# Robinson+Cole

KENNETH C. BALDWIN

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

Also admitted in Massachusetts and New York

November 20, 2023

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

Re:

Notice of Exempt Modification – Facility Modifications Cellco Partnership d/b/a Verizon Wireless

P2P Project - 56 Cosgrove Road, Willington, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently holds a license, issued by the Federal Communications Commission ("FCC"), to provide wireless communications services in the 28 GHz frequency range. To meet its FCC license requirements for frequency use and deployment, Cellco plans to deploy a new, "Point to Point" ("P2P") 28 GHz microwave system at numerous cell sites in Connecticut. Initially, these frequencies will help Cellco maintain certain security systems currently used to monitor cell site equipment. This notice pertains to the P2P system that will be deployed at Cellco's existing cell site at 56 Cosgrove Road in Willington, Connecticut (the "Willington Cell Site"). The existing Willington site was approved by the Council in July 1986 (Docket No. 58). A copy of the Council's Decision and Order in Docket No. 58 is included in Attachment 1.

To establish the referenced P2P system, Cellco will install two (2) point to point microwave dish antennas on the roof of the existing equipment shelter at the Willington Cell Site. Unlike the broadcast antennas on the tower, the P2P dish antennas will communicate only with each other. Shelter-mounted dish antennas will be installed at opposite ends of the shelter roof, approximately 20 feet apart, at a height of approximately twelve (12) feet above grade. The antennas would be attached to a non-penetrating ballast-mounted antenna mast. A copy of the Proposed Shelter View, antenna mount illustration and dish antenna specifications are included in <u>Attachment 2</u>.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with

28319613-v1

# Robinson+Cole

Melanie A. Bachman, Esq. November 20, 2023 Page 2

R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Willington's Chief Elected Official and Land Use Officer. A copy of this letter is being sent to the owner of the Property.

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

- 1. The proposed modifications will not result in an increase in the height of the existing tower. The proposed 28 GHz antennas will be installed on roof of the shelter at the cell site, approximately twelve (12) feet above grade.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The installation of the 28 GHz antennas will not increase radio frequency ("RF") emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Included in <u>Attachment 3</u> is a Calculated Radio Frequency Emissions Report verifying that RF emissions from the Willington Cell Site with the P2P system installed will comply with the FCC Standards.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. According to the attached August 14, 2023, letter from Dewberry Engineers Incorporated, Cellco's existing shelter can support the proposed 28 GHz antenna installations. A copy of the Dewberry letter is included in <u>Attachment 4</u>.

A Certificate of Mailing verifying that this filing was sent to the municipal officials and the property owner for each location is included in <u>Attachment 5</u>.

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

Sincerely,

Kun & MM— Kenneth C. Baldwin

Enclosures Copy to:

Erika Wiecenski, First Selectman Michael D'Amato, Zoning Agent Estate if Isabel Drobney, Property Owner Aleksey Tyurin, Verizon Wireless

# **ATTACHMENT 1**

AN APPLICATION OF HARTFORD CELLULAR
COPANY FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC
NEED FOR THE CONSTRUCTION, MAINTENANCE,
AND OPERATION OF FACILITIES TO PROVIDE
CELLULAR SERVICE IN HARTFORD, TOLLAND AND
MIDDLESEX COUNTIES.

CONNECTICUT SITING

COUNCIL

July 11, 1986.

# DECISION AND ORDER

Pursuant to the foregoing opinion, the Connecticut Siting Council (Council) hereby directs that a Certificate of Environmental Compatibility and Public Need as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to the Hartford Cellular Company for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Glastonbury, Haddam, Hartford, Portland, Rocky Hill, Somers, Vernon, Windsor, and Willington subject to the conditions below.

