0	0	0	0	0
35				0	0	0	0	0	0	0
36				0	0	0	0	0	0	0
37				0	0	0	0	0	0	0
38				0	0	0	0	0	0	0
39				0	0	0	0	0	0	0
40				0	0	0	0	0	0	0

$FW_{@Base}$	Area Modeled
	76.229476
	72.996829
	70.307994
	67.612297
	56.112001
	54.924597
	52.749349
	54.070385
	23.493893
	22.968722
	22.453103
	21.947924
	21.454132
	21.210948
	20.332351
	16.491856
	19.574903

H1	H2	H3	H4	H5	H6	D1	D2	D3	D4	D5	V1	Drop	Face Width @H1	@H2	@H3	@H4	@H5	@H6
11.16268	7.441789	3.720894	0	0	0	9.268172	6.8638711	0	0	0	0	7.03	43.7837	44.52247	45.26123			
9.544067	6.362711	3.181356	0	0	0	8.473493	6.6171864	0	0	0	0	7.03	40.70037	41.43913	42.1779			
8.8053	5.8702	2.9351	0	0	0	8.132594	6.5163642	0	0	0	0	7.03	37.61703	38.3558	39.09457			
8.066533	5.377689	2.688844	0	0	0	7.807895	6.4233947	0	0	0	0	7.03	34.5337	35.27247	36.01123			
10.19444	5.097222	0	0	0	0	12.77332	9.5105935	0	0	0	0		31.61111	32.63889				
9.166667	4.583333	0	0	0	0	12.01312	9.2736785	0	0	0	0		28.52778	29.55556				
8.138889	4.069444	0	0	0	0	11.29536	9.0601556	0	0	0	0		25.44444	26.47222				
7.111111	3.555556	0	0	0	0	10.62863	8.8710868	0	0	0	0		22.36111	23.38889				
4.947917	0	0	0	0	0	7.738146	0	0	0	0	0		20.5625					
4.5625	0	0	0	0	0	7.517348	0	0	0	0	0		19.02083					
4.177083	0	0	0	0	0	7.310215	0	0	0	0	0		17.47917					
3.791667	0	0	0	0	0	7.117938	0	0	0	0	0		15.9375					
3.40625	0	0	0	0	0	6.941753	0	0	0	0	0		14.39583					
6.498925	0	0	0	0	0	0	0	0	0	0	5.085		12.99785					
5.871775	0	0	0	0	0	0	0	0	0	0	5.065		11.74355					
5.29365	0	0	0	0	0	0	0	0	0	0	4.29		10.5873					
4.76455	0	0	0	0	0	0	0	0	0	0	4.29		9.5291					
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							

Assumed

	$H_{@Base}$	$H_{Section}$	Section	$FW_{@Base}$	$FW_{@Top}$	H1	H2	H3	H4	H5	H6	D1	D2	D3	D4	D5	V1	Area Missing	Sub FW
1	0	25	1	46	42.91667	3	3	3	3	3	3	3	3	3	3	3	3	19.228705	
2	25	25	2	42.91667	39.83333	3	3	3	3	3	3	3	3	3	3	3	3	17.089411	
3	50	25	3	39.83333	36.75	3	3	3	3	3	3	3	3	3	3	3	3	16.129779	
4	75	25	4	36.75	33.66667	3	3	3	3	3	3	3	3	3	3	3	3	15.182178	
5	100	25	5	33.66667	30.58333	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	15.65649	
6	125	25	6	30.58333	27.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	14.598749	
7	150	25	7	27.5	24.41667	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	13.568269	
8	175	25	8	24.41667	21.33333	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	12.569327	
9	200	12.5	9	21.33333	19.79167	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.2858595	
10	212.5	12.5	10	19.79167	18.25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0332701	
11	225	12.5	11	18.25	16.70833	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.7863741	
12	237.5	12.5	12	16.70833	15.16667	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.5456685	
13	250	12.5	13	15.16667	13.625	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.3116679	
14	262.5	10.17	14	13.625	12.3707	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.3088375	
15	272.67	10.17	15	12.3707	11.1164	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.9952625	
16	282.84	8.58	16	11.1164	10.0582	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.540575	
17	291.42	8.58	17	10.0582	9	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.276025	
18			18	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
19			19	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
20			20	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
21			21	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
22			22	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
23			23	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
24			24	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
25			25	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
26			26	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
27			27	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
28			28	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
29			29	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
30			30	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
31			31	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
32			32	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
33			33	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
34			34	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
35			35	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
36			36	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
37			37	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
38			38	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
39			39	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
40			40	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	

