

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 www.ct.gov/csc

March 18, 2009

Steven L. Levine Real Estate Consultant New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, CT 06067-3900

RE: **EM-CING-041-090205** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 33 Neptune Avenue, East Haddam, Connecticut.

Dear Mr. Levine:

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:

- The tower shall be modified per Appendix F of the structural analysis report dated February 4, 2009 and sealed by David Granger, P.E. prior to the antenna swap;
- A post-construction tower rating of not more than 100 percent shall be achieved; and
- A signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the modifications have been properly completed and a post-construction tower rating of not more than 100 percent has been achieved.

The proposed modifications are to be implemented as specified here and in your notice dated February 5, 2009, including the placement of all necessary equipment and shelters within the tower compound. 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.



Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

H-as

Executive Director

SDP/MP/laf

c: The Honorable Mark B. Walter, First Selectman, Town of East Haddam James Ventres, Land-Use Administrator, Town of East Haddam American Legion

EM-CING-041-090205





Singular Wireless PCS, LLC

Rocky Hill, Connecticut 06067-3900

Phone: (860) 513-7636 Fax: (860) 513-7190

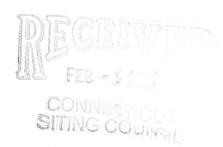
ORIGINAL

Steven L. Levine Real Estate Consultant

HAND DELIVERED

February 5, 2009

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



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 33 Neptune Avenue, East Haddam (owner, American Legion)

Dear Chairman Caruso and Members of the Council:

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

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

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

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

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

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

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Steven L. Levine

Real Estate Consultant

Attachments

NEW CINGULAR WIRELESS Equipment Modification

33 Neptune Avenue, East Haddam

Site Number 5870 Former AT&T cell site Petition 637 approved 11/03

Tower Owner/Manager:

American Legion

Equipment Configuration:

Light Pole

Current and/or Approved: Three Allgon 7250 panel antennas @ 90 ft AGL

Six runs 7/8 inch coax cable

Concrete pad with outdoor equipment cabinets

Planned Modifications:

Remove all existing antennas

Install three Powerwave 7770 antennas (or equivalent) @ 90 ft

Install six TMA's diplexers @ 90 ft

Remove one existing cabinet

Install one new outdoor cabinet for UMTS

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 4.4 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 16.5 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *							0.00
AT&T GSM *	90	1900 Band	4	250	0.0444	1.0000	4.44
Total							4.4%

^{*} Per CSC records

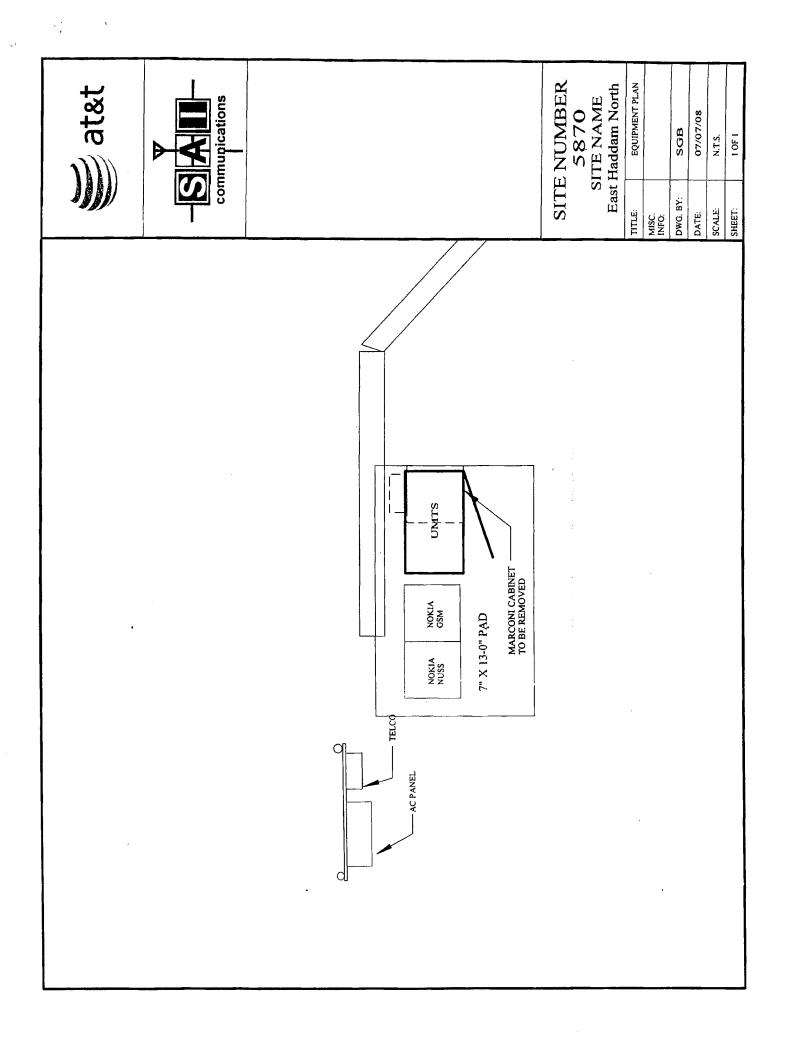
Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *				,			0.00
AT&T UMTS	90	880 - 894	1	500	0.0222	0.5867	3.78
AT&T GSM	90	1900 Band	2	427	0.0379	1.0000	3.79
AT&T GSM	90	880 - 894	4	296	0.0526	0.5867	8.96
Total							16.5%