- 1) The proposed Bloomfield and Middlefield sites are rejected without prejudice.
- 2) The antennas on the Glastonbury tower shall be mounted no higher than the 180' level of this existing tower.
  - 3) The Portland and Rocky Hill towers shall be monopoles.
- 4) The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed total heights, including antennas, of
  - a) 193' at the Haddam site;
  - b) 173' at the Portland site;

- c) 153' at the Rocky Hill site;
- d) 173' at the Somers site;
- e) 173' at the Vernon site;
- f) 153' at the Willington site;
- g) 173' at the Windsor site.
- 5) The Hartford site receive antennas shall be mounted below the top of the high point of the building to preclude visibility.
- 6) Any future actions requiring the removal of the existing Glastonbury tower to be shared by the certificate holder shall also apply to the equipment mounted on that tower by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.
- 7) The certificate holder shall submit a development and management (D&M) plan for the Haddam, Portland, Rocky Hill, Somers, Vernon and Windsor sites pursuant to Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA), except that irrelevant items in Section 16-50j-76 need only be identified as such. In addition to the requirements of Section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Haddam, Somers, Vernon, and Windsor sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. The D&M plan must be approved prior to facility construction. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.
- 8) All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the

site plan required by order number 7.

- 9) The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this decison shall continue to be in compliance with such standards.
- 10) The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with Section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to any approved tower.
- 11) A fence not lower than 8' shall surround each tower and associated equipment.
- 12) Unless necessary to comply with order 13, no lights shall be installed on any of these towers.
- 13) The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to Section 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.
- 14) Construction activities shall take place during daylight working hours.

- 15) This decision and order shall be void and the towers and associate equipment shall be dismantled and removed, or reapplication for any new use shall be made to the Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.
- 16) This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Middletown Press, Manchester Journal Inquirer, and the Willimantic Chronicle.

The parties to the proceeding are:

Metro Mobile (applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855
ATTN: Armand Mascioli
General Manager

Howard L. Slater, Esq.
Scott A. Gursky, Esq.
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
111 Pearl Street
Hartford, Connecticut 06103

Richard Rubin, Esq. Fleischman and Walsh, P.C. 1725 N Street, N.W. Washington, D. C. 20036 (its attorneys)

Mr. William Wamester 1225 Randolph Road Middletown, Connecticut 06457

The Southern New England Telephone Company 227 Church Street New Haven, Connecticut 06506 ATIN: Peter J. Tyrrell, Esq.

Mr. James W. Tilney

represented by:
Patricia A. Ayars
Samuel Baily, Jr.
Robinson & Cole
One Commercial Plaza
Hartford, CT. 06103-3597

Mr. Samuel DuBosar, Chairman Bessie Bennett, Esq. Town Plan & Zoning Commission P.O. Box 337 Bloomfield, Connecticut 06002

Town of Somers

represented by:

Mr. Robert F. Peters Town Counsel

Tatoian, Devline, Peters

& Davis
11 South Road
P.O. Box 415
Somers, CT. 06071

Town of Haddam represented by:

Lucy R. Petrella Chairperson

Town Office Building

Route 9A P.O. Box 87 Haddam, CT. 06438

Midstate Regional Planning Agency

represented by:

Thomas M.Gilligan Regional Planner P.O. Box 139

Middletown, CT. 06457

Dr. Donald P. IaSalle Director Talcott Mountain Science Center Montevideo Road Avon, Connecticut 06001

Barnard Tilson Secretary Avon Planning and Zoning 60 West Main Street Avon, Connecticut 06001 (service waived)

Alden Giddings 33 Privelege Road Bloomfield, Connecticut 06002

Town of Bloomfield

represented by:

Joseph M.Suggs, Jr.
Deputy Mayor
Town Hall
880 Bloomfield Avenue
P.O. Box 337
Bloomfield, CT. 06002
(service waived)

Town of Middlefield

represented by:

David Silverstone, Esq. Silverstone & Koontz 37 Lewis Street Hartford, CT. 06103

with a copy to:

Geoffrey Colegrove Midstate Regional Planning Agency 100 DeKoven Drive Middletown, CT. 06457

Zoning Commission Town of Somers represented by:

Joseph A. Paradis Chairman Town Hall 600 Main Street P.O. Box 803 Somers, CT. 06071 Barbara Sirwilo, Secretary
Planning & Zoning Commission
Town of Rocky Hill
600 Old Main Street
P.O. Box 657
Rocky Hill, Connecticut 06067