Task: Determine Point Loads

Tower Height:	300	ft
Gh:	1.09	
County:		
Wind Speed:	85	mph
Radial Ice Diameter:	0.5	in

KS-15676 Horn Antennas: ~128 ft²

Site No.:	88018
Engineer:	SAW
Date:	01/13/2011
Carrier:	Sprint Nextel

No.	Carrier	Elevation (ft)	Quantity	Number of Azimuths	Model	Height (in)	Width (in)	Depth (in)	Weight (lbs/ea)	Flat/Round (F/R)	Reduction	C_AA_C (ft^2)	Weight (k)
1		300	2	2	15' Omni & 16' Grid Omni	186	4	4	50	R	1.000		
		300	1	4	Platform						1.000	55.00	4.00
2		283	1	4	-	0.01	0.01	0.01	0.01	R	0.001		
		283	1	4	Catwalk						1.000	40.00	2.75
3		212.5	1	3	-	0.01	0.01	0.01	0.01	R	0.001		
		212.5	1	3	Platform						1.000	50.00	3.00
4		100	1	3	-	0.01	0.01	0.01	0.01	R	0.001		
		100	1	3	Platform						1.000	50.00	3.00
5	Bell Industries	303	1	1	Scala OGB9-900N/DT3 + TTA	116.6	2	2	15	R	1.500		
	Bell Industries	303	1	1	Side Arm						1.000	3.00	0.20
6	Lojack	302	1	1	RFS 200	249.6	2.4	2.4	20	R	1.000		
	Lojack	302	1	1	Side Arm						1.000	3.00	0.20
7	Marcus Comm.	300	1	1	TX RX 101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000		
	Marcus Comm.	300	1	1	Side Arm						1.000	3.00	0.20
8	AT&T Mobility	294	6	3	Powerwave 7770.00 + TTA & Dipl.	55	11	5	35	F	0.900		
	AT&T Mobility	294	3	3	Sector Frame						0.750	15.00	0.40
9	Qualcomm	289	1	1	-	0.01	0.01	0.01	0.01	R	0.001		
	Qualcomm	289	1	1	Dielectric TLP						1.000	22.75	0.23
10	USCG	271	1	1	-	0.01	0.01	0.01	0.01	R	0.001		
	USCG	271	1	1	Rohde & Schwarz ADD090						1.000	20.76	0.20
11	XM Satellite	269	1	1	Til Tek TA-2350-DAB	70	2.3	2.3	15	R	1.000		
	XM Satellite	269	1	1	Side Arm						1.000	3.00	0.20
12	T-Mobile	265	6	3	CCI DTMA-1819-DD-12	13.2	5.5	3.2	14.3	F	0.670		
	T-Mobile	265	3	3	Sector Frame						0.750	15.00	0.40
13	T-Mobile	265	7	3	RFS APX16DWV-16DWVS-E-A20	55.9	13.3	3.1	40.7	F	0.650		
	T-Mobile	265	1	3	Same Mounts as Above						1.000	0.00	0.00
14	USCG	242	1	1	Sinclair SC381-HL	148.3	4.5	4.5	47	R	1.000		
	USCG	242	1	1	Side Arm						1.000	3.00	0.20
15	USCG	242	1	1	Sinclair SC281-L	251	5	5	79	R	1.000		
	USCG	242	1	1	Side Arm						1.000	3.00	0.20
16	AT&T Mobility	235	4	3	Dapa 58410	53.3	6.3	2.7	11	F	0.770		
	AT&T Mobility	235	3	3	Sector Frame						0.750	15.00	0.40
17	AT&T Mobility	235	2	3	EMS RR90-17-04DP	56	8	2.8	13.5	F	0.730		
	AT&T Mobility	235	1	3	Same Mounts as Above						1.000	0.00	0.00
18	Sprint Nextel	224	12	3	Decibel DB844H90E-XY	48	8.5	6	10	F	0.860		
	Sprint Nextel	224	3	3	Sector Frame						0.750	15.00	0.40
19	Lojack	215.5	1	1	8' Omni	96	3	3	30	R	1.000		
	Lojack	215.5	1	1	Side Arm						1.000	3.00	0.20
20	USCG	200	1	1	Sinclair SC281-L	251	5	5	79	R	1.000		
	USCG	200	1	1	Side Arm						1.000	3.00	0.20
21	Marcus Comm.	200	2	2	TX RX 101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000		
	Marcus Comm.	200	2	2	Side Arm						1.000	3.00	0.20
22	USA Mobility	180	3	3	Antel BCD-87010	134	2.6	2.6	26.5	R	1.000		
	USA Mobility	180	3	3	Side Arm						1.000	3.00	0.20
23	Metro PCS	160	6	3	Kathrein 800 10504	54	6.1	2.7	17.6	F	0.780		
	Metro PCS	160	3	3	Sector Frame						0.750	15.00	0.40
24	Sprint Nextel	148	9	3	Andrew HBX-9014DS-R2M	50.3	6.8	3.8	13	F	0.820		
	Sprint Nextel	148	3	3	Sector Frame						0.750	15.00	0.40
25	Sensus Metering	137	1	1	Antel BCD-87010_4	134	2.6	2.6	26.5	R	1.000		
	Sensus Metering	137	1	1	Side Arm						1.000	3.00	0.20
26	Marcus Comm.	100	1	1	TX RX 101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000		
	Marcus Comm.	100	1	1	Side Arm						1.000	3.00	0.20
27	Lojack	10	1	1	GPS Unit	12	6	6	10	R	1.000		
	Lojack	10	1	1	Pipe						1.000	0.00	0.00
28	AT&T Mobility	285	3	3	48" x 10" Panel	48	10	6	30	F	0.810		
	AT&T Mobility	285	3	3	Pipe						1.000	0.00	0.00
29	USCG	271	1	1	TTA	12	6	6	20	F	1.000		
	USCG	271	1	1	-						1.000	0.00	0.00
30	AT&T Mobility	248	1	3	RR90-17-04DP	56	8	2.8	13.5	F	0.730		
	AT&T Mobility	248	1	3	-						1.000	0.00	0.00