^{*} Per CSC records

Structural information:

The attached structural analysis demonstrates that the tower and foundation will have adequate structural capacity to accommodate the proposed equipment modifications upon completion of recommended structural modifications to the tower. (GPD Group, 2/4/09)







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

February 5, 2009

Honorable Mark B. Walter 1st Selectman, Town of East Haddam Town Office Bldg. 7 Main Street East Haddam, CT 06423

Re: Telecommunications Facility – 33 Neptune Avenue, East Haddam

Dear Mr. Walter:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T's proposal. Please accept this letter as notification 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 accompanying letter to the Siting Council fully describes AT&T's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine Real Estate Consultant

Enclosure



Derek Creaser Hudson Design Group, LLC 1600 Osgood Street, Building 20 North, Suite 2-101 North Andover, MA 01845 (617) 306-3034



Aaron Herkenhoff 520 South Main St., Suite 2531 Akron, Ohio 44311 (330) 572-2199 aherkenhoff@gpdgroup.com

GPD# 2009147.01 February 4, 2009

STRUCTURAL ANALYSIS REPORT

HDG DESIGNATION:

Site B-ID:

CT5870

Site Name:

East Haddam North

AT&T DESIGNATION:

Site USID:

27088

Site FA: Site Name: 10071141 East Haddam North

ANALYSIS CRITERIA:

Codes:

TIA/EIA-222-F & 2003 IBC

85-mph with 0" ice 74-mph with 1/2" ice

SITE DATA:

33 Neptune Avenue, East Haddam, CT 06469, Middlesex County

Latitude 41° 29' 55.643" N, 72° 27' 35.999" W

90' FT Monopole Tower

Mr. Derek Creaser,

GPD is pleased to submit this Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the addition of the following proposed loading configuration:

Elev. 88'

(3) Powerwave 7770 Antennas on (3) 1' Standoffs, w/ (6) 7/8" existing coax

(6) LGP 21401 TMA's, on the same mount

Based on our analysis we have determined the <u>design of the tower and its foundation will be sufficient once the modifications are installed in reference to the GPD design drawings (Job #: 2009147.01, dated 2/4/09, see Appendix F) for the proposed, existing, and reserved loadings as referenced in Appendix A.</u>

We at GPD appreciate the opportunity of providing our continuing professional services to you and AT&T. If you have any questions please do not hesitate to call.

Respectfully submitted,

David B. Granger, P.E.

Connecticut #:17557

SUMMARY & RESULTS

The purpose of this analysis was to verify that the existing structure is capable of carrying the proposed loading configuration as specified AT&T to Hudson Design Group. This report was commissioned by Mr. Derek Creaser of Hudson Design Group.

No foundation or geotechnical information was available or provided for this report. Therefore, the in place capacity of the existing foundation could not be verified. A geotechnical investigation and foundation exploration are recommended to verify the capacity of the foundation with the proposed loading.

