



T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

Connecticut Market

May 29, 2019

Honorable Robert Stein, Chairman, and
members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: T-MOBILE Northeast LLC notice of intent to install a temporary cellular telephone facility located at 21 Pleasant Street Middletown, Connecticut

Dear Ms. Bachman:

TRM is pleased to submit this Notice of Exempt Modification on behalf of T-MOBILE Northeast LLC

T-MOBILE Northeast LLC hereby notifies the Connecticut Siting Council of its intent for the temporary use of telecommunications equipment by placing a Cell On Light Truck (COLT) in the parking lot at 21 Pleasant Street owned by Middlesex Health Resources. Please accept this Notice to the Connecticut Siting Council, Pursuant to RSCA Section 16-50j-73, of construction that constitutes an exempt modification under RSCA Section 16-50j-72 (d). In compliance with RSCA Section 16-50j-73, a copy of this Exempt Modification is being sent to Middletown Mayor Daniel T. Drew and Middletown Planning and Zoning Chair Stephen Devoto as well as the property owner.

The proposed temporary cell site meets the criteria set forth in RSCA 16-50j-72(d) for temporary cellular service for events of statewide significance. The site is necessary to provide additional system capacity to accommodate the increased communication needs during the Middletown Pride Parade.

The Pride Parade is June 15th and T-Mobile will need to do testing beforehand to make sure the site is up and running before then.

Proposed Temporary Facility

The temporary site will be located at 21 Pleasant Street Middletown, CT 06023 owned by Middlesex Hralth Resources. (See attached location map) Coordinates for the location are N 41.555916, W-72.68155. A 15kw diesel generator will be used for power and the proposed temporary cell site will not increase the noise level by six decibels or more.

The proposal for the temporary equipment installation is June 12, 2019 and the site will be taken down and recommissioned on June 17, 2019.

T-Mobile's temporary cell site will consist of a "Cell On Light Truck" ("COLT") (See attached photo) which needs a 30' x 25' footprint, contains three indoor RBS6201's and PBC6200 with battery backup, a backup generator, dual masts and can support 5 sector multi-beam antennas.

Power Density Calculations

T-Mobile's temporary cell site will not result in a total radio frequency electromagnetic radiation power density, measured at ground level at the COLT location, at or above State or Federal standards. The following table shows the power density at the site from the proposed temporary cellular transmissions form the COLT:

<u>T-Mobile Sector</u>	<u>Power Density Value (%)</u>
Sector A:	68.21 %
Sector B:	68.21 %
Sector C:	68.21 %
Sector D:	68.21 %
Sector E:	68.21 %

T-Mobile per Sector Maximum: 68.21 %

Site Total: 68.21 %

Site Compliance Status: COMPLIANT

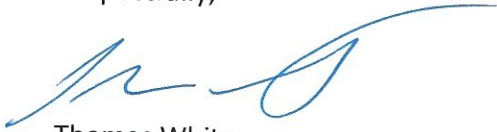
See attached full report

Conclusion

For the reasons above, we respectfully request the Council acknowledge T-Mobile's Notice of Exempt Modification for the temporary cell site to be operated during Xfinity Theater Concert series pursuant to RCSA Section 16-50j-72(d).

Please call me with any questions concerning this Notice at 203-417-4446. Thank you.

Respectfully,

A handwritten signature in blue ink, appearing to be 'T. White', with a long, sweeping horizontal line extending to the right.

Thomas White
Agent of T-Mobile

Cc: Middletown Mayor Daniel T.Drew
Planning and Zoning Chair Stephen Devoto
Middlesex Health Resources, Owner



OFFICE OF THE MAYOR
City of Middletown
CONNECTICUT 06457

Daniel T. Drew
MAYOR

VIA U.S. MAIL

May 30, 2019

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

Dear Ms. Bachman:

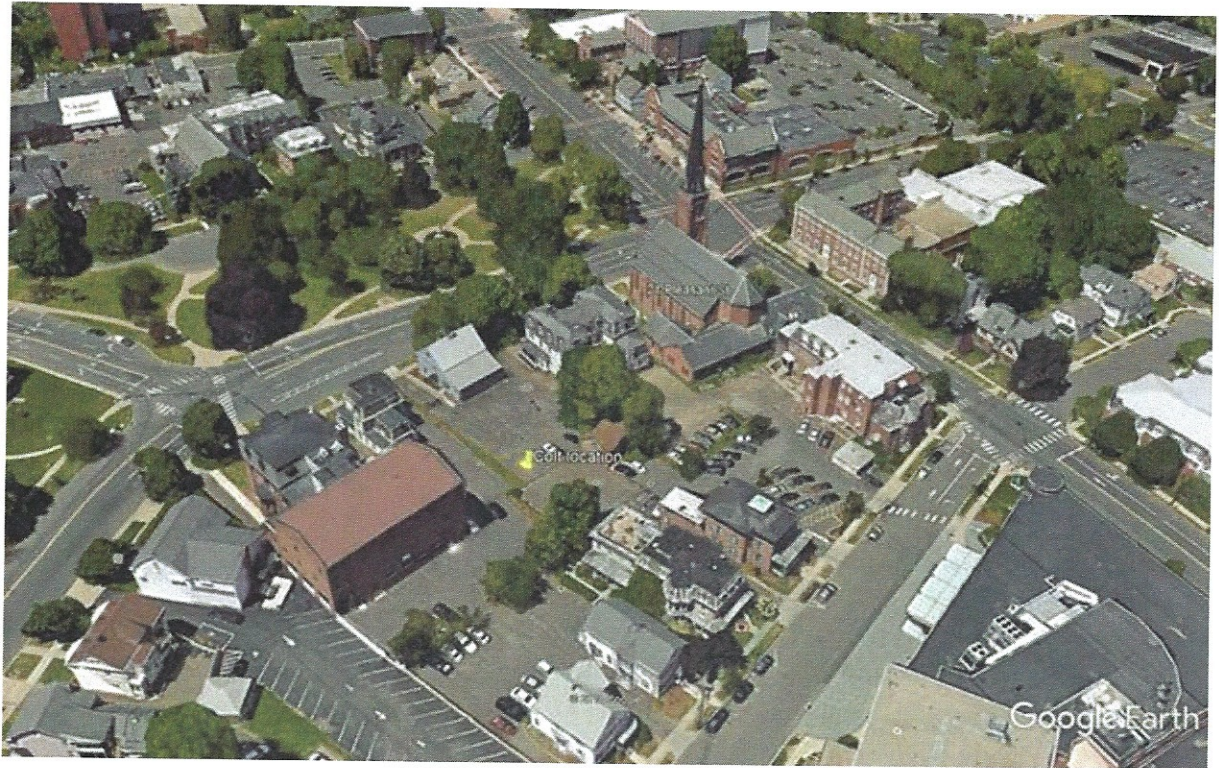
I am writing to advise that the City of Middletown is fully supportive of the proposed mobile services that T-Mobile plans to employ on June 15, 2019, on property located at 21 Pleasant Street, Middletown, Connecticut, to enhance their network for the day of Middletown's first ever Pride event—Middletown Pride. This will ensure that participants have mobile service during the event. Thank you for taking the time to review this proposal.

Respectfully submitted,

A handwritten signature in blue ink, appearing to be "D. Drew", is written over a horizontal line. The signature is stylized and cursive.

Daniel T. Drew, Mayor

COLT Location



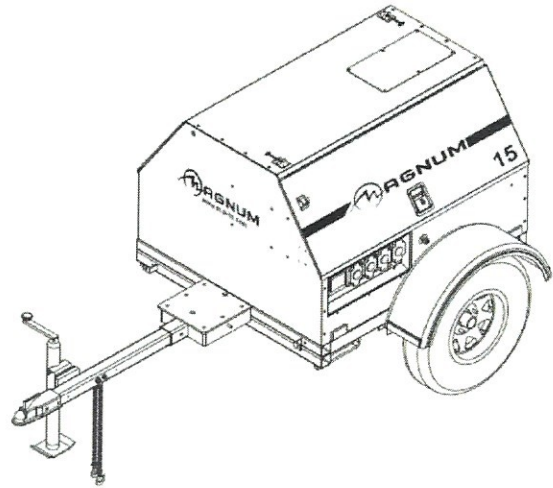
COLT



Magnum Mobile Lite Generator – MLG15 Specifications

ENGINE

- Mitsubishi® S4L2-Y461ML - naturally aspirated, diesel engine ◦ Prime - 22.3 hp @ 1800 rpm ◦ 4 cylinder ◦ 1.8 L displacement ◦ Interim Tier IV approved
- Polyethylene fuel tank ◦ 56 gal. capacity ◦ 43 hr. run time – full load ◦ 3 ½" fill port
- Fuel consumption at prime:
 - 100% - 1.30 gph (4.92 Lph) ◦ 75% - 0.98 gph (3.71 Lph) ◦ 50% - 0.65 gph (2.46 Lph)
- Cooling system capable of operating at 120°F ambient
- Rubber vibration dampers isolate engine/generator from frame
- Full flow oil filter, spin on type
- Fuel filter with replaceable element
- Dry type cartridge air filter
- 60 Hz engine/generator



