

# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

April 13, 2009

Jennifer Young Gaudet  
HPC Development LLC  
53 Lake Avenue Ext.  
Danbury, CT 06811

RE: **EM-T-MOBILE-064-090306** - Omnipoint Communications Inc. (T-Mobile) notice of intent to modify an existing telecommunications facility located at 92 Weston Street, Hartford, Connecticut.

Dear Mrs. Gaudet:

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.

The proposed modifications are to be implemented as specified here and in your notice dated March 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.

Very truly yours,

  
S/ Derek Phelps  
Executive Director

SDP/MP/laf

c: The Honorable Eddie A. Perez, Mayor, City of Hartford  
Lee C. Erdmann, Chief Operating Officer, City of Hartford  
Roger J. O'Brien, Director of Planning, City of Hartford  
Crown Castle USA, Inc.



EM-T-MOBILE-064-090306

March 5, 2009  
ORIGINAL

RECEIVED  
MAR - 6 2009

CONNECTICUT  
SITING COUNCIL

Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051  
Attn: Mr. S. Derek Phelps, Executive Director

Re: Omnipoint Communications, Inc. – exempt modification  
92 Weston Street, Hartford, Connecticut

Dear Mr. Phelps:

This letter and attachments are submitted on behalf of Omnipoint Communications, Inc. (also referred to herein as “T-Mobile”). T-Mobile is enhancing the capabilities of its wireless system in Connecticut by implementing UMTS technology. In order to do so, T-Mobile will modify antenna and equipment configurations at a number of its existing 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 Mayor of Hartford.

T-Mobile plans to modify the existing Crown facility at 92 Weston Street, Hartford (coordinates 41°47'12.2” N, -72°39'25.78” W). Attached are a compound plan and elevation depicting the planned changes, and documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration. Also included is a power density calculation reflecting the modification to T-Mobile’s operations at the site.

The changes to the 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. 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. Both T-Mobile’s existing and proposed antennas will be located at an approximate center line of 81’ AGL on the approximately 110’ tower. T-Mobile’s seven existing panel antennas and associated TMAs will be replaced with six new panel antennas and six associated TMAs. The proposed modifications will not extend the height of the tower.

2. The proposed changes will not extend the site boundaries. T-Mobile currently has three cabinets at the site. Two will be replaced with one cabinet on the existing concrete pad at the base of the tower, with two cabinets remaining. Thus, there will be no effect on the site compound.
3. The proposed changes will noise level at the existing facility by six decibels or more. The incremental effect of the proposed changes will be negligible.
4. The changes to the facility 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. As indicated on the attached power density calculation, T-Mobile's operations at the site will result in a power density of 18.7059%; the combined site operations will result in a total power density of 36.2259%.

Please feel free to call me at (860) 798-7454 with questions concerning this matter.  
Thank you for your consideration.