Modifications have been designed by GPD Associates (lob #: 2009147.01 dated 2/4/09, see Appendix F) and consisted of reinforcing the pole from 0' - 25'.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Monopole	94.9%	Pass
Base Plate	89.8%	Pass
Anchor Rods	58.6%	Pass
Foundation*	85.3%	Pass

^{*}Capacity determined by comparing analysis reactions to original design reactions.

RECOMMENDED MODIFICATIONS

The design of the existing tower and its foundation will be sufficient for the proposed loads once the modifications by GPD Associates (lob #: 2009147.01, dated 2/4/09) are installed.

ANALYSIS METHOD

RISA Tower (Version 5.3.0.1), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information and being provided without the benefit of a site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
AT&T Proposed Loading	RF Data Sheet, Dated 10/29/2008	HDG
Previous Structural Analysis	JEM Engineering & Manufacturing, Inc. Quote #: Q23486, dated 3/4/2003	HDG
Foundation Drawings	JEM Engineering & Manufacturing, Inc. Job # 12061, dated 2/12/03	HDG
Modification Drawings	GPD Associates Job #: 2009147.01, dated 2/4/09	GPD

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the Monopole. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

- 1. The Monopole sizes and shape are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
- The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
- 3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
- 4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed; this analysis is limited to analyzing the tower only.
- 5. The soil parameters are as per data supplied or as assumed and stated in the calculations. If no data is available, the foundation system is not verified. In the case of absent foundation data, it is the tower owner's responsibility to insure that the foundation system is adequate to support the structure with its new reactions.
- 6. The tower and structures have been properly maintained in accordance TIA Standard and/or with manufacturer's specifications.
- 7. All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report.
- 8. All prior structural modifications, if any, are assumed to be as per data supplied/available, to have been properly installed and to be fully effective.
- 9. Tower Mounted Amplifiers and diplexers are assumed to be installed behind antennas.
- 10. All existing loading was obtained from the previous structural analysis by JEM Engineering & Manufacturing, Inc. Quote #: Q23486, dated 3/4/2003, site photos and the provided preliminary tower summary and is assumed to be accurate.
- 11. All proposed coax is assumed to be internal to the monopole.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD Associates should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD ASSOCIATES has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD ASSOCIATES does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD ASSOCIATES provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD ASSOCIATES, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

GPD ASSOCIATES makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD ASSOCIATES will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD ASSOCIATES pursuant to this report will be limited to the total fee received for preparation of this report.

2/4/2009 Page 4 of 4

Tower Analysis Summary Form

EAST HADDAM NORTH 27088 2/4/2009 GPD General Info
Site Manne
Site Number
Site of Analysis
Company Performing Analysis

8 ₹ Tower Hight (G. SST, MP)

Tower Height (top of steel AGL) 9

Tower Manufacturer

Tower Model Tower Mapping Previous Structural Analysis Manufacturer Drawings Foundation Design Geotech Report **Tower Info**

TIA/EIA-222-F Middlesex, Connecticut 85-fastest Design Parameters
Design Code Used
Location of Tower (County, State)
Basic Wind Speed (mph)
ice Thickness (in) Structure Classification (I, II, III) Exposure Category (B, C, D) Topographic Category (1 to 5)

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Analysis Results Existing & reserved Condition	107.8%	79.7%	n/a	ndition	94.9%	85.3%	e/u
Analysis Results Existing & reserv	Tower	Foundation	Guy Wire	Proposed Condition	Tower	Foundation	Guv Wire

Monopole 50
Anchor Rods 55
Base Plate 36
Note: Steel grades were taken from previous analysis. Steel Yield Strength (ksi) Monopole Anchor Rods

