

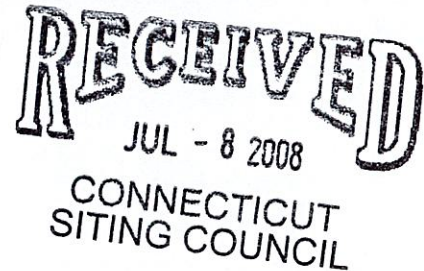


New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

EM-CING-065-080708

July 2, 2008



Honorable Daniel F. Caruso, Chairman,
and Members of the Connecticut Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Existing Municipal Tower Facility off Welsh Road, Hartland, Connecticut

Dear Chairman Caruso and Members of the Council:

New Cingular Wireless PCS, LLC (“AT&T”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 22 Welsh Road in Hartland, Connecticut.

AT&T operates under licenses issued by the Federal Communications Commission (“FCC”) to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by AT&T’s proposed installation.

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the 1st Selectman of Hartland.

Existing Facility

The Hartland facility is located at 22 Welsh Road, just north of CT Rte 539 approximately 2.5 miles west of North Granby. Site coordinates (NAD83) are N41° 59’ 51” and W72° 53’ 15.8”.

The facility is owned and operated by the Town of Hartland.

The Hartland facility was initially approved by local Planning & Zoning officials. It came

under Council jurisdiction by operation of Verizon's application in TS-VER-065-080201.

The facility consists of a 180-foot self-supporting lattice tower within a 67 ft x 74 ft fenced compound. It is currently in use by the Town of Hartland, and Verizon Wireless has been approved to co-locate at the site.

Proposed Modifications.

As shown on the attached drawings and as further described below, AT&T proposes to install up to six Powerwave 7770 dual band panel antennas, or their equivalent, approximately 55 inches in height, at a centerline height of 160 feet above ground level. AT&T also proposes to place a 12 ft x 20 ft prefabricated concrete equipment shelter at the base of the tower.

Attached to this Notice are a location map; site plans and tower profiles; and a structural analysis report that shows the tower will be structurally capable of supporting the proposed AT&T telecommunications equipment at 160 feet above ground level.¹

Statutory Considerations

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

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place within the approved lease area.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. Operation of AT&T's antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculations in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the proposed antenna array are as follows:

¹ The Council approved Verizon's co-location for 180 ft AGL, whereas the materials submitted by AT&T indicate that Verizon's antennas will be at 170 ft AGL. We have learned that Verizon was unable to mount its antennas at 180 ft and will move or has moved to 170 ft instead. We understand that Verizon intends to submit an amended tower sharing application.

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Town **	190	154	2	85	0.0017	0.2000	0.85
Verizon *	170	1970	3	485	0.0181	1.0000	1.81
Verizon *	170	875	9	200	0.0224	0.5833	3.84
AT&T	160	1930-1935 1965-1970	2	427	0.0120	1.0000	1.20
AT&T	160	880-894	4	296	0.0166	0.5867	2.83
AT&T	160	880-894	1	500	0.0070	0.5867	1.20
TOTAL							11.7%

* Approved power density parameters from Council records.

** Number of Channels and Power per Channel are conservative estimates.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 11.7% of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from AT&T's use of the tower facility would thus be within applicable standards.

For the foregoing reasons, AT&T respectfully submits that proposed changes at the Hartland facility constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me with questions any concerning this notice. Thank you for your consideration in this matter.

Respectfully yours,



Steve Levine
Real Estate Consultant

Enclosures

cc: Honorable Wade E. Cole, 1st Selectman, Town of Hartland
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Hartland - Welsh Road Tower