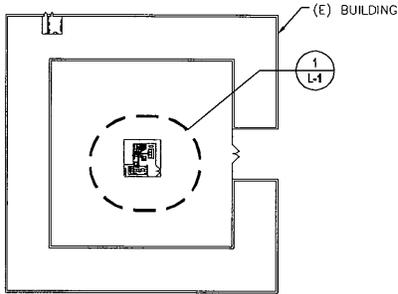
Respectfully yours,



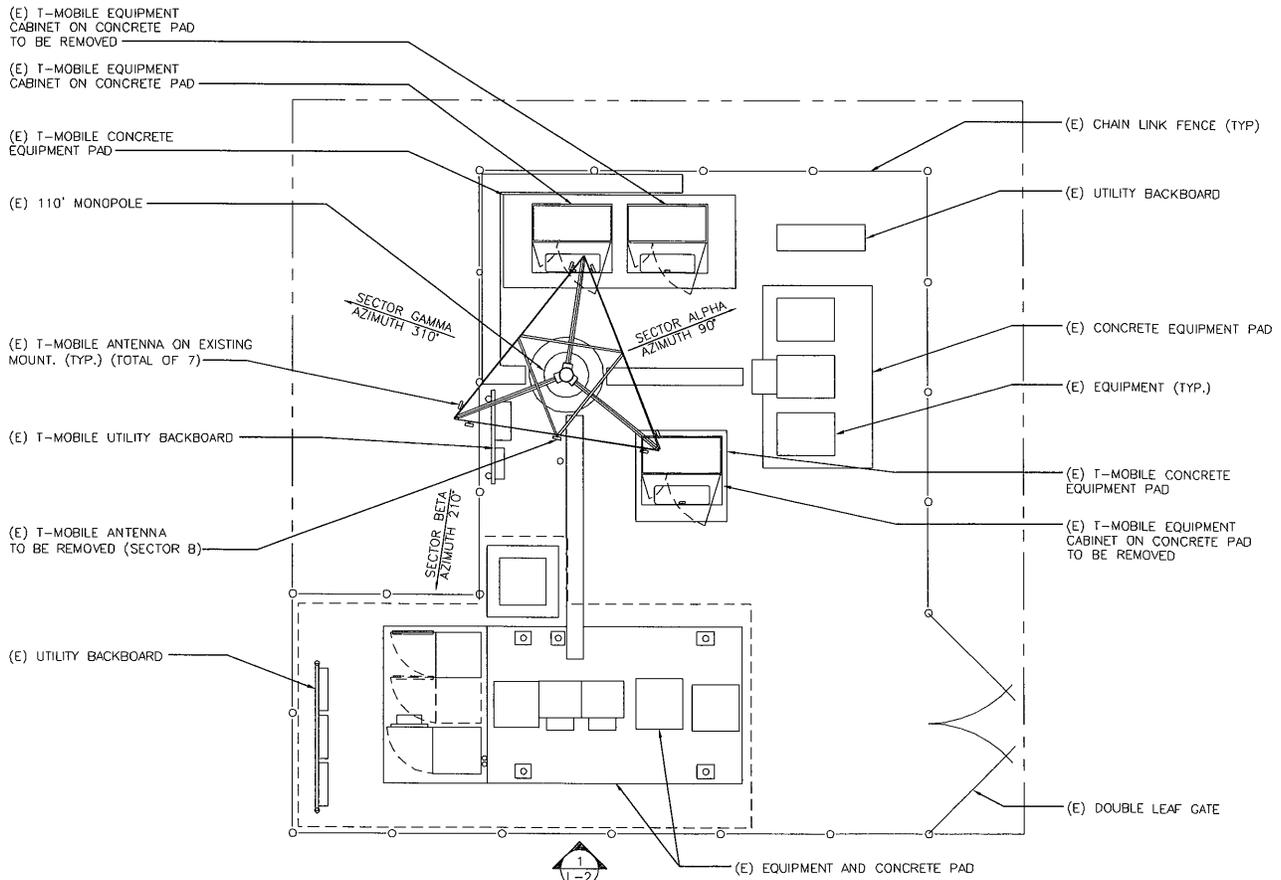
Jennifer Young Gaudet

cc: Honorable Eddie Perez, Mayor, City of Hartford  
Albemarle Weston Street LLC (underlying property owner)