NOTE: THIS ANALYSIS CONSIDERS PROPOSED MODIFICATIONS

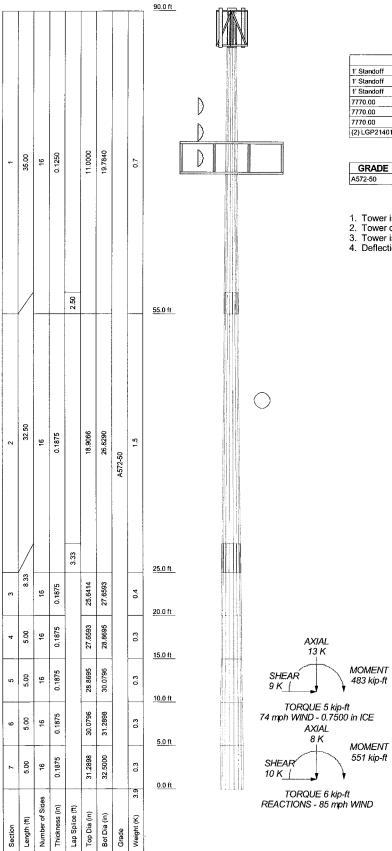
Existing/Reserved

Attachment Leg/Face Internal 8/2 Size Quantity 35.90 EPA (ft²) total Model Platform with Rails Туре 3 1' Standoff Quantity Azimuth 4.00 EPA (ft²) each 2' Dia. Baseball Field Lights 7250.02 Model Type Quantity 88 73 Attachment Height (ft) Antenna Owner AT&T Mobility Unknown

Proposed

			Antenna					Mount			I	Transmission Line	ine
Antenna Owner	Attachment Height (ft)	Quantity	Туре	Model	EPA (ft²) each	Azimuth	Quantity	Туре	Model	EPA (ff²) total	Quantity	Size	Attachment Leg/Face
AT&T Mobility	88	8	3 Panel	7770.00	5.88			On Existing Mount					
AT&T Mobility 88	88	9	TMA	LGP21401 Shielded On Existing Mount	Shielded			On Existing Mount					
Note: Propose antennas and TMA's are to replace the existing antennas at 88' (coax to be reused)	's are to replace	the existing antennas	it 88' (coax to be	e reused).									
												Revision:1.2	

Revision:1.2 Date: 12/15/06



DESIGNED APPURTENANCE LOADING

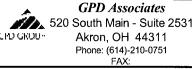
TYPE	ELEVATION	TYPE	ELEVATION
1' Standoff	88	(2) LGP21401	88
1' Standoff	88	(2) LGP21401	88
1' Standoff	88	Valmont 13' Platform w/ Rails (GPD)	73
7770.00	88	(4) 2' Dia. Round Ball Field Light	73
7770.00	88	(4) 2' Dia. Round Ball Field Light	73
7770.00	88	(4) 2' Dia. Round Ball Field Light	73
(2) LGP21401	88		<u> </u>

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi		_	

TOWER DESIGN NOTES

- Tower is located in Middlesex County, Connecticut.
 Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
 Tower is also designed for a 74 mph basic wind with 0.75 in ice.
 Deflections are based upon a 60 mph wind.



	EAST HADDAM N	ORTH C15879		
1	Project: 2009147.01			
	Client: Hudson Design Group	Drawn by: Dan Palkovic	App'd:	
	Code: TIA/EIA-222-F	Date: 02/04/09	Scale:	NTS
	Path: N:\2009\2009147\01\Mod Design\RIS	AVEAST HADDAM NORTH.eri	Dwg No	. E-

RISATower

GPD Associates

520 South Main - Suite 2531 Akron, OH 44311 Phone: (614)-210-0751 FAX:

Job		Page
	EAST HADDAM NORTH CT5879	1 of 2
Project		Date
	2009147.01	08:17:58 02/04/09
Client	Hudson Design Group	Designed by Dan Palkovic

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Middlesex County, Connecticut.

Basic wind speed of 85 mph.

Nominal ice thickness of 0.7500 in.

Ice density of 56 pcf.

A wind speed of 74 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Area

Description	Face	Allow	Component	Placement	Total	11 11 12 12 12 12 12 12 12 12 12 12 12 1	C_AA_A	Weight
	or Leg	Shield	Туре	ft	Number		ft²/ft	plf
LDF5-50A (7/8 FOAM)	С	No	Inside Pole	88.00 - 8.00	6	No Icc	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
MP3-05 Mod Channel	Α	No	CaAa (Out Of	25.00 - 0.00	2	No Icc	0.17	19.22
			Face)			1/2" Icc	0.35	21.90
						l" Ice	0.52	24.50
MP3-05 Mod Channel	В	No	CaAa (Out Of	25.00 - 0.00	1	No Ice	0.00	19.22
			Face)			1/2" Ice	0.00	21.90
						1" Ice	0.00	24.50