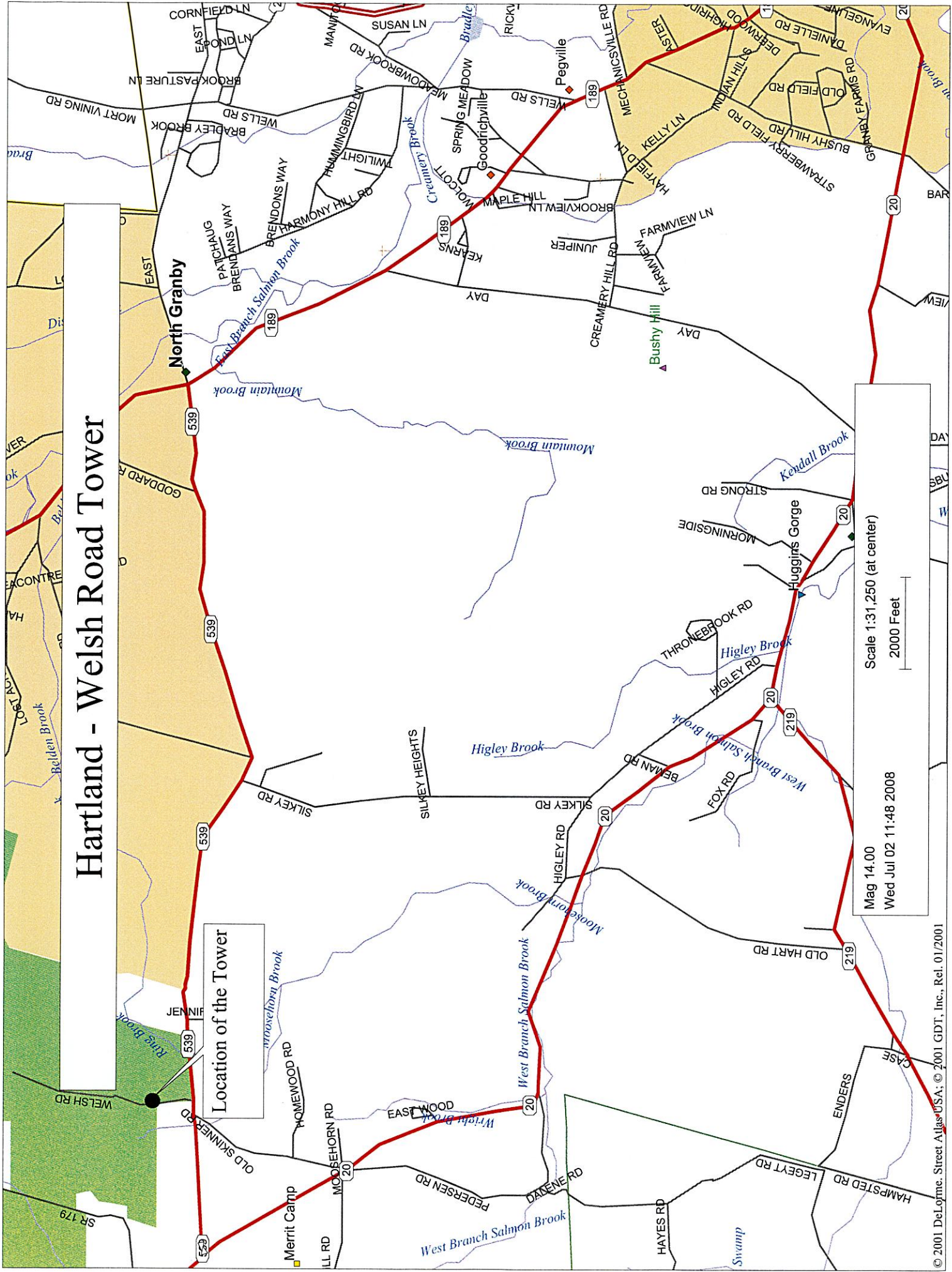
Location of the Tower

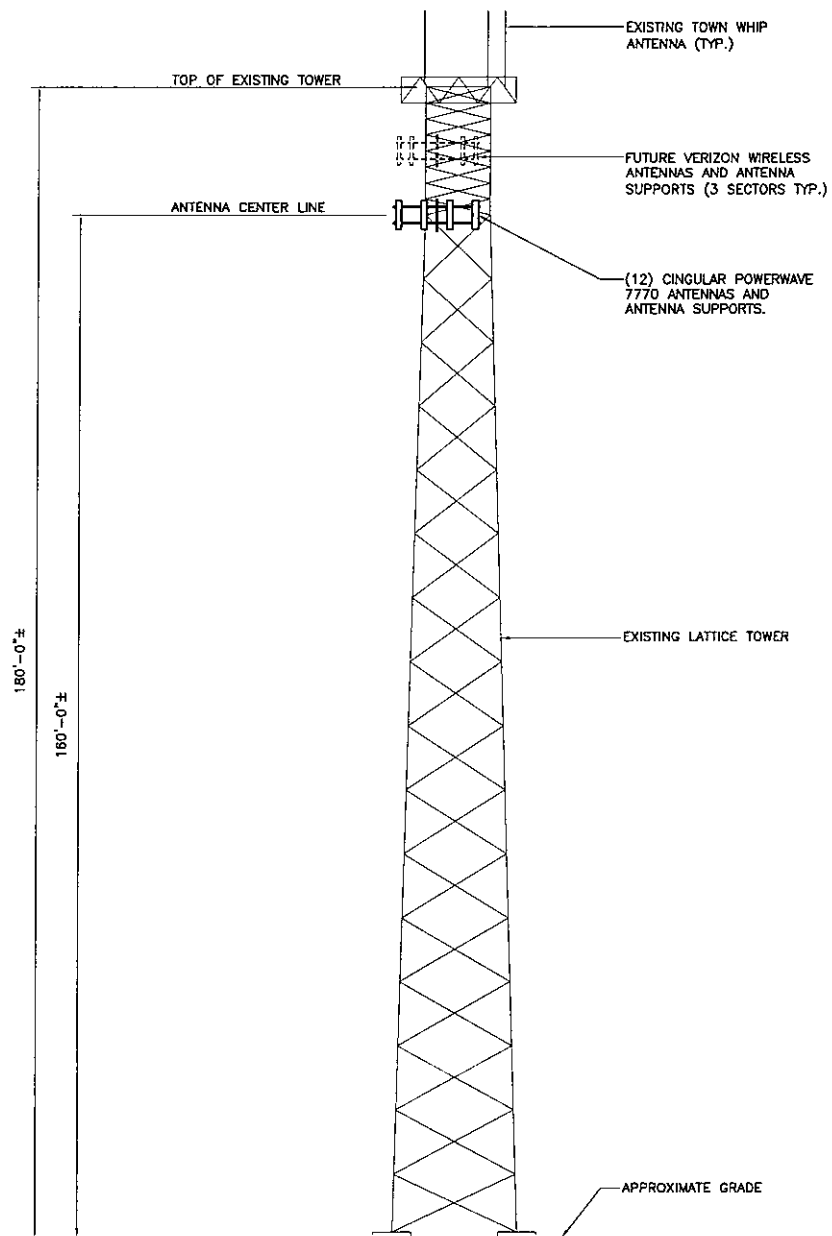
Scale 1:31,250 (at center)

2000 Feet

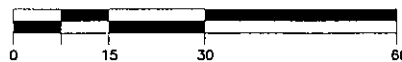
Mag 14.00

Wed Jul 02 11:48 2008





1 TOWER ELEVATION
L-2
SCALE: 1"=30'-0"



PROJECT NO.
369

Designed by:

Drawn by: RRH

Checked by:

Approved by:

URS CORPORATION AES

500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS



at&t
Your world delivered

SITE ADDRESS:

EAST HARTLAND
22 EAST WELSH ROAD
EAST HARTLAND, CONNECTICUT

REV. DATE: DESCRIPTION

Scale: AS NOTED Date: 5/12/08

Job No. SAJ-034

File No.

Dwg. No.

L-2

Dwg. 2 of 2



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500 Enterprise Drive
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Steven L. Levine
Real Estate Consultant

July 2, 2008

Honorable Wade E. Cole
1st Selectman, Town of Hartland
Town Office Bldg., 22 South Road
East Hartland, CT 06027

**Re: Notice of Exempt Modification – Existing Municipal Tower Facility off Welsh Road,
Hartland, Connecticut**

Dear Mr. Cole:

New Cingular Wireless PCS, LLC ("AT&T") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 22 Welsh Road in Hartland.

The facility is owned and operated by the Town of Hartland.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73. Please accept this letter as notification to the Town of Hartland under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the AT&T proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council's procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Steve Levine
Real Estate Consultant

Enclosure

DETAILED STRUCTURAL ANALYSIS AND EVALUATION OF AN EXISTING 180' SELF SUPPORTING LATTICE TOWER AND ITS FOUNDATION FOR PROPOSED ANTENNA ARRANGEMENT