ENGINE CONTROLS

- Engraved aluminum punched and anodized control panel
- Four position keyed switch – glow plugs (preheat, off, run, start)
- Hour meter
- Automatic low oil/high temperature shutdown system

GENERATOR

- Marathon Electric® ◦ Brushless ◦ 4 pole ◦ Class H insulation
- Single phase output ◦ Prime - 13 kW / 13 kVA (54A @ 240V) ◦ Standby - 14 kW / 14 kVA (58A @ 240V)
- Voltage regulation +/- 1% with Marathon SE350 Voltage Regulator

MLG15 Specifications Continued:

ELECTRICAL SYSTEM AND CONTROLS

- 70A start limit breaker (assures no load condition exists before starting)
- Convenience receptacles with individual breakers
 - (2) 120V 20 Amp GFCI duplex outlets (Nema 5-20R type)
 - (2) 240V 30 Amp twistlock outlets (Nema L6-30R type)
 - (2) 240V 50 Amp twistlock outlets (Non-Nema 6369)
- 440 CCA wet cell battery

ENCLOSURE

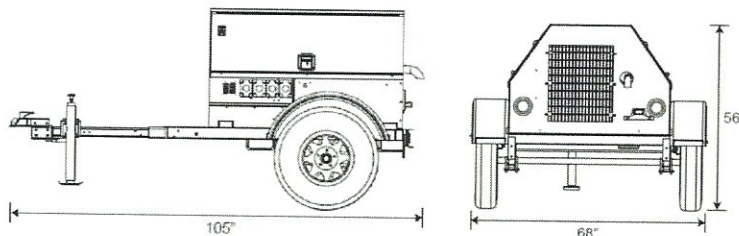
- Steel, 14-gauge, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
 - 70 dB(A) at 23 feet – prime power
- Fully lockable enclosure
- Stainless steel hinges, door latches and exterior hardware
- Emergency stop switch located on front panel
- License plate holder with light
- Multi-lingual operating/safety decals
- Document holder with operating/parts manuals including AC/DC wiring diagrams

TRAILER

- DOT approved tail, side, brake, and directional lights
 - Recessed rear lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- Single wall polyethylene fenders
- 2" ball hitch
- 2200 lb. leaf spring axle
- 2000 lb. tongue jack with footplate
- ST205/75R15 tubeless tires – 6 ply
- 48" track width

WEIGHTS & DIMENSIONS

- Dry weight: 1425 lbs (646 kg)
- Operating weight: 1823 lbs (827 kg)
- 105 x 68 x 56 in
(2.67 x 1.73 x 1.42 m)



WARRANTY

- Engine and generator covered under OEM warranty – consult factory for details

CERTIFICATIONS

- CSA certified



MLG15 Specifications Continued:

MLG15 Options

ENGINE OPTIONS

- ◆ Heated fuel filter
- ◆ Lower radiator hose – engine heater
- ◆ Oil drain valve kit

ELECTRICAL CONTROLS OPTIONS

- ◆ 720 CCA gel cell battery
- ◆ 720 CCA wet cell battery
- ◆ 685 CCA gel cell battery
- ◆ Battery disconnect
- ◆ Battery charger – 2A trickle

VOLTAGE OUTPUT OPTIONS

- ◆ Alternative receptacle panel – consult factory for configurations

COOLANT OPTIONS

- ◆ 60/40 Coolant – cold weather applications

ENCLOSURE OPTIONS

- ◆ Interior cabinet light
- ◆ Level indicator
- ◆ Tamper pack
- ◆ Liquid containment / Quiet pack
- ◆ Lift structure

FUEL TANK OPTIONS

- ◆ 56 gal. fuel tank
- ◆ Tethered fuel tank cap

TRAILER OPTIONS

- ◆ 6 pin or 7 spade electrical connectors
- ◆ Outrigger package
- ◆ Tube and sleeve jack
- ◆ Spare tire/wheel kit

HITCH OPTIONS

- ◆ 2.5" lunette ring
- ◆ 3" lunette ring
- ◆ 3" HD lunette ring



- ◆ 2 5/16" ball
- ◆ Combination hitch – 2.5" lunette ring / 2" ball

05/09





City Of Middletown

About Us

Property Search

Basic Advanced Graphics

Enter terms and press 'Search'. Select a row to zoom to a parcel. For more information about the parcel, click the parcel on the map. Queries are limited to 1000 features. Please disable your pop-up blocker to download reports.