Attachments



**KEY PLAN**  
SCALE: N.T.S.

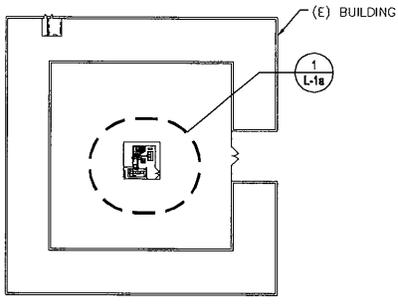


**1 EXISTING CONDITIONS COMPOUND PLAN**  
SCALE: 1" = 10'-0"

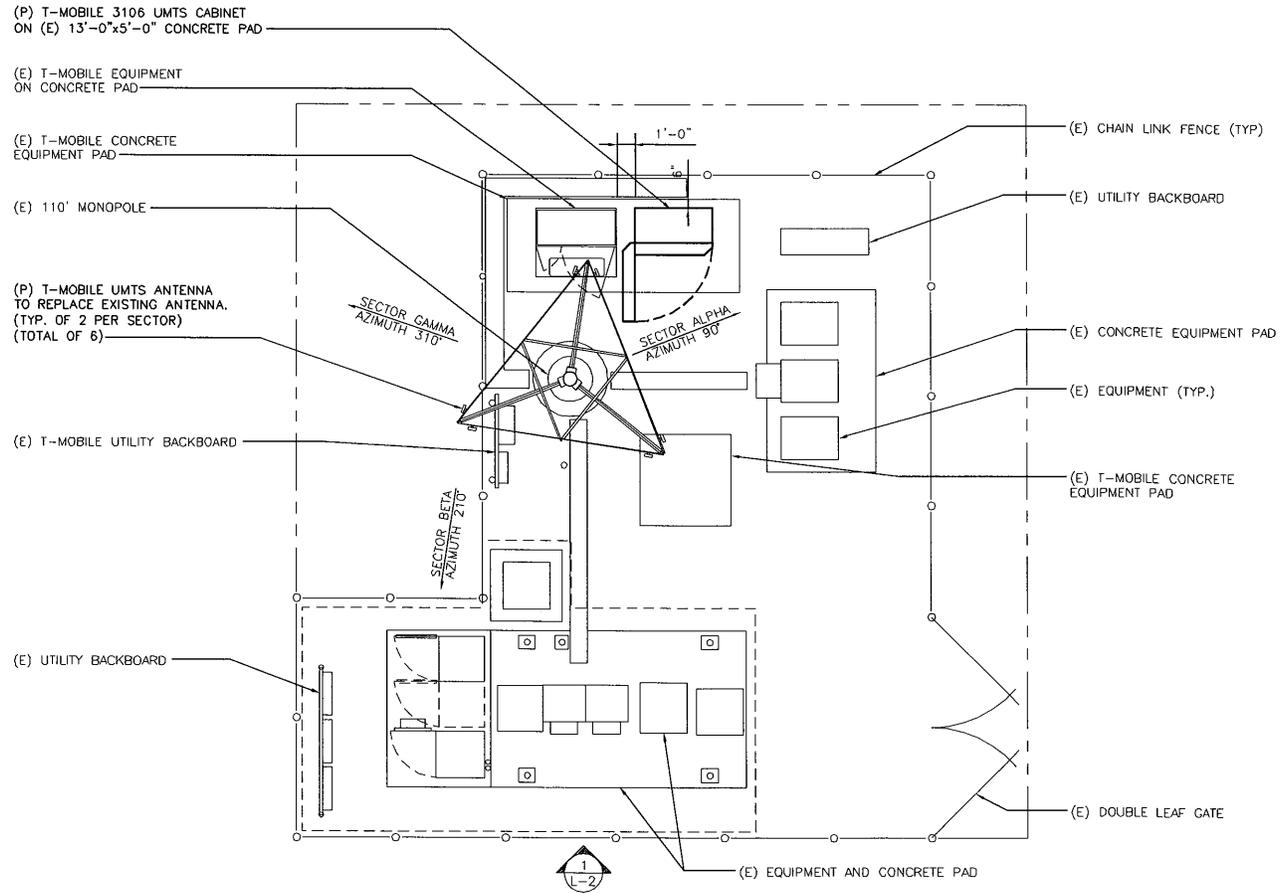


CT11062B

SITE ID NO: 36917312 Designed by: MJE Drawn by: PD Checked by: ICA Approved by:	<b>URS CORPORATION AES</b> 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT 1-(860)-529-8882	<b>HPC DEVELOPMENT LLC</b> 53 LAKE AVENUE EXT. DANBURY, CONNECTICUT 06811 FOR <b>OmniPoint dba T-Mobile USA</b> 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CONNECTICUT 06002	<b>WINDSOR/I-91/X35</b> 92 WESTON STREET HARTFORD, CONNECTICUT 06106	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">REV.</td> <td style="font-size: small;">DATE</td> <td style="font-size: small;">DESCRIPTION</td> </tr> <tr> <td>V5</td> <td>03-05-09</td> <td>FINAL</td> </tr> <tr> <td>V4</td> <td>03-04-09</td> <td>FINAL</td> </tr> </table> <p style="font-size: x-small;">Scale: AS NOTED    Date: 11/20/08</p> <p style="font-size: x-small;">Job No. HPC 002    File No. L-1    Dwg. 1 of 2</p>	REV.	DATE	DESCRIPTION	V5	03-05-09	FINAL	V4	03-04-09	FINAL	Dwg. No.  <b>L-1</b>
REV.	DATE	DESCRIPTION												
V5	03-05-09	FINAL												
V4	03-04-09	FINAL												



**KEY PLAN**  
SCALE: N.T.S.



**1**  
L-1a  
**PROPOSED COMPOUND PLAN**  
SCALE: 1" = 10'-0"



CT11062B

SITE ID NO:  
36917312  
Designed by:  
MJE  
Drawn by:  
PD  
Checked by:  
ICA  
Approved by:

**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(860)-529-8882

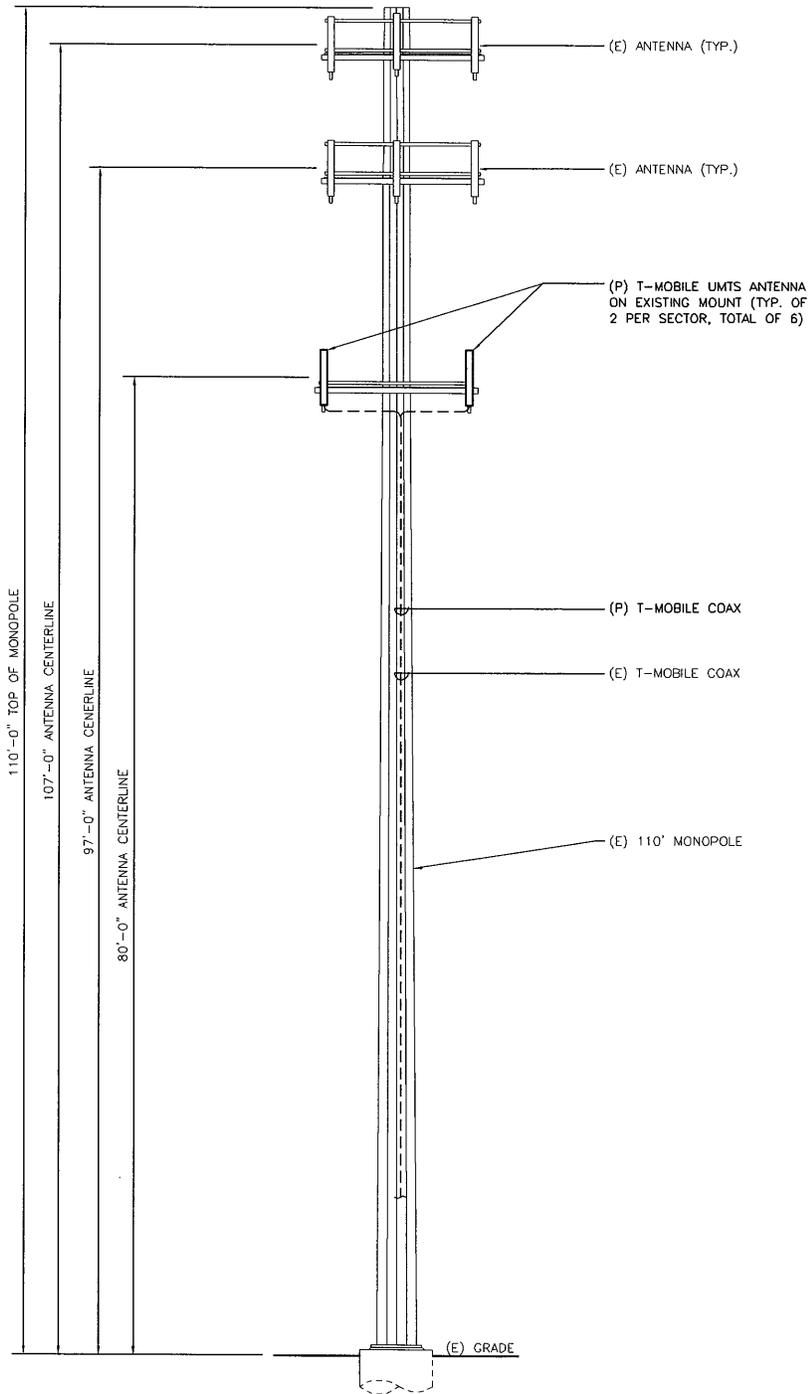
HPC DEVELOPMENT LLC FOR Omnipoint dba T-Mobile USA  
53 LAKE AVENUE EXT. DANBURY, CONNECTICUT 06811 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CONNECTICUT 06002

SITE ADDRESS:  
**WINDSOR/I-91/X35**  
92 WESTON STREET  
HARTFORD, CONNECTICUT 06106

REV.	DATE	DESCRIPTION
V5	03-05-09	FINAL
V4	03-04-09	FINAL

Dwg. No.  
**L-1a**

Scale: AS NOTED Date: 11/20/08  
Job No. HPC 002 File No. L-1 Dwg. 1 of 2



1 MONOPOLE ELEVATION  
 L-2 SCALE: 1" = 15'-0"



CT11062B

SITE ID NO:  
36917312

Designed by:  
MJE

Drawn by:  
PD

Checked by:  
ICA

Approved by:

**URS CORPORATION AES**

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

HPC DEVELOPMENT LLC  
 53 LAKE AVENUE EXT.  
 DANBURY, CONNECTICUT 06811

FOR  
 Omnipoint dba  
 T-Mobile USA  
 35 GRIFFIN ROAD SOUTH  
 BLOOMFIELD, CONNECTICUT 06002

SITE  
 ADDRESS:

WINDSOR/I-91/X35  
 92 WESTON STREET  
 HARTFORD, CONNECTICUT 06106

REV.	DATE	DESCRIPTION
V5	03-05-09	FINAL
V4	03-04-09	FINAL

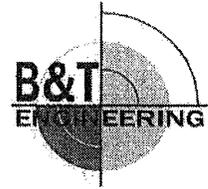
Scale: AS NOTED Date: 11/20/08

Job No. HPC 002 File No. L-2

Dwg. No.

L-2

Dwg. 2 of 2



Date: **January 13, 2009**

Mr. John J. Eigenbrode  
Crown Castle USA Inc.  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277  
(704) 405-6616

B&T Engineering, Inc.  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
(918) 587-4630  
ctuttle@btengineering.com

**Subject: Structural Analysis Report**

**Carrier Designation:** T-Mobile Co-Locate  
**Carrier Site Number:** CT11062B  
**Carrier Site Name:** Windsor/I-91/X35

**Crown Castle Designation:** Crown Castle BU Number: 876325  
Crown Castle Site Name: Weston Square  
Crown Castle JDE Job Number: 112524  
Crown Castle Work Order Number: 248612

**Engineering Firm Designation:** B&T Engineering Project Number: 79760

**Site Data:** 92 Weston Street, Hartford, CT, Hartford County  
Latitude 41°-47'-12.3", Longitude -72°-39'-44.4"  
110 Foot – Monopole Tower

Dear Mr. Eigenbrode,

B&T Engineering is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the aforementioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 316620, in accordance with Application 71482, Revision 6.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC1: Existing + Reserved + Proposed Equipment  
Note: See Table 1 and Table 2 for the proposed and existing/reserved loading.

**Sufficient Capacity**

The analysis has been performed in accordance with the TIA/EIA-222-F standard and the State Building Code w/ 2005 CT supplement based upon a wind speed of 80 mph fastest mile.

All equipment proposed in this report shall be installed in accordance with the attached drawings for the determined available structural capacity to be effective.

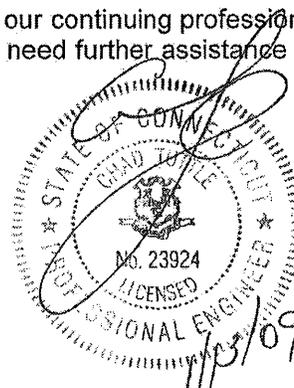
We at B&T Engineering appreciate the opportunity of providing our continuing professional services to you and Crown Castle USA, Inc. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Jerod Dotson  
Project Engineer

Chad E. Tuttle, P.E.  
President

ENG-FRM-10034, Rev - (3/22/06)



## TABLE OF CONTENTS

### 1) INTRODUCTION

### 2) ANALYSIS CRITERIA

Table 1 – Proposed Antenna and Cable Information

Table 2 – Existing and Reserved Antenna and Cable Information

Table 3 – Design Antenna and Cable Information

### 3) ANALYSIS PROCEDURE

Table 4 – Documents Provided

3.1) Analysis Method

3.2) Assumptions

### 4) ANALYSIS RESULTS

Table 5 – Tower Component Stresses vs. Capacity

4.1) Recommendations

### 5) APPENDIX A

RISA Tower Output

### 6) APPENDIX B

Base Level Drawing

### 7) APPENDIX C

Additional Calculations

## 1) INTRODUCTION

The subject structure is a 110 foot stepped monopole manufactured in 1996 by Rohn. Modifications were proposed by B&T Engineering in December of 2008. Those modifications are incorporated in this analysis.

## 2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 80 mph with no ice, 69.3 mph with 0.5 inch ice thickness and 50 mph under service loads.