(service waived)

H. Robert Goodrich Goodrich Lane Portland, Connecticut 06480 (service waived)

The Honorable Richard P. Antonetti State Representative (service waived) 5 Sachem Circle

Meriden, Connecticut 06450

John Hevrin R.D. #1 - Plains Road Haddam, Connecticut 06438

Norman and Darlene Manning (represented by)

Elizabeth Allen, Esq. P.O. Box 467 Higganum, CT. 06441 (service waived)

# CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 11th day of July, 1986.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Absent
Commissioner John Downey Designee: Patricia Shea	Yes
Commissioner Stanley Pac Designee: Christopher Cooper	Yes
Twen L. Clark	Yes
Johnes G. Gelston ) Mortimer A. Gelston	Yes
James G. Horsfall	Yes
Pamela B. Katz	Absent
William H. Smith )	Yes
Colin C. Tait	Yes

STATE OF CONNECTICUT
)
: ss. New Britain, July 11, 1986
COUNTY OF HARTFORD
)

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Christopher S. Wood, Executive Director Connecticut Siting Council

# TOWN OF WILLINGTON APPLICATION FOR ZONING AND BUILDING PERMIT

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Special Permit Application.	•	
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# PLANNING & ZONING COMMISSION Willington, Connecticut 06279

# **ZONING PERMIT**

	# . P		Sanata (Sanata 19 #18
This permit is hereby applied  Proviousinution  addition	or in accordance with the r	equirements of the willing  Change of use  Dexcavating/filling	回 other
Zoning District Lot	•		orovals
Record Map # Subdi			
Location	(Sines)	Site Plan Арр	proval, yes □, no □
Property Owner AMALL.	Address		Phone
PROPERTY USE:	Single Family Residence Multi-Family Residence	L. Gemmercial Li Industrial	C) Other
PROPOSED ST	RUCTURES	Existing Structures: N	lo. ,
1. Description 2. Dimensions 3. Livable Floor Area 4. Estimated Cost of Construct		SIGN PERMIT ONLY	Patraanent i J Yemporary Li Blookbaard Lattering
i_ Health Dept. Approval: # , . E Driveway permit: #		Color Dimensions Area	
Conditions of Approval:		Building Frontage Parmitted Area	
Reasons for Dental:		Letter Style Malerial Finish Lighting	
[] Plot Plan Attached [] Conforming All Aspects □ Non Conforming		Front Set-Back_ Sketch to Scafe Attached Approved by	D
☐ Variance granted to		Date	
ignature of owner or authorized ag	completed within 1 year of the upon the plot plen submitted approval of this permit shall of year. (Agent's ph	he date of lesuance. Falsification, by misropre constitute a violation of the constitute a viola	esentation or ornission; or failure Willington Zoning Regulations. ereby . ☐ Issued ☐ Deniad
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Record			
overify that a plot plan (attach the above-referenced lot and th an inclicates that the constructi res, and/or use are hereby auth sistilication, by mis-represental all invalidate this Certificate.	ed) certified by e structures thereon has bee on or use is in conformance w orized for occupancy. This ion or omission shall constit	on n presented to the Zoning vith all the applicable Zoning cartifloste is based on the ute a violation of the Willi	19 Enforcement Officer, and such ng Regulations. Such lot, atrus- octifilied plot plan submitted, ngton Zonling Regulations and
ate 19	by	LAND USE AGE	NT MMISSION

# **ATTACHMENT 2**

# Proposed shelter view



- Rohn Non-Penetrating Roof mount (not quoted HW/Logistics per RFP)
- 30-inch mast
- Quick assembly
- 8 blocks @ 32lbs = 256 lbs of ballast (TBD)
- Cable management will consist of
- Angle adaptors with snap-ins
- PVC pipe runs across roof top
- Possible Fiberbond chase (still being reviewed)



- Hatch plate to be used
- Existing grounding points
  - No new penetrations
    - Roof or walls
- Existing rack power2 x 10amp
- Existing cable trays