31	AT&T Mobility	235	6	3	TTA	12	6	6	20	F	0.670		
	AT&T Mobility	235	3	3	-						1.000	0.00	0.00
32	Town of Stamford	193	1	1	36" x 60" Panel	36	60	4	75	F	1.000		
	Town of Stamford	193	1	1	Pipe						1.000	1.00	0.10
33	Metro PCS	160	6	3	TTA	12	6	6	20	F	0.670		
	Metro PCS	160	3	3	-						1.000	0.00	0.00
34	Sprint Nextel	148	6	3	CCI CE-1819-200MC (TMA)	14.3	8.4	3.2	12	F	0.690		
	Sprint Nextel	148	3	3	-						1.000	0.00	0.00
35	USA Mobility	6	1	1	Trimble Acutime 2000	5	6.1	6.1	1.3	R	1.000		
	USA Mobility	6	1	1	Pipe						1.000	1.00	0.10
36	Clearwire	300	3	3	DragonWave Horizon Compact	4.9	9.3	9.3	10.6	F	1.000		
	Clearwire	300	3	3	Side Arm						1.000	2.50	0.15
37	Clearwire	167	3	3	Argus LLPX310R	42	11.8	4.5	28.6	F	0.700		
	Clearwire	167	1	3	-						1.000	0.00	0.00
38	Clearwire	167	3	3	NextNet BTS-2500	19.3	11.3	5.1	35	F	0.730		
	Clearwire	167	1	3	-						1.000	0.00	0.00
39													
40													