**Table 1 - Proposed Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
80	81	6	andrew	E15S09P94	6	7/8	4
		6	celwave	APX16DWW-16DWW-S-E-ACU	2	1 1/4	

**Table 2 - Existing and Reserved Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
107	108	9 (MLA)	MLA Panel	6'x1'x6" Panel	9	1 5/8	3
		2	andrew	UMWD-06517-XDH	6	1 1/4	1,3
		2	decibel	DB950G40E-M			
	107	1	--	Platform With Rails	--	--	1,3
89	90	6	powerwave	7750.00	3	1 5/8	2
		6	powerwave	LGP21401			
		6	powerwave	LGP21903			
	89	1	--	Platform With Rails	9	1 5/8	1
80	81	5 (SLA)	allgon	7250.01	14	1 1/4	4
		2 (SLA)	ems wireless	RR90-17-02DP			
		5	allgon	7250.02	--	--	5
		2	ems wireless	RR90-17-02DP			
	80	1	--	Low Profile Platform	14	1 1/4	1,4

Notes:

- 1) Existing Equipment
- 2) Reserved Equipment
- 3) MLA Equipment Controlling
- 4) Existing and Proposed Equipment Controlling
- 5) Equipment to be Removed

**Table 3 - Design Antenna and Cable Information**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
110	110	12	Swedcom	ALP9212	12	1 5/8
		1	--	Platform		
92	92	1	--	Platform	12	1 5/8
		12	Swedcom	ALP9212		

**4) ANALYSIS RESULTS**

**Table 5 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	110 - 90	Pole	P24x1/4	1	-3.579	589.190	26.2	Pass
L2	90 - 60	Pole	P24x3/8	2	-11.345	934.940	72.0	Pass
L3	60 - 30	Pole	P30x3/8	3	-16.176	1166.570	99.2	Pass
L4	30 - 10.5	Pole	P30x1/2	4	-20.142	1556.584	91.9	Pass
L5	10.5 - 0	Pole	P30x1/2w/(3)MP3-05	5	-22.701	1974.093	84.0	Pass
							Summary	
						Pole (L3)	99.2	Pass
						Rating =	<b>99.2</b>	<b>Pass</b>

**Table 6 - Tower Component Stresses vs. Capacity - LC1**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	Base	92.1	Pass
1	Base Plate	Base	67.6	Pass
1	Base Foundation	Base	88.4	Pass
1	Flange Connection	30	74.4	Pass
1	Flange Connection	60	37.5	Pass
1	Flange Connection	90	12.9	Pass

<b>Structure Rating (max from all components) =</b>	<b>99.2 %</b>
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Foundation capacity determined by comparing analysis reactions to original design reactions.

**4.1) Recommendations**

N/A

### 3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
Tower Manufacturer Drawings	Rohn	Crown Doc ID# 1615400	Crown OTG
Tower Modification Drawings	B&T Engineering	Date: 12/08/08	On File
Foundation Drawings	Rohn	Crown Doc ID# 1615433	Crown OTG
Geotech Report	FDH Engineering	Crown Doc ID# 2192540	Crown OTG
Antenna Configuration	Crown CAD Package	Date: 11/06/08	Crown OTG