Address: Welsh Road
Hartland, CT

prepared for

cingular
WIRELESS



at&t

New Cingular Wireless PCS, LLC

now AT&T Mobility

500 Enterprise Drive, Suite 3A

Rocky Hill, CT 06067

prepared by

URS

URS CORPORATION

500 ENTERPRISE DRIVE, SUITE 3B

ROCKY HILL, CT 06067

TEL. 860-529-8882

36924704.00000

SAI-034

June 10, 2008

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- 4. FINDINGS AND EVALUATION**
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 - **RISA TOWER INPUT / OUTPUT SUMMARY**
 - **RISA TOWER FEEDLINE DISTRIBUTION CHART**
 - **RISA TOWER FEEDLINE PLAN**
 - **RISA TOWER DETAILED OUTPUT**
 - **ANCHOR BOLT ANALYSIS**
 - **FOUNDATION ANALYSIS**

1. EXECUTIVE SUMMARY

This report summarizes the structural analysis of the existing 180' self support lattice tower structure, located off Welsh Road in Hartland, CT. The analysis was conducted in accordance with the 2005 Connecticut State Building Code and the TIA/EIA-222-F standard for a basic wind velocity of 80 mph (fastest mile) and 69 mph (fastest mile) concurrent with 0.50" ice. The antenna loading considered in the analysis consists of all existing and proposed antennas, transmission lines, and ancillary items as outlined in the Introduction Section of this report.

The proposed AT&T/Cingular Wireless installation is as follows:

Proposed Antenna and Mount	Carrier	Antenna Center Elevation
<u>Install:</u> <u>Alpha, Beta and Gamma Sectors</u> (6) Powerwave 7770 panel antennas (12) Powerwave LGP 21401 TMA's (6) Powerwave 7020 RET Units all on (3) 12' Valmont Lightweight T-Frames P/N 803444 (Note: Antenna pipes ordered separately) with (12) 1 5/8" coaxial cables on Valmont/PiROD T-Line Brackets P/N 125495 located inside of Leg C. Refer to coax feed line plan for location.	AT&T/Cingular (Proposed)	@ 160'

The results of the analysis indicate that the tower structure has the capacity to support the proposed loading conditions. **The tower and its foundation are considered structurally adequate with the wind load classification specified above and the proposed antenna loading.**

This analysis is based on:

- 1) The tower structure's theoretical capacity, not including any assessment of the condition of the tower.
- 2) Tower geometry and structural member sizes taken from the manufacturers original design documents prepared by Valmont Structures, on behalf of Roadrunner Installation Services, dated April 04, 2006.
- 3) Site documentation and visual verification of existing appurtenances conducted from existing grade by URS during May 2008.
- 4) Antenna and mount configuration as specified in Section 2 and 6.
- 5) Coaxial cable orientation as specified in Section 6 of this report.

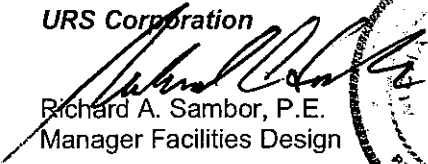
1. **EXECUTIVE SUMMARY - continued**

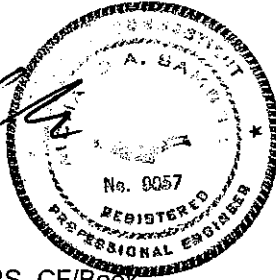
This report is only valid as per the assumptions and data utilized in this report for antenna inventory, mounts and associated cables. The user of this report shall field verify the assumption of the antenna and mount configuration as well as the physical condition of the tower. Notify the engineer in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

If you should have any questions, please call.

Sincerely,

URS Corporation


Richard A. Sambor, P.E.
Manager Facilities Design



RAS/jrm

cc: AA, DR, ICA – URS, CF/Book

2. INTRODUCTION

The subject tower is located at 10 Welsh Road in Hartland, CT. The structure is an existing 180' self supporting truss-legged steel tapered lattice tower designed and manufactured by Valmont Structures in 2006.

The inventory is summarized in the table below:

Antenna Type	Carrier	Mount	Antenna Centerline Elevation	Cable
(1) 20' 4 Bay Dipole	Municipal (existing)	6 Arm Halo	190'	(1) 1-5/8"
(2) 20' x 3" Omni Whips	Municipal (existing)	6 Arm Halo	190'	(2) 1-5/8"
(6) Antel LPA 80080/6CF and (6) LPA 185080/12CF panel antennas	Verizon (reserved)	(3) 12' Lightweight T-Frames	170'	(12) 1-5/8"
(6) Powerwave 7770 antennas, (12) Powerwave LGP21401 TMA's and (6) Powerwave 7020 RET units	AT&T (proposed)	(3) Valmont 12' Lightweight T-Frames P/N 803444	160'	(12) 1-5/8"

Note: AT&T/Cingular coaxial cables shall be located on Valmont/PIROD T-Line Brackets P/N 125495 (per original design documents) located inside of Leg C. Refer to Section 6 Tower Feed Line Plan for coaxial cable locations.