# **Technical Specifications**

**WTM 4100** 

ANSI with A2C+ Operation



# **General Specifications**

General Frequency Bands		5 - 38 GHz
Physical Configurations		1+0, 2+0 ACCP (via A2C+), 2+0 XPIC (via external OMT)
Modulation and Coding	Fixed or Adaptive	QPSK to 4096 QAM / Hitless AM
Channel Sizes	1,770	3.75, 5, 10, 20, 25, 30, 40, 50, 60, 80 and 100 MHz
Capacity (standard single channel)	Airlink Capacity	up to 918 Mbit/s*
	Airlink Capacity	up to 1836 Mbit/s*
Capacity (A2C mode)	Turini Capacity	256-bit AES Payload Encryption
Encryption	Recommended A	viat Design™ on aviatcloud.com (includes MIMO, Multi-band)
Design Tools	Supported	Pathloss 5 (basic support only)
Power Supply		
Voltage	DC	±20 to 57V
	PoE	48Vdc (44 to 58Vdc)
Consumption		50 Watts nominal
Sondanipwer		65 Watts maximum
Physical		
Size (h-w-d), including antenna interfa-	ces	11.5in x 10.5in x 4in (295mm x 270mm x 95mm)
Weight, including antenna interfaces		12lbs (5.5 kg)
Operating Temperature	Guaranteed	-27 to +131°F (-33° to +55°C)
	Extended	-49 to +159°F (-45° to +65°C)[1
Humidity	Guaranteed	100%
Altitude	Guaranteed	15,000 ft (4500m)
Standards Compliance		
EMC		FCC CFR 47, Part 15, ICES-003
Operation		EN 300 019-2-4, Class 4.1
Safety		UL 60950-1, UL 60950-22, UL 62368-1
RF Performance		FCC CFR 47, Part 101
W Tollowie	All Federal Frequencie	Manual of Regulations for Federal Radio
		Frequency Management
Maximum Permissible Exposure		EN 50385
Water Ingress		IEC 60529, IP66
Lightning Protection		Internal, compliant to IEC 61000-4-5, Class 5
Security		FIPS 197 validated (Certificate A980)
Transmitter / Rece	eiver	
Transmitter	Selection of the least	
Transmit Power Tolerance	5-28 GHz	± 2.0 dB
Transfill to the state of the s	38 GHz	± 2.5 dB
Transmitter Source		Synthesized
Frequency Stability		± 5 ppm
Manual Transmitter Power Control Ra	nge	Configurable in 0.1 dB steps from min to max power levels
Automatic Transmitter Power Control		Configurable over the 20dB attenuation range
		0.1 dB steps / 50dB/s
Action and	Resolution / Speed	
Synthesizer Resolution	Resolution / Speed	250 KHz



# Transmitter / Receiver

Receiver		Synthesized
Receiver Source		
Frequency Stability		± 5 ppm
Receiver Overload	BER = 1E-6	-20 dBm
Residual (Background) Bit Error	r Rate	Better than 1E-13
RSSI Accuracy [4]	-30 to -70 dBm, -27 to +131°F (-33° to +55°C)	Better than ± 2.5dB
TOO! / todaiday - 1	-20 to -30 dBm, -27 to +131°F (-33° to +55°C)	Better than ± 3.5dB
	-20 to -30 dBm, -49 to +149°F (-45° to +65°C)	Better than ± 4.5dB

# Networking CF/12

-	-	-
_	ΕA	

OLILE	The second secon
Switch capability	50 Gbps non-blocking
Quality of Service (QoS)	8 COS, Scheduling, Policing, Storm Control, Shaping
QoS Mapping	PCP (802.1p), DSCP, H-QoS
VLANs	IEEE 802.1Q and IEEE 802.1ad (Q-in-Q)
Spanning Tree	Rapid and multiple protocols (RSTP, MSTP)
Ethernet OAM	IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
Congestion Avoidance	WRED, per queue
Congestion Avoidanted	Packet Buffer – 180 Mbyte
Jumbo frames	Up to 9600 bytes
Synchronisation	
Procision Time Protocol	IEEE 1588v2 TC or BC