#### 3.1) Analysis Method

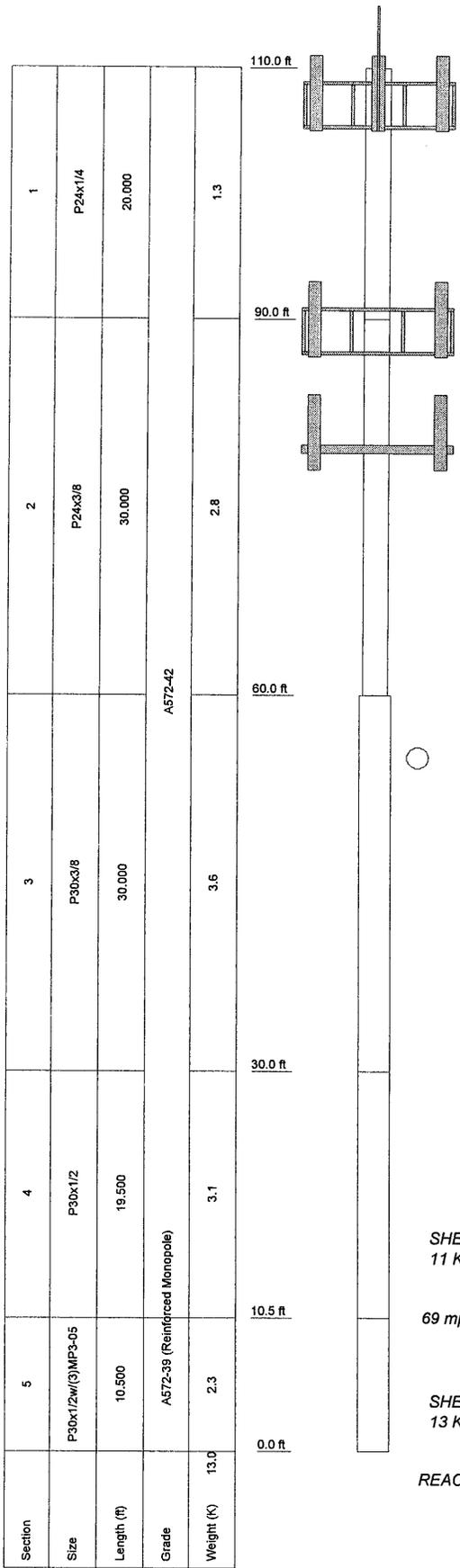
RISA Tower (version 5.3.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind, and ice load cases. All loads were computed in accordance with the TIA/EIA-222-F or the local building code requirements. Selected output from the analysis is included in Appendix A.

#### 3.2) Assumptions

1. This structural analysis **does not** include a grouted base plate.
2. Tower and structures were built in accordance with the manufacturer's specifications.
3. The tower and structures have been maintained in accordance with manufacturer's specifications.
4. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
5. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222-F.

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

**APPENDIX A**  
**RISA TOWER OUTPUT**



Section	Size	Length (ft)	Grade	Weight (K)
1	P24x1/4	20.000	A572-42	1.3
2	P24x3/8	30.000	A572-42	2.8
3	P30x3/8	30.000	A572-42	3.6
4	P30x1/2	19.500	A572-39 (Reinforced Monopole)	3.1
5	P30x1/2w/(3)MP3-05	10.500	A572-39 (Reinforced Monopole)	2.3
				13.0

**DESIGNED APPURTENANCE LOADING**

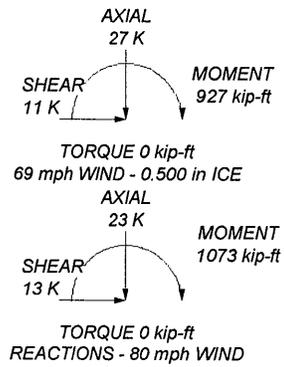
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod (E)	110	(2) LGP21903 (R)	90
(3) MLA Antenna (6'x1x6" Panel) (MLA)	108	Platform With Rails (E)	89
(3) MLA Antenna (6'x1x6" Panel) (MLA)	108	(2) E15S09P94 (P)	81
(3) MLA Antenna (6'x1x6" Panel) (MLA)	108	(2) E15S09P94 (P)	81
(3) MLA Antenna (6'x1x6" Panel) (MLA)	108	(2) E15S09P94 (P)	81
Platform With Rails (E)	107	APX16DWW-16DWW-S-E-ACU (P)	
(2) 7750.00 (R)	90	(2) APX16DWW-16DWW-S-E-ACU (P)	81
(2) 7750.00 (R)	90	(2) APX16DWW-16DWW-S-E-ACU (P)	81
(2) 7750.00 (R)	90	(2) APX16DWW-16DWW-S-E-ACU (P)	81
(2) LGP21401 (R)	90	APX16DWW-16DWW-S-E-ACU (P)	81
(2) LGP21401 (R)	90	Low Profile Platform (E)	80
(2) LGP21903 (R)	90		
(2) LGP21903 (R)	90		

**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-42	42 ksi	60 ksi	A572-39 (Reinforced Monopole)	39 ksi	60 ksi

**TOWER DESIGN NOTES**

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 69 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 99.2%



<p><b>B &amp; T Engineering, Inc.</b> 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job: <b>79760 - Weston Square, CT (BU# 876325)</b>
	Project: <b>110' Rohn Stepped Monopole / App ID: 71482; Rev: 6</b>
	Client: <b>Crown Castle USA, Inc.</b> Drawn by: <b>JDotson</b> App'd:
	Code: <b>TIA/EIA-222-F</b> Date: <b>01/13/09</b> Scale: <b>NTS</b>
	Path: _____      Dwg No. <b>E-1</b>