21 pleasant Search Clear

Excel Labels:5160.(PDF) Labels:5193.(PDF)

Owner Name Location

MIDDLESEX HEALTH
RESOURCES INC 21 PLEASANT ST

Buffer

Base Maps

Print

Legend

Annotation Tools

PRIME Developed by PRIME AE

21 PLEASANT ST	MIDDLETOWN, CT 06457	Primary
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Owner of Record

Owner	MIDDLESEX HEALTH RESOURCES INC	Sale Price	\$0
Co-Owner	% VP FINANCE	Certificate	
Address	28 CRESCENT ST MIDDLETOWN, CT 06457	Book & Page	1136/ 739
		Sale Date	09/04/1997
		Instrument	29

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
MIDDLESEX HEALTH RESOURCES INC	\$0		1136/ 739	29	09/04/1997

Building Information

Building 1 : Section 1

Year Built:	1721
Living Area:	3,000
Replacement Cost:	\$268,802
Building Percent	65
Good:	
Replacement Cost	
Less Depreciation:	\$174,720

Building Attributes	
Field	Description
STYLE	Office/Retail Conv

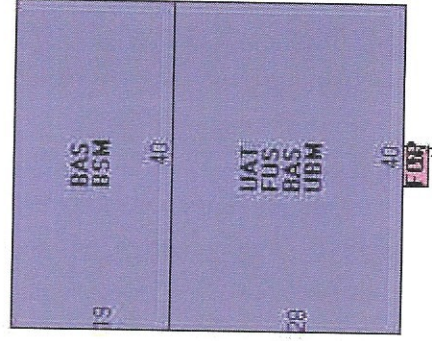
MODEL	Commercial
Grade	B-
Stories	2.25
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	Below Average
Roof Structure	Gable
Roof Cover	Arch. Shingles
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	Central
Bldg Use	Commercial Improv
Cov Parking	0
Uncov Parking	0
Percent Fin	0
1st Floor Use	
Heat/AC	Heat/AC Split
Frame Type	Wood Frame
Baths/Plumbing	Average
Ceiling/Walls	Ceil & Wall
Rooms/Prtns	Average

Building Photo



(<http://images.vgsi.com/photos/MiddletownCTPhotos//\00\02\74>)

Building Layout



(<http://images.vgsi.com/photos/MiddletownCTPhotos//Sketches/i>)

Building Sub-Areas (sq ft)

Legend

Wall Height	8
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Code	Description	Gross Area	Living Area
BAS	First Floor	1,880	1,880
FUS	Finished Upper Story	1,120	1,120
BSM	Basement	760	0
FOP	Framed Open Porch	15	0
UAT	Unfinished Attic	1,120	0
UBM	Basement	1,120	0
		6,015	3,000

Extra Features

Extra Features				Legend	
Code	Description	Size	Value	Bldg #	
FPL1	Fireplace - 1 Op	1 UNITS	\$4,230		1

Land

Land Use

Use Code 201
Description Commercial Improv
Zone MX
Neighborhood 3150
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 0.27
Assessed Value \$122,850
Appraised Value \$175,500

Outbuildings

Outbuildings						Legend	
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #	
PAV1	Paving	AS	Asphalt	6510 UNITS	\$7,320	1	