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weigh
			Vert ft ft ft	o	ft		ft²	ft²	K
Valmont 13' Platform w/ Rails (GPD)	С	None		0.0000	73.00	No Ice 1/2" Ice	35.90 40.50	35.90 40.50	1.34 3.00
1' Standoff	Α	From Leg	0.50 0.00	0.0000	88.00	1" Ice No Ice 1/2" Ice	45.10 0.68 1.22	45.10 0.68 1.22	4.00 0.01 0.02
1' Standoff	В	From Leg	0.00 0.50 0.00	0.0000	88.00	1" Icc No Icc 1/2" Icc	1.76 0.68 1.22	1.76 0.68 1.22	0.00 0.01 0.02
1' Standoff	С	From Leg	0.00 0.50 0.00	0.0000	88.00	1" Icc No Icc 1/2" Icc	1.76 0.68 1.22	1.76 0.68 1.22	0.00 0.01 0.02
7770.00	A	From Leg	0.00 1.00 0.00 0.00	2.0000	88.00	1" Ice No Ice 1/2" Ice 1" Ice	1.76 5.88 6.31 6.75	1.76 2.93 3.27 3.63	0.00 0.04 0.07 0.11

RISA Tower

GPD Associates
520 South Main - Suite 2531

Akron, OH 44311 Phone: (614)-210-0751 FAX:

Job		Page
	EAST HADDAM NORTH CT5879	2 of 2
Project		Date
	2009147.01	08:17:58 02/04/09
Client		Designed by
	Hudson Design Group	Dan Palkovic

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weigh
			Vert ft ft ft	o	fi		ft²	ft²	K
7770.00	В	From Leg	1.00	2.0000	88.00	No Ice	5.88	2.93	0.04
		~	0.00			1/2" Ice	6.31	3.27	0.07
			0.00			1" Ice	6.75	3.63	0.11
7770.00	C	From Leg	1.00	2.0000	88.00	No Ice	5.88	2.93	0.04
		_	0.00			1/2" Ice	6.31	3.27	0.07
			0.00			1" Ice	6.75	3.63	0.11
(2) LGP21401	Α	From Leg	0.00	2.0000	88.00	No Ice	0.00	0.23	0.01
		Ü	0.00			1/2" Ice	0.00	0.31	0.02
			0.00			1" Ice	0.00	0.40	0.03
(2) LGP21401	В	From Lcg	0.00	2.0000	88.00	No Icc	0.00	0.23	0.01
` '		Ü	0.00			1/2" Ice	0.00	0.31	0.02
			0.00			l" Ice	0.00	0.40	0.03
(2) LGP21401	C	From Leg	0.00	2.0000	88.00	No Ice	0.00	0.23	0.01
,		-8	0.00			1/2" Ice	0.00	0.31	0.02
			0.00			1" Ice	0.00	0.40	0.03

		ı	Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weight
				ft	0	0	ft	ft		ft ²	K
(4) 2' Dia. Round Ball	С	Paraboloid w/o	From	2.00	0.0000		73.00	2.00	No Ice	3.14	0.08
Field Light		Radome	Leg	2.00					1/2" Ice	3.41	0.11
•			_	6.00					1" Ice	3.68	0.13
(4) 2' Dia. Round Ball	C	Paraboloid w/o	From	2.00	0.0000		73.00	2.00	No Ice	3.14	0.08
Field Light		Radome	Leg	2.00					1/2" Ice	3.41	0.11
Ö			U	3.00					1" Ice	3.68	0.13
(4) 2' Dia. Round Ball	С	Paraboloid w/o	From	2.00	0.0000		73.00	2.00	No Icc	3.14	0.08
Field Light		Radome	Leg	2.00					1/2" Icc	3.41	0.11
Ö			J	0.00					1" Ice	3.68	0.13

