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KENNETH C. BALDWIN

280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

Also admitted in Massachusetts

June 20, 2014

Melanie A. Bachman Acting Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Re: Notice of Exempt Modification – Facility Modification 38 Rich Road, Thompson, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains twelve (12) wireless telecommunications antennas at the 137-foot level on an existing 175-foot tower at 38 Rich Road in Thompson, Connecticut (the "Property"). The tower is owned by SBA. Cellco's use of the tower was approved by the Council in 2008. Cellco now intends to modify its facility by installing three (3) remote radio heads ("RRHs") behind three (3) of its existing antennas and installing one (1) HYBRIFLEXTM antenna cable inside of the monopole. Included in <u>Attachment 1</u> are specifications for Cellco's RRHs and HYBRIFLEXTM cable.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this notice is being sent to Paul A. Lenky, First Selectman of the Town of Thompson. The Town of Thompson is the owner of the Property.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's RRHs will be installed at the 137-foot level on the existing 175-foot tower.



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ROBINSON & COLELLP

Melanie A. Bachman June 20, 2014 Page 2

- 2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in <u>Attachment 2</u>.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The tower and its foundation can support Cellco's proposed modifications. (See Structural Analysis included in <u>Attachment 3</u>).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

Enclosures Copy to:

Paul A. Lenky, Thompson First Selectman Sandy M. Carter



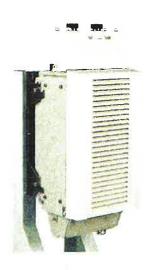
ATTACHMENT 1



Alcatel-Lucent RRH2x40-AWS

REMOTE RADIO HEAD

The Alcatel-Lucent RRH2x40-AWS is a high-power, small form-factor Remote Radio Head (RRH) operating in the AWS frequency band (1700/2100MHz - 3GPP Band 4). The Alcatel-Lucent RRH2x40-AWS is designed with an eco-efficient approach, providing operators with the means to achieve high quality and capacity coverage with minimum site requirements.



A distributed eNodeB expands deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radiofrequency (RF) elements. This modular design optimizes available space and allows the main components of an eNodeB to be installed separately, within the same site or several kilometres apart.

The Alcatel-Lucent RRH2x40-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information. The Alcatel-Lucent RRH2x40-AWS has two transmit RF paths, 40 W RF output power per transmit path, and is designed to manage up to four-way receive diversity. The device is ideally suited to support macro coverage, with multiple-input multiple-output (MIMO) 2x2 operation in up to 20 MHz of bandwidth.

The Alcatel-Lucent RRH2x40-AWS is designed to make available all the benefits of a distributed eNodeB, with excellent RF characteristics, with low

capital expenditures (CAPEX) and low operating expenditures (OPEX). The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment or require costly cranes to be employed, leaving coverage holes. However, many of these sites can host an Alcatel-Lucent RRH2x40-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

Fast, low-cost installation and deployment

The Alcatel-Lucent RRH2x40-AWS is a zero-footprint solution and operates noise-free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH2x40-AWS is compact and weighs less than 20 kg (44 lb), eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day — a fraction of the time required for a traditional BTS.

Excellent RF performance

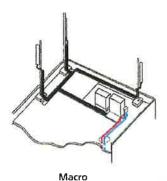
Because of its small size and weight, the Alcatel-Lucent RRH2x40-AWS can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH2x40-AWS where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder cost and installation costs are reduced or eliminated, and there is no need for a Tower Mounted Amplifier (TMA) because losses introduced by the RF feeder are greatly reduced. The Alcatel-Lucent RRH2x40-AWS provides more RF power while at the same time consuming less electricity.