No.	Elevation	C_AA_C	C_AA_C (Ice)	Force	Force (Ice)	Weight	Weight (Ice)	Σ Force	Σ Force (Ice)	Σ Weight	Σ Weight (Ice)
	(ft)	(ft^2)	(ft^2)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)
1	300	12.40	15.58	0.469	0.442	0.100	0.210	0.47	0.44	0.10	0.21
	300	55.00	74.25	2.079	2.105	4.000	5.200	2.55	2.55	4.10	5.41
2	283	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
	283	40.00	54.00	1.487	1.506	2.750	3.575	1.49	1.51	2.75	3.58
3	212.5	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
	212.5	50.00	67.50	1.713	1.734	3.000	3.900	1.71	1.73	3.00	3.90
4	100	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
	100	50.00	67.50	1.381	1.398	3.000	3.900	1.38	1.40	3.00	3.90
5	303	2.92	4.41	0.110	0.125	0.015	0.034	0.11	0.13	0.02	0.03
	303	3.00	4.05	0.114	0.115	0.200	0.260	0.22	0.24	0.22	0.29
6	302	4.99	7.10	0.189	0.202	0.020	0.067	0.19	0.20	0.02	0.07
	302	3.00	4.05	0.114	0.115	0.200	0.260	0.30	0.32	0.22	0.33
7	300	5.53	7.15	0.209	0.203	0.070	0.120	0.21	0.20	0.07	0.12
	300	3.00	4.05	0.113	0.115	0.200	0.260	0.32	0.32	0.27	0.38
8	294	31.76	35.28	1.194	0.994	0.210	0.406	1.19	0.99	0.21	0.41
	294	33.75	45.56	1.268	1.284	1.200	1.560	2.46	2.28	1.41	1.97
9	289	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
	289	22.75	30.71	0.851	0.861	0.230	0.299	0.85	0.86	0.23	0.30
10	271	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00
	271	20.76	28.03	0.762	0.772	0.200	0.260	0.76	0.77	0.20	0.26
11	269	1.34	1.95	0.049	0.054	0.015	0.028	0.05	0.05	0.02	0.03
	269	3.00	4.05	0.110	0.111	0.200	0.260	0.16	0.16	0.22	0.29
12	265	2.84	3.61	0.104	0.099	0.086	0.116	0.10	0.10	0.09	0.12
	265	33.75	45.56	1.231	1.247	1.200	1.560	1.33	1.35	1.29	1.68
13	265	32.89	35.99	1.200	0.985	0.285	0.519	1.20	0.98	0.28	0.52
	265	0.00	0.00	0.000	0.000	0.000	0.000	1.20	0.98	0.28	0.52
14	242	5.56	6.84	0.198	0.182	0.047	0.096	0.20	0.18	0.05	0.10
	242	3.00	4.05	0.107	0.108	0.200	0.260	0.30	0.29	0.25	0.36
15	242	10.46	12.60	0.372	0.336	0.079	0.170	0.37	0.34	0.08	0.17
	242	3.00	4.05	0.107	0.108	0.200	0.260	0.48	0.44	0.28	0.43
16	235	10.40	12.28	0.367	0.325	0.044	0.117	0.37	0.32	0.04	0.12
	235	33.75	45.56	1.190	1.205	1.200	1.560	1.56	1.53	1.24	1.68
17	235	6.36	7.28	0.224	0.193	0.027	0.072	0.22	0.19	0.03	0.07
	235	0.00	0.00	0.000	0.000	0.000	0.000	0.22	0.19	0.03	0.07
18	224	40.94	46.71	1.423	1.218	0.120	0.435	1.42	1.22	0.12	0.44
	224	33.75	45.56	1.174	1.188	1.200	1.560	2.60	2.41	1.32	2.00
19	215.5	2.40	3.23	0.083	0.083	0.030	0.052	0.08	0.08	0.03	0.05
	215.5	3.00	4.05	0.103	0.104	0.200	0.260	0.19	0.19	0.23	0.31
20	200	10.46	12.60	0.352	0.318	0.079	0.170	0.35	0.32	0.08	0.17
	200	3.00	4.05	0.101	0.102	0.200	0.260	0.45	0.42	0.28	0.43
21	200	11.06	14.30	0.372	0.361	0.140	0.240	0.37	0.36	0.14	0.24
	200	6.00	8.10	0.202	0.205	0.400	0.520	0.57	0.57	0.54	0.76
22	180	8.71	12.15	0.285	0.298	0.080	0.162	0.28	0.30	0.08	0.16
	180	9.00	12.15	0.294	0.298	0.600	0.780	0.58	0.60	0.68	0.94
23	160	15.65	18.55	0.494	0.439	0.106	0.214	0.49	0.44	0.11	0.21
	160	33.75	45.56	1.066	1.079	1.200	1.560	1.56	1.52	1.31	1.77
24	148	24.77	28.98	0.765	0.671	0.117	0.298	0.77	0.67	0.12	0.30
	148	33.75	45.56	1.043	1.056	1.200	1.560	1.81	1.73	1.32	1.86
25	137	2.90	4.05	0.088	0.092	0.027	0.054	0.09	0.09	0.03	0.05
	137	3.00	4.05	0.091	0.092	0.200	0.260	0.18	0.18	0.23	0.31
26	100	5.53	7.15	0.153	0.148	0.070	0.120	0.15	0.15	0.07	0.12
	100	3.00	4.05	0.083	0.084	0.200	0.260	0.24	0.23	0.27	0.38
27	10	0.40	0.51	0.006	0.005	0.010	0.017	0.01	0.01	0.01	0.02
	10	0.00	0.00	0.000	0.000	0.000	0.000	0.01	0.01	0.01	0.02
28	285	11.34	12.73	0.422	0.356	0.090	0.177	0.42	0.36	0.09	0.18
	285	0.00	0.00	0.000	0.000	0.000	0.000	0.42	0.36	0.09	0.18
29	271	0.70	0.88	0.026	0.024	0.020	0.027	0.03	0.02	0.02	0.03
	271	0.00	0.00	0.000	0.000	0.000	0.000	0.03	0.02	0.02	0.03
30	248	3.18	3.64	0.114	0.098	0.014	0.036	0.11	0.10	0.01	0.04
	248	0.00	0.00	0.000	0.000	0.000	0.000	0.11	0.10	0.01	0.04