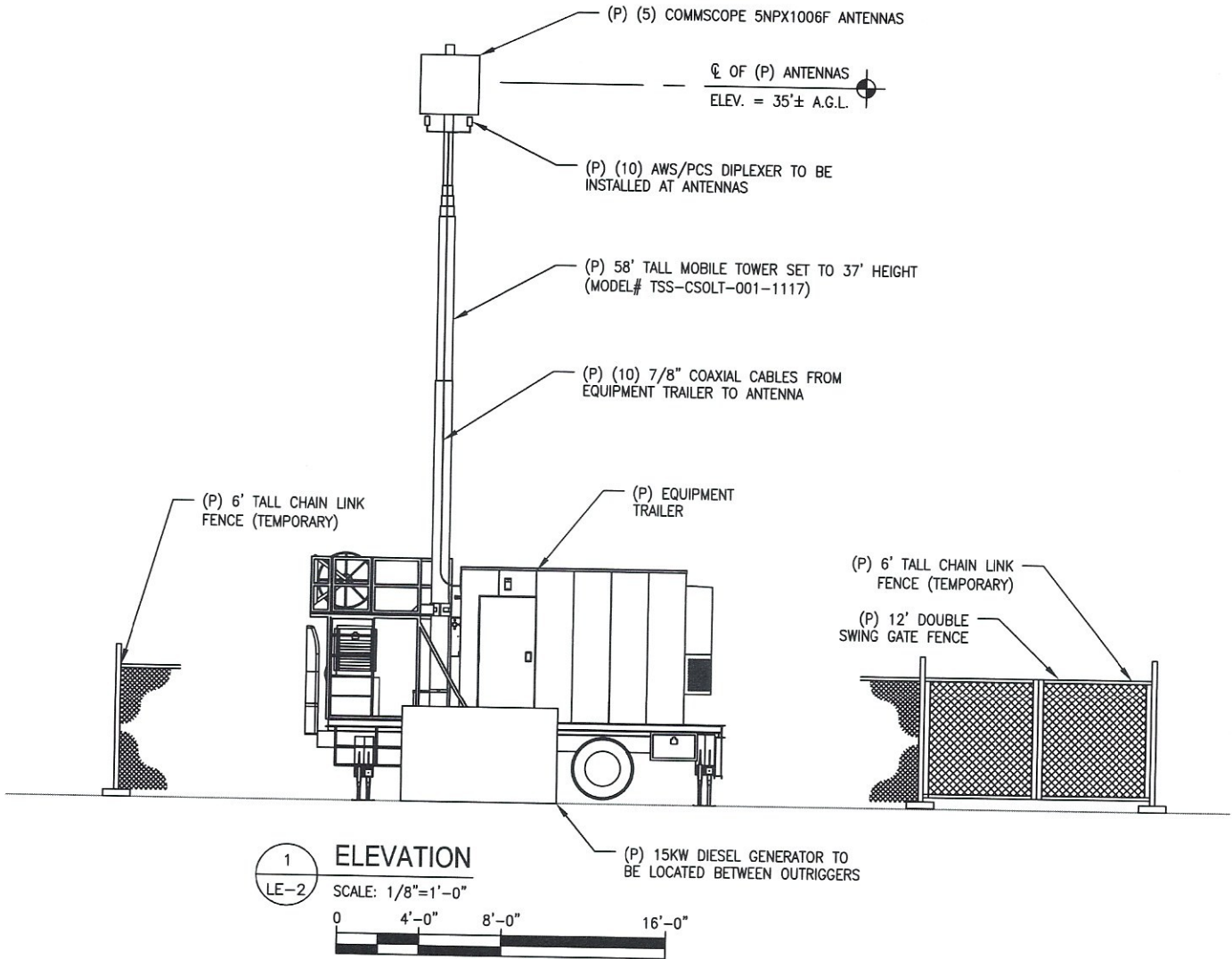
Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$186,270	\$175,500	\$361,770
2016	\$163,610	\$175,500	\$339,110
2015	\$163,610	\$175,500	\$339,110

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$130,380	\$122,850	\$253,230
2016	\$114,540	\$122,850	\$237,390
2015	\$114,540	\$122,850	\$237,390

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NOTE:
 ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY T-MOBILE NORTHEAST, LLC STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.



EG ADVANCED
 ENGINEERING GROUP, P.C.
 Civil Engineering - Site Development - Surveying - Telecommunications
 500 NORTH BROADWAY
 EAST PROVIDENCE, RI 02914
 TEL: (401) 354-2403
 FAX: (401) 633-6354

T-MOBILE NORTHEAST LLC
 15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 OFFICE: (508) 286-2700
 FAX: (508) 286-2893

TITLE: LEASE EXHIBIT
 SITE NO: CTCLT07A
 SITE NAME: MIDDLETOWN PRIDE COLT
 ADDRESS: 21 PLEASANT ST
 MIDDLETOWN, CT 06457

DATE: 05/28/2019
 DRAWN BY: JWH
 REVISION: 0
 SCALE: NOTED
 SHEET: LE-2

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTCLT07A

Middletown Pride COLT
21 Pleasant Street
Middletown, Connecticut 06457

May 28, 2019

EBI Project Number: 6219001881

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	68.21%

May 28, 2019

T-Mobile

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CTCLT07A - Middletown Pride COLT