# **General Specifications**

# Interfaces

Traffic	2x fixed RJ45	10/100/1000BT Electrical
Tranic	2x optional SFP	1, 2.5 & 10Gbps speeds, both
	ii ii	Optical (Single and Multi-mode) and Electrical
Power	Direct	24Vdc or 48Vdc
04401	Power over Ethernet	Via 10/100/1000BT Electrical port
USB support	Management	Local setup, sw/fw upgrade, config backup
Wireless connection		via Wifi
RSSI		Dual voltmeter pins
Management		
Local Management		Configuration save & load
Local Management		Wireless USB dongle to support Wifi
		Aviat OS software upgrade
Event Capture		Event and Alarm capture, time stamp and logging
Statistics		RMON 1 Ethernet and radio performance statistics
Network Management		SNMPv2c ProVision or MIB interface support
TASTANOIK INC. ISSUED INC.	IPv4 addressing with	n an In-Band Management VLAN. Telnet or SSH access
		Aviat Cloud - Manage Advanced
Clock	Simple Netwo	ork Time Protocol (SNTP V4), embedded real time clock

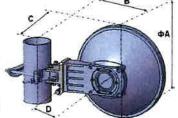


# **Microwave Antenna Specifications**

# SLA0328S3S49A20 0.3m Ultra High Performance Antenna Flange Type Rectangular



	Electrical Specif	fications			
Frequency (GHz)		27.5~	29.5		
Polarization		Single	(V or H)		
Gain , Low(dBi)		37.7			
Gain, Mid(dBi)		38			
Gain, Top(dBi)		38.3			
Beam Width		2.0°			
Cross-pol. Discrimination_XPD (de	3)	30			
F/B Ratio (dB)		64			
VSWR / RL (dB)		1.3/17	7.7		
Regulatory Compliance		ETS! E	N 302217 I	Range 4 Cl	ass 3
	lechanical Spec	ifications			
Diameter (m)		0.3			
Antenna Color		Cool	Fray 1C		
Radome Options		Foam			
Interface Type	UBR320 OR Customized				
Side Struts, Included		0			
Azimuth Adjustment	Azimuth Adjustment		Coarse : 360 ° Fine : ±15 °		
Elevation Adjustment		Fine :	Fine: ±15°		
Diameter of Mounting Pole (mm)		Ф51~	Ф114		
Wind Velocity Survival Rating (km/h)		252	252		
Wind Velocity Operational (km/h)		200	200		
Ice-load (mm)	25.4				
Operational Temperature (°C)		-45~+60			
Packaging		Cartor	Carton		
L×W×H (mm)		480*4	480*480*267		
	Vind Load Spec	ifications			R. A.
Axial Force (N) @ survival wind speed		444	444		
Side Force (N) @ survival wind speed		219			
Twisting Moment (N•m) @ surviv	al wind speed	141			
B	Dimensions	ФА	В	С	D
ФА	(mm)	386	318	137	180
	<ol> <li>The values of B and</li> <li>The thickness of th</li> </ol>				

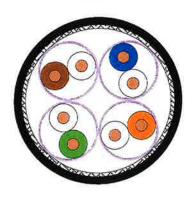


Email: sales@shenglu.com Website:http://www.shenglu.com

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Technisches Datenblatt - Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt

# 02YSCH 4X2X0.62/1.5-100 PIMF BK Cat 6A



#### Design:

#### Wire

Bare copper wire (22AWG) Insulation of foamed Polyethylene (PE) with skin Ø 0.62 mm (0,024 in dia) Ø 1.50 mm (0,059 in dia)

#### Screened pair

2 wires twisted to a pair Alulaminate foil overlapped, applied longitudinally

#### Core:

4 screened pairs Sequence of colors: WH/BL, WH/OR, WH/GN, WH/BR Shield braiding of tinned copper wires Coverage about 80%

#### Jacket:

Thermoplastic copolymer (FRNC)BK Wall thickness about 0.80 mm

Ø (8.8 $\pm$ 0.3) mm (0.346 $\pm$ 0.012 in dia)

Inkjet -marking: "sequential length in metres" LEONI L \* S/FTP CAT 6A SOLID CABLE 22AWG 4PR "internal lot number"