Site:	88018
Carrier:	Sprint Nextel

Engineer:	SAW
Date:	01/13/11

Load Case Description	Dead Load Factor	Wind Load Factor	Ice Load Factor	Strength Factor	Allowable Stress Inc. Factor	Basic Wind Speed	Wind Dir.	Ice Thick.	Ice Density	Temp.	Point Loads
W 0	1.1	1	1	1	1.3333333	85	0	0	56	50	
W 180	1.1	1	1	1	1.3333333	85	180	0	56	50	
W 45	1.1	1	1	1	1.3333333	85	45	0	56	50	
W -45	1.1	1	1	1	1.3333333	85	-45	0	56	50	
W 90	1.1	1	1	1	1.3333333	85	90	0	56	50	
W -90	1.1	1	1	1	1.3333333	85	-90	0	56	50	
W 0 Ice	1.1	1	1	1	1.3333333	73.61	0	0.5	56	10	
W 180 Ice	1.1	1	1	1	1.3333333	73.61	180	0.5	56	10	
W 45 Ice	1.1	1	1	1	1.3333333	73.61	45	0.5	56	10	
W -45 Ice	1.1	1	1	1	1.3333333	73.61	-45	0.5	56	10	
W 90 Ice	1.1	1	1	1	1.3333333	73.61	90	0.5	56	10	
W -90 Ice	1.1	1	1	1	1.3333333	73.61	-90	0.5	56	10	

Angle: -90

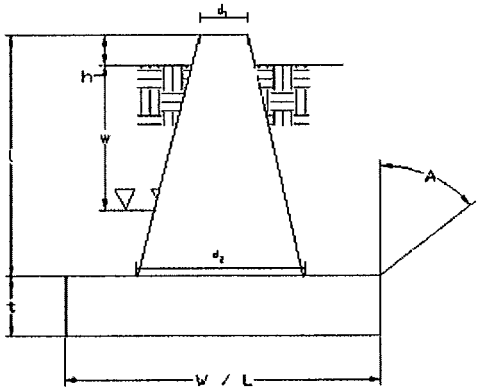
No Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)
17P	0.00	-754.10	1050			
17X	0.00	-754.10	1050			
17Y	0.00	-519.74	1000			
17XY	0.00	-519.74	1000			
15P	0.00	-371.75	687.5025			
15X	0.00	-371.75	687.5025			
15Y	0.00	-371.75	687.5025			
15XY	0.00	-371.75	687.5025			
9P	0.00	-570.88	1000.003			
9X	0.00	-570.88	1000.003			
9Y	0.00	-570.88	1000.003			
9XY	0.00	0.00	0			
4P	0.00	-460.27	1000.003			
4X	0.00	-460.27	1000.003			
4Y	0.00	-460.27	1000.003			
4XY	0.00	0.00	0			
17P	0.00	-224.22	215			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-302.67	220			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-322.43	270			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-820.70	470			
17X	0.00	-820.70	470			
17Y	0.00	-820.70	470			
17XY	0.00	0.00	0			
16P	0.00	-850.81	230.01			
16X	0.00	0.00	0			
16Y	0.00	0.00	0			
16XY	0.00	0.00	0			
14P	0.00	-762.25	200.01			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
14P	0.00	-159.68	215			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
13P	0.00	-444.94	428.8			
13X	0.00	-444.94	428.8			
13Y	0.00	-444.94	428.8			
13XY	0.00	0.00	0			
13P	0.00	-399.98	94.96667			
13X	0.00	-399.98	94.96667			
13Y	0.00	-399.86	94.96667			
13XY	0.00	0.00	0			
12P	0.00	-304.34	247			
12X	0.00	0.00	0			
12Y	0.00	0.00	0			
12XY	0.00	0.00	0			
12P	0.00	-478.43	279			
12X	0.00	0.00	0			
12Y	0.00	0.00	0			
12XY	0.00	0.00	0			
11P	0.00	-518.85	414.6667			
11X	0.00	-518.85	414.6667			
11Y	0.00	-518.85	414.6667			
11XY	0.00	0.00	0			
11P	0.00	-74.72	9			
11X	0.00	-74.72	9			
11Y	0.00	-74.72	9			
11XY	0.00	0.00	0			
10P	0.00	-865.68	440			
10X	0.00	-865.68	440			
10Y	0.00	-865.68	440			
10XY	0.00	0.00	0			
9P	0.00	-185.71	230			
9X	0.00	0.00	0			
9Y	0.00	0.00	0			
9XY	0.00	0.00	0			
8P	0.00	-453.07	279			
8X	0.00	0.00	0			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
8P	0.00	-287.16	270			
8X	0.00	-287.16	270			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
7P	0.00	-192.84	226.5			
7X	0.00	-192.84	226.5			
7Y	0.00	-192.84	226.5			
7XY	0.00	0.00	0			
6P	0.00	-520.09	435.2			
6X	0.00	-520.09	435.2			
6Y	0.00	-520.09	435.2			
6XY	0.00	0.00	0			
6P	0.00	-602.59	439			
6X	0.00	-602.59	439			
6Y	0.00	-602.59	439			
6XY	0.00	0.00	0			
6P	0.00	-178.37	226.5			
6X	0.00	0.00	0			
6Y	0.00	0.00	0			
6XY	0.00	0.00	0			
4P	0.00	-235.57	270			
4X	0.00	0.00	0			
4Y	0.00	0.00	0			
4XY	0.00	0.00	0			
0P	0.00	-5.72	10			
0X	0.00	0.00	0			
0Y	0.00	0.00	0			
0XY	0.00	0.00	0			
15P	0.00	-140.80	30			
15X	0.00	-140.80	30			
15Y	0.00	-140.80	30			
15XY	0.00	0.00	0			
14P	0.00	-25.70	20			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
12P	0.00	-37.94	4.5			
12X	0.00	-37.94	4.5			
12Y	0.00	-37.94	4.5			
12XY	0.00	0.00	0			

With Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)
17P	0.00	-747.13	1405.06			
17X	0.00	-747.13	1405.06			
17Y	0.00	-526.24	1300			
17XY	0.00	-526.24	1300			
15P	0.00	-376.39	893.7608			
15X	0.00	-376.39	893.7608			
15Y	0.00	-376.39	893.7608			
15XY	0.00	-376.39	893.7608			
9P	0.00	-578.02	1300.014			
9X	0.00	-578.02	1300.014			
9Y	0.00	-578.02	1300.014			
9XY	0.00	0.00	0			
4P	0.00	-466.03	1300.014			
4X	0.00	-466.03	1300.014			
4Y	0.00	-466.03	1300.014			
4XY	0.00	0.00	0			
17P	0.00	-240.52	294.1852			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-316.71	327.2902			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-317.45	379.8118			
17X	0.00	0.00	0			
17Y	0.00	0.00	0			
17XY	0.00	0.00	0			
17P	0.00	-759.56	655.2685			
17X	0.00	-759.56	655.2685			
17Y	0.00	-759.56	655.2685			
17XY	0.00	0.00	0			
16P	0.00	-861.45	299.0434			
16X	0.00	0.00	0			
16Y	0.00	0.00	0			
16XY	0.00	0.00	0			
14P	0.00	-771.78	260.0434			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
14P	0.00	-164.95	288.0566			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
13P	0.00	-448.47	558.6683			
13X	0.00	-448.47	558.6683			
13Y	0.00	-448.47	558.6683			
13XY	0.00	0.00	0			
13P	0.00	-328.29	172.95			
13X	0.00	-328.29	172.95			
13Y	0.00	-328.29	172.95			
13XY	0.00	0.00	0			
12P	0.00	-290.42	356.0405			
12X	0.00	0.00	0			
12Y	0.00	0.00	0			
12XY	0.00	0.00	0			
12P	0.00	-443.92	429.6435			
12X	0.00	0.00	0			
12Y	0.00	0.00	0			
12XY	0.00	0.00	0			
11P	0.00	-509.79	558.8646			
11X	0.00	-509.79	558.8646			
11Y	0.00	-509.79	558.8646			
11XY	0.00	0.00	0			
11P	0.00	-64.17	24.01543			
11X	0.00	-64.17	24.01543			
11Y	0.00	-64.17	24.01543			
11XY	0.00	0.00	0			
10P	0.00	-802.10	665.0648			
10X	0.00	-802.10	665.0648			
10Y	0.00	-802.10	665.0648			
10XY	0.00	0.00	0			
9P	0.00	-187.66	312.2963			
9X	0.00	0.00	0			
9Y	0.00	0.00	0			
9XY	0.00	0.00	0			
8P	0.00	-420.39	429.6435			
8X	0.00	0.00	0			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
8P	0.00	-282.72	379.8118			
8X	0.00	-282.72	379.8118			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
7P	0.00	-198.45	313.8441			
7X	0.00	-198.45	313.8441			
7Y	0.00	-198.45	313.8441			
7XY	0.00	0.00	0			
6P	0.00	-506.27	591.2027			
6X	0.00	-506.27	591.2027			
6Y	0.00	-506.27	591.2027			
6XY	0.00	0.00	0			
6P	0.00	-575.66	619.3672			
6X	0.00	-575.66	619.3672			
6Y	0.00	-575.66	619.3672			
6XY	0.00	0.00	0			
6P	0.00	-183.56	313.8441			
6X	0.00	0.00	0			
6Y	0.00	0.00	0			
6XY	0.00	0.00	0			
4P	0.00	-231.93	379.8118			
4X	0.00	0.00	0			
4Y	0.00	0.00	0			
4XY	0.00	0.00	0			
0P	0.00	-5.42	16.84352			
0X	0.00	0.00	0			
0Y	0.00	0.00	0			
0XY	0.00	0.00	0			
15P	0.00	-118.58	58.93981			
15X	0.00	-118.58	58.93981			
15Y	0.00	-118.58	58.93981			
15XY	0.00	0.00	0			
14P	0.00	-24.36	26.84352			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
12P	0.00	-32.58	12.00772			
12X	0.00	-32.58	12.00772			
12Y	0.00	-32.58	12.00772			
12XY	0.00	0.00	0			