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **21 Pleasant Street in Middletown, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 21 Pleasant Street in Middletown, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 2) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation 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.
- 4) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused

parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 5) The **Commscope 5NPX1006F** is a multi-beam antenna that covers approximately 100 degrees utilizing 5 separate narrow beams per band separated by 20 degrees of azimuth orientation between each adjacent beam. For T-Mobile's installation, this antenna will be utilized to broadcast 5 separate sectors. Configuration and power data is shown below in the ***T-Mobile Site Inventory and Power Data*** table and is broken down by sector.
- 6) The antenna mounting height centerline of the proposed antenna is 35 feet above ground level (AGL).
- 7) Emissions from additional carriers were not included because emissions data for the site location are not available.
- 8) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector	Azimuth	Antenna Make / Model	Antenna Height (ft)	Frequency Band (MHz)	Technology	TX Power per Channel (W)	Number of Channels	Composite ERP (W)	Power Density Value ($\mu\text{w}/\text{cm}^2$)	FCC General Population Limit ($\mu\text{w}/\text{cm}^2$)	% Allowable FCC General Population Limit	Composite Sector % Allowable FCC General Population Limit
A	270	Commscope 5NPX1006F	35	1900	LTE	60	2	10,819	317.5	1000	31.75	68.21%
	270	Commscope 5NPX1006F	35	2100	LTE	60	2	12,422	364.6	1000	36.46	
B	290	Commscope 5NPX1006F	35	1900	LTE	60	2	10,819	317.5	1000	31.75	68.21%
	290	Commscope 5NPX1006F	35	2100	LTE	60	2	12,422	364.6	1000	36.46	
C	310	Commscope 5NPX1006F	35	1900	LTE	60	2	10,819	317.5	1000	31.75	68.21%
	310	Commscope 5NPX1006F	35	2100	LTE	60	2	12,422	364.6	1000	36.46	
D	330	Commscope 5NPX1006F	35	1900	LTE	60	2	10,819	317.5	1000	31.75	68.21%
	330	Commscope 5NPX1006F	35	2100	LTE	60	2	12,422	364.6	1000	36.46	
E	350	Commscope 5NPX1006F	35	1900	LTE	60	2	10,819	317.5	1000	31.75	68.21%
	350	Commscope 5NPX1006F	35	2100	LTE	60	2	12,422	364.6	1000	36.46	



EBI Consulting

environmental | engineering | due diligence

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Per Sector Max)	68.21%
No Additional Carriers at This Facility	N/A
Site Total MPE % :	68.21%

T-Mobile Maximum MPE Power Values (Per Sector Max)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 1900 MHz LTE	2	5409.43	35.0	317.51	1900 MHz LTE	1000	31.75%
T-Mobile 2100 MHz LTE	2	6210.85	35.0	364.55	2100 MHz LTE	1000	36.46%
						Total:	68.21%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	68.21%
Sector B:	68.21%
Sector C:	68.21%
Sector D:	68.21%
Sector E:	68.21%
T-Mobile Maximum MPE % (Per Sector):	68.21%
Site Total:	68.21%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **68.21%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

Connecticut Market

May 29, 2019

Re: STANDARD AGREEMENT by and between Middlesex Health Resources ("Landlord") and T-Mobile Northeast LLC as successor-in interest to Omnipoint Communications, Inc. ("Tenant").

Site Number: CTCLT07A

Site Address: 21 Pleasant Street Middletown, CT("Property")

To Whom It May Concern,

Tenant has the right to place a Cell On Lite Truck ("COLT") at 21 Pleasant Street Middletown, CT from 6/12/19 to 6/17/19. The COLT will be removed by 6/27/19.

Please signify your approval by signing and dating one (1) original of this Consent Letter in the space provided below. Kindly return the Consent Letter via fax to the attention of Thomas White at 774-215-5423 or scan and email the Consent Letter to twhite@trmcom.com.

Should you have any questions, please contact Thomas White at 203-417-4446. Thank you in advance for your cooperation in this matter.

Very truly yours,

Thomas White
Agent for T-Mobile

Acknowledged, Accepted and Agreed:

By:

A handwritten signature in black ink that reads "David G. Brilla".

VP, Operations, Middlesex Hospital

Date: June 4, 2019