Section Capacity Table

Section	Elevation ft	Component Type	Size	Critical Element	P K	SF*P _{allow} K	% Capacity	Pass Fail
No.	Jı	туре		Liemeni	Λ		Сириспу	run
L1	90 - 55	Pole	TP19.784x11x0.125	1	-2.85	59.45	94.5	Pass
L2	55 - 25	Pole	TP26.829x18.9066x0.1875	2	-4.43	222.92	94.9	Pass
L3	25 - 20	Pole	TP27.6593x25.6414x0.1875	3	-5.41	268,22	*	Pass
L4	20 - 15	Pole	TP28.8695x27.6593x0.1875	4	-6.04	305.10	*	Pass
L5	15 - 10	Pole	TP30.0796x28.8695x0.1875	5	-6.68	342.23	*	Pass
L6	10 - 5	Pole	TP31.2898x30.0796x0.1875	6	-7.33	378.67	*	Pass
L7	5 - 0	Pole	TP32.5x31.2898x0.1875	7	-7.99	414.52	*	Pass
							Summary	
						Pole (L7)	94.9	Pass
						RATING =	94.9	Pass

^{*}See Appendix D for % Capacity

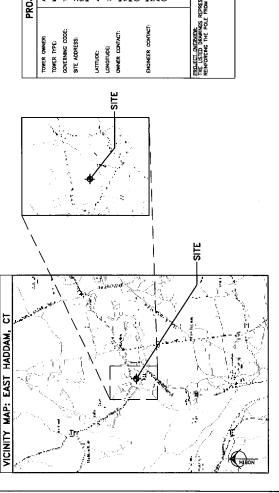
APPENDIX F

Modification Design Drawings

EAST HADDAM NORTH USID # 27088 EXISTING 90' FWT MONOPOLE TOWER

at&t

Hudson H



8d	PROJECT SUMMARY
TOWER OWNER:	AT&T MOBILITY
TOWER TYPE:	MONOPOLE
COVERNING CODE:	TIA/EIA-222-F & 2003 IBC
SITE ADDRESS:	33 NEPTUNE AVENUE EAST MADDAM, CT 06469 MIDDLESEX COUNTY
LATMUDE:	41' 29' 55,643"
LONGITUDE:	72 27' 35,999"
OWNER CONTACT:	MR. DEREK CREASER TAGO OSCODO STRET. BULLDING 20 NORTH, SUITE 2-101 NORTH ANDONE, MA 01945 (617) 306-3034
ENGINEER CONTACT:	MR. JASON CHERONIS 520 S. MAN STRET, SUITE 2531 ARRON, DH 44311 (330)572-2137
PROJECT OVERVIEW: THE LISTED DRAWINGS REPI REINFORCING THE POLE FRA	PROJECT DARANEW. THE LSIED DRAWINGS REPRESENT REQUIRED MODIFICATIONS TO THE TOWER BY REINFORCING THE POLE FROM 0"-25".

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PROJECT NOTES

EAST HADDAM WORTH 33 NEPTUNE AVENUE EAST HADDAM, CT 06469

2009147.01

GPD AND ASSOCIATES

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A, ALI NEW STED, SWAL DE HOT OPFED DALWHEED FOR FULL WEATHER PROTECTION, IN ADDITION ALL NEW STED SWALL DE HATER TO WANTE DESIDENCE STED. COMPLETEN SWALL DEFIN WESTER PERMISSION PROTECT STELL IN ANY OTHER MEWAS. L CAUKNO SHALL BE PROVIDD AROADD PORATER OF ANY ARD ALL STRYDING CHANNELS TO ENGLIFE THE ATTENDANT SHALL BY TO BE STITUSOR THE SHORN CHAIR SHALL BY DE STITUSOR THOSE SHOWN CHAIR SHOWN COLUMNENT OF THE SHOWN CHAIR SHOWN CHAIR OF THE SHOWN CHAIR SHOWN CHAIR OF THE SHOWN CHAIR SHOWN CHAIR OF THE SHOWN CHAIR SHOWN THE TALL DISTING PARTED/DAVANIZED SAFPICES DAMAGED DARME RECVIE PROLEDME AREAS UNDER AND RECOVERY STREAMED BY TALL DAMAGED RESSAY. REPRESENTED BY TALL DAMAGED RESSAY PROLED PARTE (TEXT OF SULPAY, AND REPARATED TO MATCH THE DESSRIE PRESS (OF APPLICABLE).