Site Name:	**Stamford (Katoona), CT**
Site Number:	**88018**
Engineer:	**SAW**
Date:	**1/13/2011**



Design Loads (Unfactored)

Compression/Leg:	511.3	k
Uplift/Leg:	412.9	k
Face Width - Top of Pier	4.00	ft
Face Width - Bottom of Pier	8.00	ft
Total Length of Pier	8.00	ft
Height of Pedestal Above Ground	0.50	ft
Width of Pad (W):	18.00	ft
Length of Pad (L):	18.00	ft
Thickness of Pad (t):	3.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil:	100.0	pcf
Friction Angle of Uplift (A):	21	Degrees
Allowable Compressive Bearing Pressure:	20000	psf
Cohesion:	3000	psf

Axial Capacities

Volume Pier	298.7	ft^3
Volume Pad	972.0	ft^3
Weight Pad	145.8	kips
Weight Pier	44.8	kips
Volume Soil	3290.2	ft^3
Weight Soil	299.2	kips

Uplift Check

TIA Case 1 $\quad \frac{\text{Wt. Soil + Wt. Concrete}}{1.5}$

TIA Case 2 $\quad \frac{\text{Wt. Soil}}{2.0} + \frac{\text{Wt. Concrete}}{1.25}$

	Allowable Uplift	Ratio	Result
TIA Case 1:	435.9	0.95	OK
TIA Case 2:	411.4	1.00	OK

Compression Check

Allow. Compression	Ratio	Result
6480.0	0.08	OK

GIANT SOLUTIONS LLC

Electomagnetic Exposure Analysis
Sprint
CT03XC337
February 4, 2011

Executive Summary:
A power density study has been performed utilizing the transmit power of all proposed transceiver equipment to be installed on the tower. This theoretical result has been combined with empirical data recorded during a field survey of the existing installed transmitters (see below). This report takes into consideration the cumulative effect of both the proposed Sprint transmitting elements and the existing transmitting elements currently located on the tower. This report assumes a worse case scenario of all new elements radiating from the same point in space simultaneously. Careful review of the data indicates that the site, as is and as proposed, is in compliance with applicable Federal standards for Maximum Permissible Exposure levels for RF power density.

Background:
FCC 96-326 is the standard FCC guideline for power density. The guidelines are given in terms of mW/cm^2 and the maximum limits are termed 'Maximum Permissible Exposure' (MPE) for both occupational (controlled) and general (uncontrolled) cases. Because these guidelines are based upon the same limits as those in the American National Standards Institute/Institute of Electrical and Electronics Engineering (ANSI/IEEE) guidelines, they also include the safety factors of 10 and 50 for occupational and general public scenarios respectively.

Additionally, FCC Bulletin OET 65 is the standard for evaluating compliance with FCC guidelines. GIANT Solutions has adopted these methods and procedures and others based on sound engineering practice to ensure that the theoretical calculations performed to complete this analysis will over-predict field strength levels at ground distances close to the transmitting elements. A more realistic approach to calculating power densities at areas near the base of the tower was utilized by taking advantage of the relative gain patterns of the directional antennas being proposed by Sprint. Directional antennas focus energy toward the horizon. This results in a pattern of losses and gains relative to the direction of propagation due to elevation angle changes. Equation 6 from OET 65 was utilized in conjunction with the antenna vertical gain patterns to predict the field strength levels at various points away from the base of the tower. This equation takes into consideration a four-fold increase in power density by assuming a 100% reflection of incoming radiation at the ground level.