## Technical Memo

To: HPC  
From: Farid Marbough - Radio Frequency Engineer  
cc: Jason Overbey  
Subject: Power Density Report for CT11062B  
Date: February 13, 2009

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### 1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS antenna installation on a Monopole at 92 Weston Street, Hartford, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

### 2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from T-Mobile transmitters are in the (1935-1944.8), (2140-2145), (2110-2120)MHz frequency Band.
- 2) The antenna array consists of three sectors, with 2 antennas per sector.
- 3) The model number for GSM antenna is APX16DWV-16DWV.
- 3) The model number for UMTS antenna is APXV18-206516S.
- 4) GSM antenna center line height is 81 ft.
- 4) UMTS antenna center line height is 81 ft.
- 5) The maximum transmit power from any GSM sector is 2314.2 Watts Effective Radiated Power (EiRP) assuming 8 channels per sector.
- 5) The maximum transmit power from any UMTS sector is 2481.82 Watts Effective Radiated Power (EiRP) assuming 2 channels per sector.
- 6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

### 3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Monopole at 92 Weston Street, Hartford, CT, is 0.18706 mW/cm<sup>2</sup>. This value represents 18.706% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm<sup>2</sup>) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area. The combined Power Density from other carriers is 17.52%. The combined Power Density for the site is 36.226% of the M.P.E. standard.

## Connecticut Market



### Worst Case Power Density

**Site:** CT11062B  
**Site Address:** 92 Weston Street  
**Town:** Hartford  
**Tower Height:** 110 ft.  
**Tower Style:** Monopole

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	8	Number of channels	2
Antenna Model	APX16DWW-16DWW	Antenna Model	APXV18-206516S
Cable Size	7/8 in.	Cable Size	7/8 in.
Cable Length	102 ft.	Cable Length	102 ft.
Antenna Height	81.0 ft.	Antenna Height	81.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	18.0 dBi	Antenna Gain	17.6 dBi
Cable Loss per foot	0.0186 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	1.8972 dB	Total Cable Loss	1.1832 dB
Total Attenuation	6.3972 dB	Total Attenuation	2.6832 dB
Total EIRP per Channel (In Watts)	54.61 dBm 289.27 W	Total EIRP per Channel (In Watts)	60.94 dBm 1240.91 W
Total EIRP per Sector (In Watts)	63.64 dBm 2314.20 W	Total EIRP per Sector (In Watts)	63.95 dBm 2481.82 W
nsg	11.6028	nsg	14.9168
Power Density (S) = 0.090261 mW/cm <sup>2</sup>		Power Density (S) = 0.096798 mW/cm <sup>2</sup>	
T-Mobile Worst Case % MPE =		18.7059%	

Equation Used :

$$S = \frac{(1000)(grf)^2(Power)10^{(nsg/10)}}{4\pi(R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

### Co-Location Total

Carrier	% of Standard
Verizon	
Cingular	5.9500 %
Sprint	11.5700 %
AT&T Wireless	
Nextel	
Pocket	
Other Antenna Systems	
<b>Total Excluding T-Mobile</b>	<b>17.5200 %</b>
T-Mobile	18.7059
<b>Total % MPE for Site</b>	<b>36.2259%</b>



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](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

March 10, 2009

The Honorable Eddie A. Perez  
Mayor  
City of Hartford  
Municipal Building  
550 Main Street  
Hartford, CT 06103

RE: **EM-T-MOBILE-064-090306** - Omnipoint Communications, as subsidiary of T-Mobile USA, Inc., notice of intent to modify an existing telecommunications facility located at 92 Weston Street, Hartford, Connecticut.

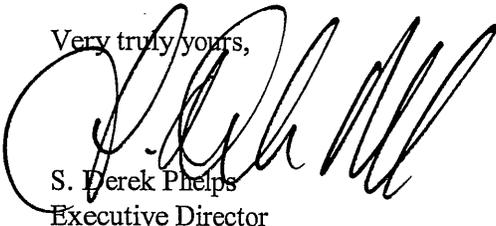
Dear Mayor Perez:

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 24, 2009.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps  
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Roger J. O'Brien, Director of Planning, City of Hartford  
Lee C. Erdmann, Chief Operating Officer, City of Hartford