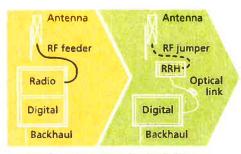
Features

- Zero-footprint deployment
- Easy installation, with a lightweight unit can be carried and set up by
- Optimized RF power, with flexible site selection and elimination of
- Convection-cooled (fanless)
- Noise-free
- Best-in-class power efficiency, with significantly reduced energy consumption

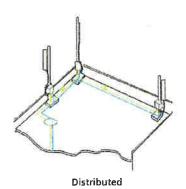
Benefits

- · Leverages existing real estate with lower site costs
- · Reduces installation costs, with fewer installation materials and simplified logistics
- · Decreases power costs and minimizes environmental impacts, with the potential for eco-sustainable power options
- Improves RF performance and adds flexibility to network planning









Technical specifications

Physical dimensions

- Height: 620 mm (24.4 in.)
- Width: 270 mm (10.63 in.)
- Depth: 170m (6.7 in.)
- Weight (without mounting kit): less than 20 kg (44 lb)

Power

Power supply: -48VDC

Operating environment

- Outdoor temperature range:
- ¬ With solar load: -40°C to +50°C (-40°F to +122°F)
- ¬ Without solar load: -40°C to +55°C (-40°F to +131°F)

- · Passive convection cooling (no fans)
- Enclosure protection
 - ¬ IP65 (International Protection rating)

RF characteristics

- Frequency band: 1700/2100 MHz (AWS); 3GPP Band 4
- Bandwidth: up to 20 MHz
- · RF output power at antenna port: 40 W nominal RF power for each Tx port
- · Rx diversity: 2-way or 4-way with optional Rx Diversity module
- Noise figure: below 2.0 d8 typical
- Antenna Line Device features
- ¬ TMA and Remote electrical tilt (RET) support via AISG v2.0

Optical characteristics Type/number of fibers

- · Single-mode variant
 - ¬ One Single Mode Single Fiber per RRH2x, carrying UL and DL using CWDM
 - ¬ Single mode dual fiber (SM/DF)
- · Multi-mode variant
 - ¬ Two Multi-mode fibers per RRH2x: one carrying UL, the other carrying DL

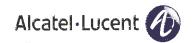
Optical fiber length

- Up to 500 m (0.31 mi), using MM fiber
- Up to 20 km (12.43 mi), using SM fiber

Digital Ports and Alarms

- Two optical ports to support daisy-chaining
- Six external alarms

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HYBRIFLEX™ RRH Hybrid Feeder Cabling Solution, 1-5/8", Single-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding Sliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design Decreases tower loading
- Robust cabling Eliminates need for expensive cable trays and dusts
- Installation of tight bundled fiber optic cable pairs directly to the RRH Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket Ensures long-lasting cable protection



Figure 1: HYBRIFLEX Series

Technical Specifications

711			
Outer Conductor Armor	Corrugated Aluminum	[mm (in)]	46.5 (1.83)
Jacket	Polyethylene, PE	[mm (in)]	50.3 (1 98)
UV-Protection	Individual and External Jacket		Yes
Mark of the arts			
Weight, Approximate		[kg/m (lb/ft)]	1 9 (1.30)
Minimum Bending Radius, Single Bending		[mm (m)]	200 (8)
Minimum Bending Radius,	Repeated Bending	[mm (in)]	500 (20)
Recommended/Maximum Clamp Spacing		(m (ft))	1.0 / 1.2 (3.25 / 4.0)
Sister Ital Properties			
DC-Resistance Outer Cond	ductor Armor	$[\Omega/\text{km} (\Omega/1000\text{ft})]$	068 (0 205)
DC-Resistance Power Cabl	le, 8 4mm² (8AWG)	[Ω/km (Ω/1000ft)]	2 1 (0 307)
Brack Street Contractor			

Version		Single-mode OM3
Quantity, Fiber Count		16 (8 pairs)
Core/Clad	[µm]	50/125
Primary Coating (Acrylate)	(µm)	245
Buffer Diameter, Nominal	(µm)	900
Secondary Protection, Jacket, Nominal	[mm (in)]	2 0 (0 08)
Minimum Bending Radius	[mm (in)]	104 (4.1)
Insertion Loss @ wavelength 850nm	dB/km	3 0
Insertion Loss @ wavelength 1310nm	d8/km	1.0
Standards (Meets or exceeds)		UL34-V0_UL1666
		Ro⊣S Compliant