WHO LONDS: FASTEST MILE WAD SPEED (PER: TA/EN-222—F & 2003 IBC) (MIDDLESCX COUNTY, MA)

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GENERAL NOTES

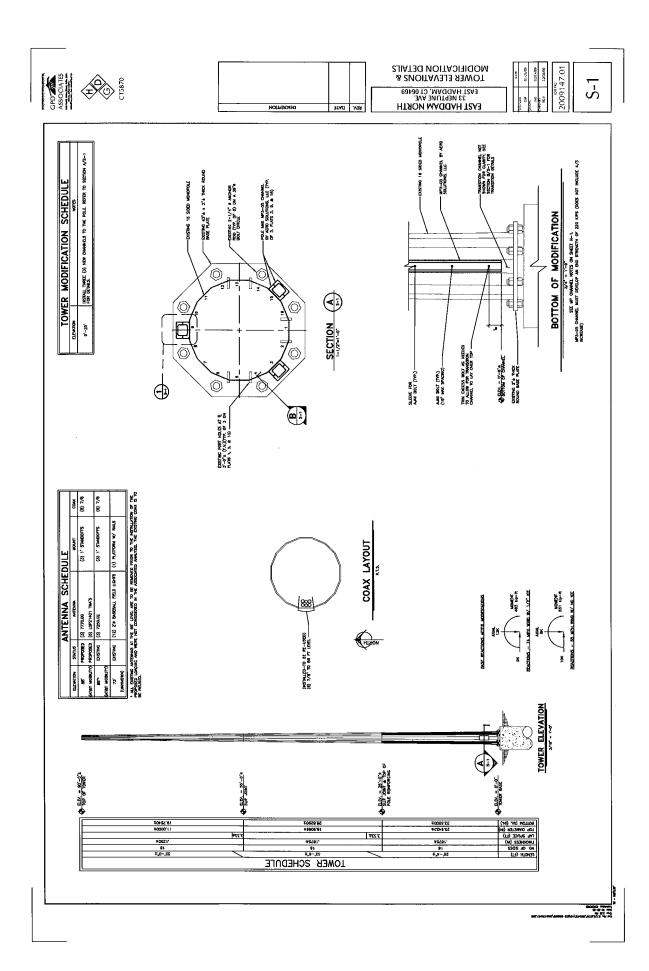
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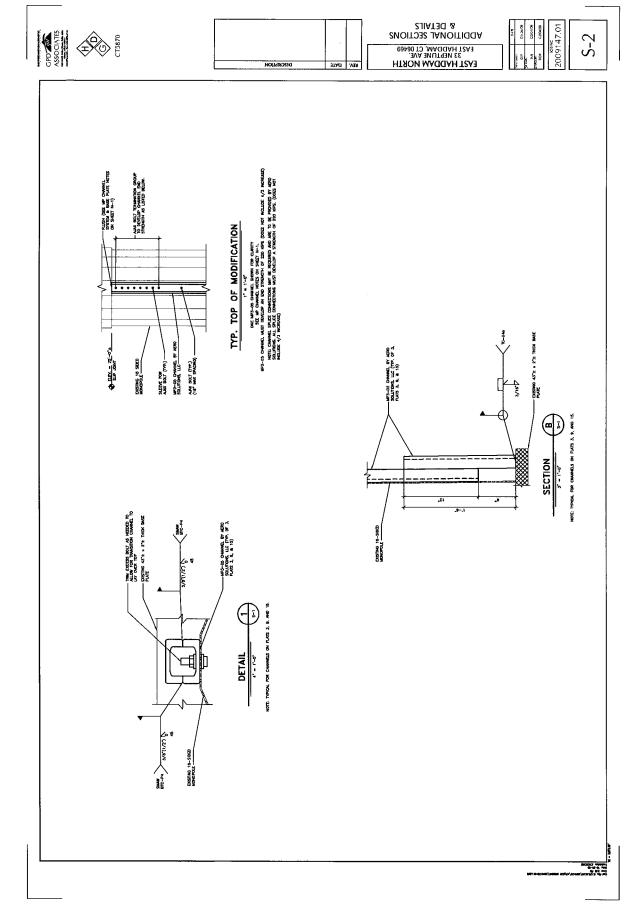
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