This structural analysis of the communications tower was performed by URS Corporation (URS) for AT&T/Cingular Wireless. The purpose of this analysis was to investigate the structural integrity of the existing tower with its existing and proposed antenna loads. This analysis was conducted to evaluate stress on the tower and the effect of forces to the foundation of the tower resulting from existing and proposed antenna arrangements.

3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS

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

The analysis was conducted using RISA Tower 5.1.1. Two load conditions were evaluated as shown below which were compared to allowable stresses according to AISC and TIA/EIA.

Load Condition 1 = 80 mph (fastest mile) Wind Load (without ice) + Tower Dead Load
Load Condition 2 = 69 mph (fastest mile) Wind Load (with ice) + Ice Load + Tower Dead Load

Please note that wind pressure is a function of velocity squared. Under Load Condition 2, a 25 percent reduction in wind pressure is allowed by code to account for the unlikelihood of the full wind pressure and ice load occurring at the same time. The same results may be achieved by utilizing a lower wind pressure without taking the 25 percent reduction, as shown above.

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

4. FINDINGS AND EVALUATION

The stresses on the tower structure were evaluated to compare with the allowable stress in accordance with AISC. The results of the analysis indicate that the calculated stresses under the proposed loading are **BELOW** the allowable stresses (see tables below). Additionally, the anchor bolts and foundation were found to be within the allowable limits.

TABLE 1: Tower Base Reactions:

For detailed proposed tower reactions, see drawing no. E-1 in section 6 of this report.

Base Reactions	Proposed Reactions
Axial Load (kips)	62
Shear per Leg (kips)	24
Total Shear (kips)	35
Uplift per Leg (kips)	176
Comp. per Leg (kips)	232
O.T. Moment (ft-kips)	3664

TABLE 2: Tower Component Stress vs. Capacity Summary:

Component/ (Section No.)	Existing Component Size	Controlling Component/Elevation	Stress (% capacity)	Pass/Fail
Tower Leg (T3)	PIROD Truss Leg	Compression/120'-140'	66.3%	Pass
Diagonal (T4)	L2 1/2x2 1/2x3/16	Compression/100'-120'	61.0%	Pass
Horizontal (T1)	3/4" SR	Compression/160'-180'	13.2%	Pass
Top Girt (T1)	7/8" SR	Compression/160'-180'	3.2%	Pass
Bottom Girt (T1)	7/8" SR	Compression/160'-180'	4.7%	Pass
Bolt Checks				
Leg (T7)	1" dia A325N	Tension/40'-60'	48.4%	Pass
Anchor Bolts		Tension	40%	Pass

TABLE 3: Foundation Summary

Foundation	Component	Stress (% capacity/FOS)	Pass/Fail	Comments:
Reinf. Concrete Pad and Pier	OTM	96%/2.08	Pass	Min. F.O.S of 2.0 req'd per IBC 2003 Section 3108.4.2

Note: OTM denotes overturning moment.

5. CONCLUSIONS

The results of the analysis indicate that the tower structure has the capacity to support the proposed loading conditions. **The tower and its foundation are considered structurally adequate with the wind load classification specified above and the proposed antenna loading.**

Limitations/Assumptions:

This report is based on the following:

- 1) Tower inventory as listed in this report.
- 2) Tower is properly installed and maintained.
- 3) All members are as specified in the original design documents and are in good condition.
- 4) All required members are in place.
- 5) All bolts are in place and are properly tightened.
- 6) Tower is in plumb condition.
- 7) All member protective coatings are in good condition.
- 8) All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
- 9) Foundations were properly constructed to support original design loads as specified in the original design documents.
- 10) All coaxial cable is installed as specified in Section 6 of this report

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

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

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

Ongoing and Periodic Inspection and Maintenance:

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

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

6. DRAWINGS AND DATA

RISA TOWER INPUT/OUTPUT SUMMARY

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	
Legs	SR 1 1/2	Prod 105216		Prod 105217	Prod 105218		Prod 105219	Prod 105220		
Leg Grade					A572-50					
Diagonals					L3x3x3/16		L3x3x5/16	L3 1/2x3 1/2x5/16		
Diagonal Grade					A36					
Top Girts	SR 3/4				N.A.					
Bottom Girts	A572-50				N.A.					
Horizontals	SR 7/8				N.A.					
Face Width (ft)	SR 3/4				12	14	16	18	20	
# Panels @ (ft)					16 @ 10					
Weight (K)	8 @ 2.375				3.0	4.2	4.3	5.3	27.0	

180.0 ft

160.0 ft

140.0 ft

120.0 ft

100.0 ft

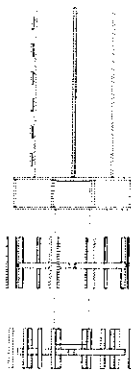
80.0 ft

60.0 ft

40.0 ft

20.0 ft

0.0 ft



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
20' x 3" Dia Omni (Municipal)	190	LPA-185080/12CF (Verizon - reserved)	170
20' x 3" Dia Omni (Municipal)	190		
20' 4-Bay Dipole (Municipal)	190	LPA-80080/6CF (Verizon - reserved)	170
6 Arm Halo Mount	178		
PIROD 12' Lightweight T-Frame (Verizon - reserved)	170	PIROD 12' Lightweight T-Frame (ATT/Cingular - prop)	160
PIROD 12' Lightweight T-Frame (Verizon - reserved)	170	PIROD 12' Lightweight T-Frame (ATT/Cingular - prop)	160
PIROD 12' Lightweight T-Frame (Verizon - reserved)	170	PIROD 12' Lightweight T-Frame (ATT/Cingular - prop)	160
LPA-80080/6CF (Verizon - reserved)	170	(4) 7770.00 w/ mount pipe (ATT/Cingular - prop)	160
LPA-185080/12CF (Verizon - reserved)	170	(4) 7770.00 w/ mount pipe (ATT/Cingular - prop)	160
LPA-185080/12CF (Verizon - reserved)	170	(4) 7770.00 w/ mount pipe (ATT/Cingular - prop)	160
LPA-80080/6CF (Verizon - reserved)	170	(4) LPG 21401 TMA (ATT/Cingular - prop)	160
LPA-80080/12CF (Verizon - reserved)	170	(4) LPG 21401 TMA (ATT/Cingular - prop)	160
LPA-185080/12CF (Verizon - reserved)	170	(4) LPG 21401 TMA (ATT/Cingular - prop)	160
LPA-80080/6CF (Verizon - reserved)	170	(2) 7020 RET Unit (ATT/Cingular - prop)	160
LPA-80080/6CF (Verizon - reserved)	170	(2) 7020 RET Unit (ATT/Cingular - prop)	160
LPA-185080/12CF (Verizon - reserved)	170	(2) 7020 RET Unit (ATT/Cingular - prop)	160
LPA-185080/12CF (Verizon - reserved)	170		

MATERIAL STRENGTH

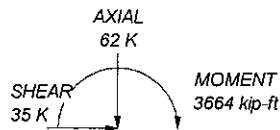
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

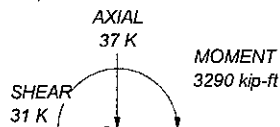
1. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Tower is also designed for a 69 mph basic wind with 0.50 in ice.
3. Deflections are based upon a 50 mph wind.
4. TOWER RATING: 66.3%

MAX. CORNER REACTIONS AT BASE:

DOWN: 232 K
 UPLIFT: -176 K
 SHEAR: 24 K



TORQUE 5 kip-ft
 69 mph WIND - 0.5000 in ICE



TORQUE 5 kip-ft
 REACTIONS - 80 mph WIND

URS Corporation
 500 Enterprise Drive, Suite 3B
 Rocky Hill, CT 06067
 Phone: (860) 529-8882
 FAX: (860) 529-3991

Job: **U20.0 x180' Valmont Self-Support La**
 Project: **10 Welsh Rd, East Hartland**
 Client: **AT&T/Cingular - SAI** Drawn by: **Staff** App'd:
 Code: **TIA/EIA-222-F** Date: **06/10/08** Scale: **N**
 Path: **P:\05\ERI\Files\180 PIROD U20 x180 Lattice Hartland CT.dwg** Dwg No. **E**