Size (Power)	[mm (AWG)]	8 4 (8)
Quantity, Wire Count (Power)	***************************************	16 (8 pairs)
Size (Alarm)	[mm (AWG)]	0.8 (18)
Quantity, Wire Count (Alarm)		4 (2 pairs)
Type		UV protected
Strands		19
Primary Jacket Diameter, Nominal	[mm (in _i)	6.8 (0.27)
Standards (Meets or exceeds)		NFPA 130, ICEA S-95-658 UL Type XHHVV-2, UL 44
		UL-LS Emited Smoke, UL VW-T IEEE-383 (1974), IEEE1202/FT4

 Environment
 [°C (°F)]
 -40 to +65 (-40 to149)

 Installation Temperature
 [°C (°F)]
 -40 to +65 (-40 to149)

 Operation Temperature
 [°C (°F)]
 -40 to +65 (-40 to149)

*This data is provisional and subject to change

RFS The Clear Choice®

HB153-1-03U3-53J13

PoHS Compliant

Rev P1

Print Date: 27.5.2012

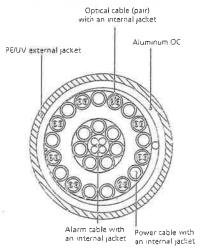


Figure 3: Construction Detail

ATTACHMENT 2

Site Name: Thompson N Tower Height: 175Ft			,					
Tower Height: 175Ft								
				CALC. POWER		MAX. PERMISS.	胀	
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	DENS	FREQ.	EXP.	MPE	Total
*T-Mobile GSM/UMTS	2	12	148.7	0.0004	1950	1.0000	0.04%	
*T-Mobile UMTS	2	16	148.7	0.0005	2100	1.0000	0.05%	
*T-Mobile LTE	2	24	148.7	0.0008	2100	1.0000	%80.0	
*AT&T UMTS	2	565	127	0.0252	880	0.5867	4.29%	
*AT&T UMTS	2	875	127	0.0390	1900	1.0000	3.90%	
*AT&T GSM	1	283	127	0.0063	880	0.5867	1.08%	
*AT&T GSM	4	525	127	0.0468	1900	1.0000	4.68%	
*AT&T LTE	Т	1771	127	0.0395	734	0.4893	8.07%	
Verizon	11	421	137	0.0887	1970	1.0000	8.87%	
Verizon	6	393	137	0.0678	869	0.5793	11.70%	
Verizon	-	1750	137	0.0335	2145	1.0000	3.35%	
Verizon	-	1050	137	0.0201	869	0.4653	4.32%	
								50.43%
* Source: Siting Council								

ATTACHMENT 3



FDH Engineering, Inc., 6521 Meridien Drive Raleigh, NC 27616, Ph. 919.755.1012, Fax 919.755.1031

Structural Analysis for SBA Network Services, Inc.

149' Monopole Tower

SBA Site Name: Thompson 1 SBA Site ID: CT11559-A-00 Verizon Site ID: Thompson North

FDH Project Number 14260F1400

Analysis Results

Tower Components	65.9%	Sufficient
Foundation	70.8%	Sufficient

Prepared By:

Mark S. Ligio

Mark S. Girgis, El Project Engineer

> FDH Engineering, Inc. 6521 Meridien Drive Raleigh, NC 27616 (919) 755-1012 info@fdh-inc.com

By No

Reviewed By:

Bradley R. Newman, PE Senior Project Engineer CT PE License No. 29630



April 7, 2014

Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures and the 2005 Connecticut State Building Code

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Conclusions	3
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GENERAL COMMENTS	6
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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in North Grosvenordale, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F* and 2005 Connecticut State Building Code (CSBC). Information pertaining to the existing/proposed antenna loading, current tower geometry, foundation dimensions, and member sizes was obtained from:

Fred A. Nudd Corporation (Project No. 308-13019) original design drawings dated April 25, 2008
FDH, Inc. (Project No. 08-08058T) TIA Inspection Report dated September 15, 2008
SBA Network Services, Inc.