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$$S=\frac{1.65\times ERP\times G}{\Pi\times R^2}$$

Where:
S = Power density in microwatts per centimeter squared.
ERP = Effective Radiated Power in microwatts (uW).
R = Straight-line distance between antenna centerline and head level in centimeters (cm).
$\Pi = 3.14$
G = Relative numeric gain of the antenna at specified angle of declination such that

$$G=10^{(dB/10)}$$

and, ***dB*** = relative antenna gain in dB (available from the antenna manufacturer).

Sprint has provided to GIANT Solutions the following information for the proposed installation required for analysis of these transmitting elements. These parameters were utilized to calculate the maximum exposure levels in and around the compound for the proposed installation.

- PCS B-Band, 4 carriers, 16 W per carrier. On all three sectors, adding a Cellextender that will increase the signal's power by 6 dB.

With this information, the signal's additional power was calculated to increase by 48 W per carrier.

This site currently has several antennas installed. Applicable transmit parameters for all existing equipment was unavailable, thus a field study was conducted to determine existing exposure levels. The details and results of the field study are included at the end of this report.

Power density levels were calculated for the additional Sprint transmitting equipment utilizing the methods and procedures previously referenced at a transmitting height of 123' AGL. These values were then compared to the applicable Maximum Permissible Exposure limits for General Population /Uncontrolled and Occupation/Controlled exposure[1]. The ratio of the calculated value to the maximum permissible exposure value was then computed to analyze the results as a percentage of the maximum allowable levels. For example, an antenna operating in the frequency range of 1900 MHz with a calculated value of power density equal to 0.03 mW/cm^2 would be operating at 3% of the allowable General Public standard which is defined

[1] FCC Bulletin OET 65 Table 1

as 1mW/cm^2. These values were then summed to analyze the combined effect of all proposed transmitting equipment.

These calculated values were then added to the RF exposure measurements from the field survey to get the total combined field strength of the existing and proposed equipment.

Areas closest to the transmitting elements surrounding the site compound were considered for this report. Points further away from surveyed areas will see a decrease in power density due to the attenuation of radio waves traveling through free space.

Results of the cumulative total indicate that no area accessible to the general public will exceed 22.34% of the maximum permissible limit for General Public/Uncontrolled access. **This is 4.5 times less than the allowed maximum.** This is based on the highest measured level in the area as described below. As indicated previously, a conservative approach was taken in calculating the power density levels at the site since it is unlikely that all of the transmitters at the site will be transmitting simultaneously at maximum power. The actual levels experienced at the site will likely be lower.

RF Exposure Measurements

Site Name: CT03XC337
Date Collected: 01/26/2011
Time: 13:16– 14:51
Survey Meter: *Model #NARDA BN 2251/02*
Serial # L-0098
Date of Last Calibration: 1/2010
Calibration Due: 1/2013
Operator: Harold Briggs

Measurements were made at this facility utilizing the above-referenced Narda Meter. This equipment is designed to measure cumulative RF fields over the 3MHz – 40 GHz spectrum band. Due to the wide band nature of the measuring device the minimum detectable level for occupational exposure is approximately 5% of the Occupational threshold. Site data provided for this facility indicates a number of transmitters operating at the site and through visual inspection it was determined that there were no AM transmitters present. As a result, it was assumed that all existing elements were transmitting in the spectrum band measured. The weather was clear and the operating temperature was approximately 50 degrees F.

The test equipment was set to read percent of the total exposure limit as defined by the Federal Communications Commission Regulations ("FCC") for Exposure limits.

The unit was then carried around the tower site, taking two individual sets of data. The sets of data were taken over a period of approximately 30 minutes, and included the area directly around the antenna site. Measurements were taken in all accessible areas.

Multiple trips were made around the compound looking for the largest signals to contribute to the percent of the standard being displayed on the monitor. Logged data was collected around the tower as well as spatial averaging to provide an additional means of data comparison. The highest average electrical field detected was 22.04% of the FCC general public/uncontrolled standard for human exposure in the areas accessible to the public.

Based upon these measurements, there were no instances when the measured data indicated that the site, as operating at the time of measurement, was not in full compliance with all applicable FCC RF exposure guidelines.

Martin Blatz
RF Engineer

2/4/2011

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STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Internet: ct.gov/csc

Daniel F. Caruso
Chairman

February 23, 2011

The Honorable Michael A. Pavia
Mayor
City of Stamford
Stamford Government Center
888 Washington Boulevard
P. O. Box 10152
Stamford, CT 06904-2152

RE: **EM-SPRINT-NEXTEL-135-110210** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mayor Pavia:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by March 9, 2011.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

c: Norman Cole, Acting Land Use Bureau Chief, City of Stamford