The basic design wind speed per the TIA/EIA-222-F standards and 2005 CSBC is 85 mph without ice and 38 mph with 1" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Verizon in place at 137 ft, the tower meets the requirements of the *TIA/EIA-222-F* standards and *2005 CSBC* provided the **Recommendations** listed below are satisfied. Furthermore, provided the foundation was designed and constructed to support the original design reactions (see Nudd Project No. 308-13019), the foundation should have the necessary capacity to support the existing and proposed loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e., the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and *2005 CSBC* are met with the existing and proposed loading in place, we have the following recommendations:

- 1. The proposed feed lines should be installed inside the pole's shaft.
- 2. RRU/RRH Stipulation: The proposed equipment may be installed in any arrangement as determined by the client.

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. If the actual layout determined in the field deviates from the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
148.7	(3) Ericsson AIR B2A B4P (3) Ericsson AIR B4A B2P (3) Ericsson KRY 122 144/1 TMAs	(12) 1-5/8" (1) 1-5/8" Fiber	T-Mobile	146.5	(1) 12.5' Low Profile Platform
137	(3) Antel BXA-70063-6CF (3) Antel BXA-171085-12BF (4) Antel LPA-80080-6CF (2) Antel LPA-4019 (6) RFS FD9R6004/2C-3 Diplexers	(12) 1-5/8"	Verizon	136	(1) 12.5' Low Profile Platform
127	(9) Powerwave 7770 (3) KMW AM-X-CD-17-65-00T (12) Powerwave LGP21401 TMAs (1) Raycap DC2-48-60-18-8F Surge Arrestor	(12) 1-5/8" (2) 3/4" DC (1) 7/16" Fiber	New Cingular	127	(1) Low Profile Platform
	(6) Ericsson RRUS-11 RRUs	(1) 1/2" RET			(1) Collar Mount (Valmont Part No. UPC1)

^{1.} Feed lines installed inside the pole's shaft unless otherwise noted.

Proposed Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
137	(3) Antel BXA-70063-6CF (3) Antel BXA-171085-12BF (4) Antel LPA-80080-6CF (2) Antel LPA-4019 (3) Alcatel Lucent RRH2X40-AWS RRHs (1) RFS DB-T1-6Z-8AB-0Z Distribution Box	(12) 1-5/8" (1) 1-5/8" Fiber	Verizon	136	(1) 12.5' Low Profile Platform

RESULTS

The following yield strength of steel for individual members was used for analysis:

Table 2 - Material Strength

Member Type	Yield Strength
Tower Shaft Sections	65 ksi
Base Plate	50 ksi
Anchor Bolts	105 ksi

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information.

Table 3 - Summary of Working Percentage of Structural Components

Section No	Elevation (ft)	Component Type	Size	% Capacity	Pass Fail
L1	149 - 107	Pole	TP35.8125x25.875x0.25	42.3	Pass
L2	107 - 62	Pole	TP45.875x34.1295x0.3125	62.3	Pass
L3	62 - 18	Pole	TP55.625x43.8405x0.375	62.8	Pass
L4	18 - 0	Pole	TP59.0625x53.2252x0.4375	58.1	Pass
		Anchor Bolts	(18) 2" Ø w/ BC = 66"	65.9	Pass
		Base Plate	PL 72" Ø x 2.75" Thk	39.8	Pass

^{*}Capacities include a 1/3 allowable increase for wind per TIA/EIA-222-F standards.

Table 4 - Maximum Base Reactions

Base Reactions	Current Analysis (TIA/EIA-222-F)	Original Design (TIA/EIA-222-F)
Axial	39 k*	38 k
Shear	27 k	36 k
Moment	2,871 k-ft	4,056 k-ft

^{*}Per our experience with foundations of similar type, the axial loading should not control the foundation analysis.

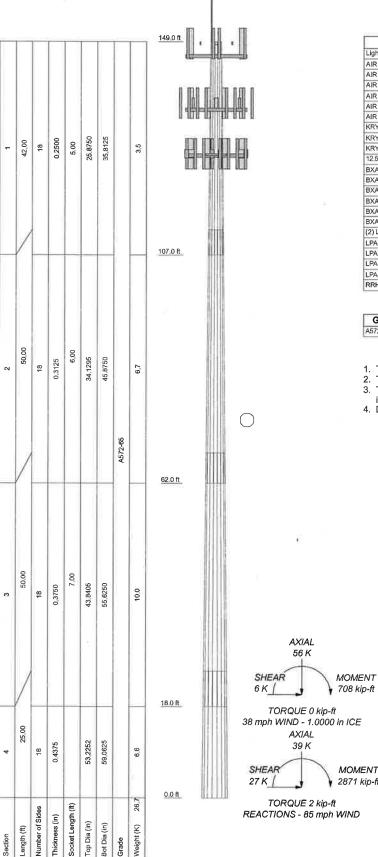
GENERAL COMMENTS

This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

APPENDIX



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION	
Lightning Rod	149	RRH2X40-AWS	136	
AIR 21 B2A/B4P w/Mount Pipe	146.5	RRH2X40-AWS	136	
AIR 21 B2A/B4P w/Mount Pipe	146.5	DB-T1-6Z-8AB-0Z Distribution Box	136	
AIR 21 B2A/B4P w/Mount Pipe	146.5	12.5' Low Profile Platform	136	
AIR 21 B4A/B2P w/Mount Pipe	146.5	(3) 7770 w/ Mount Pipe	127	
AIR 21 B4A/B2P w/Mount Pipe	146.5	(3) 7770 w/ Mount Pipe	127	
AIR 21 B4A/B2P w/Mount Pipe	146.5	(3) 7770 w/ Mount Pipe	127	
KRY 112 144/1	146.5	AM-X-CD-17-65-00T-RET w/ Mount	127	
KRY 112 144/1	146.5	Pipe		
KRY 112 144/1	146.5	AM-X-CD-17-65-00T-RET w/ Mount	127	
12.5' Low Profile Platform	146.5	Pipe		
BXA-70063/6CF w/ Mount Pipe	136	AM-X-CD-17-65-00T-RET w/ Mount Pipe		
BXA-70063/6CF w/ Mount Pipe	136	(2) RRUS 11	127	
BXA-70063/6CF w/ Mount Pipe	136	(2) RRUS 11	127	
BXA-171085-12BF w/ Mount Pipe	136	Center-management		
BXA-171085-12BF w/ Mount Pipe	136	(2) RRUS 11	127	
BXA-171085-12BF w/ Mount Pipe	136	(4) LGP21401 TMA	127	
(2) LPA-80080/6CF w/ Mount Pipe	136	(4) LGP21401 TMA	127	
LPA-80080/6CF w/ Mount Pipe	136	(4) LGP21401 TMA	127	
LPA-80080/6CF w/ Mount Pipe	136	DC2-48-60-18-8F Surge Arrestor	127	
LPA-4019 w/ Mount Pipe	136	Low Profile Platform	127	
LPA-4019 W/ Mount Pipe	136	Collar Mount	127	
RRH2X40-AWS	136			

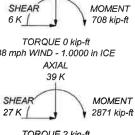
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			-

TOWER DESIGN NOTES

- 1. Tower is located in Windham County, Connecticut.
- 2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
- Tower is also designed for a 38 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.

 4. Deflections are based upon a 50 mph wind.



FDH

FDH Engineering, Inc. Thompson 1, CT11559-A-00 Project: 1420F1400 6521 Meridien Drive Client: SBA Network Services, Inc. Drawn by: Mark S. Girgis App'd: Raleigh, NC 27616 Scale: NTS Code: TIA/EIA-222-F Date: 04/07/14 Phone: (919) 755-1012 Dwg No. E-FAX: (919) 755-1031