# Electrical data at 20° C

Coductor resistance	≤	65	Ohm/km
	≥	5	G0hm*km
Insulation resistance	_	46	pF/m
Capacitance (1kHz)		460	ns/100 m
Phase delay		10	ns/100 m
Skew at 100 MHz		$100 \pm 10$	Ohm
Characteristic impedance 100 MHz		125	V
Operating voltage (peak)		1000	V
Test voltage		1000	•

LEON Cable (China) Co. Ltd.	Phone +86 (0)519-8512-5671	Fax +86 (0)519-8512-5660	Internet www.leon

Technical modification reserved Date of issue: 01.04.2019

Creator: LCC BG IN/ Alex Number: C45497-F2863-C1

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Page 1/2

# **ATTACHMENT 3**



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# Calculated Radio Frequency Emissions Report



Willington CT 56 Cosgrove Road, Willington, CT 06279

November 16, 2023

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#### 1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed installation of Verizon's 28 GHz microwave antenna to be mounted at 12' AGL on roof of the equipment shelter located at 56 Cosgrove Road in Willington, CT. The coordinates of the monopole tower are 41° 53' 32.90" N, 72° 15' 38.1" W.

Verizon is proposing the following:

1) Install one (1) 28 GHz point-to-point microwave system.

This report considers the planned<sup>1</sup> antenna configuration for Verizon as well as existing antenna configuration for DISH<sup>2</sup>, T-Mobile<sup>3</sup> and Verizon<sup>4</sup> to derive the resulting % MPE of its proposed installation.

# 2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm<sup>2</sup>). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment C contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

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<sup>&</sup>lt;sup>1</sup> As referenced to Verizon's Far Field Calculation sheet updated 06/07/2023 included in Attachment D.

<sup>&</sup>lt;sup>2</sup> As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – Cosgrove Road Whifford Hill, West Willington, Connecticut, dated 01/06/2023

<sup>&</sup>lt;sup>3</sup> As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – Cosgrove Road Whifford Hill, West Willington, Connecticut, dated 01/06/2023

<sup>&</sup>lt;sup>4</sup> As referenced to Verizon's Radio Frequency Design Sheet (RFDS) updated 4/27/2022



#### 3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

Power Density = 
$$\left(\frac{GRF^2 \times 1.64 \times ERP}{4\pi \times R^2}\right)$$
 X Off Beam Loss

Where:

EIRP = Effective Isotropic Radiated Power

$$R = \text{Radial Distance} = \sqrt{\left(H^2 + V^2\right)}$$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

Willington CT 2 November 16, 2023



# 4. Antenna Inventory

Table 1 below outlines Verizon's existing antenna configuration for the site. The associated data sheets and antenna patterns for these specific antenna models are included in Attachment C.

Operator		TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
		700	160	14.9	4944		65			
		850	160	15.0	5060	NHH-65B-R2B	60	0	5.99	138
	Alpha	1900	160	17.9	9866	NПП-05D-NZD	69	0	5.77	150
		2100	240	18.4	16604		64			
		3700	200	25.5	70963	MT6407-77A		0	2.92	138
		700	160	14.9	4944		65			
		850	160	15.0	5060	NHH-65B-R2B	60	0	5.99	138
	Beta	1900	160	17.9	9866	[NIII1-03D-102D	69		3.77	150
Verizon		2100	240	18.4	16604		64			
		3700	200	25.5	70963	MT6407-77A		0	5.99	138
		700	160	14.9	4944		65			
		850	160	15.0	5060	NHH-65B-R2B	60	0	5.99	138
	Gamma	1900	160	17.9	9866	NHH-03D-KZD	69		1	136
		2100	240	18.4	16604		64			
		3700	200	25.5	70963	MT6407-77A	93	0	2.92	138
	P2P	28000	0.2	38	1287	SLA0328S3S49A20	2	0	1	12

Table 1: Proposed Antenna Inventory



#### 5. Calculation Results

The calculated power density results are shown in Figure 1 below. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within  $\pm$  5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

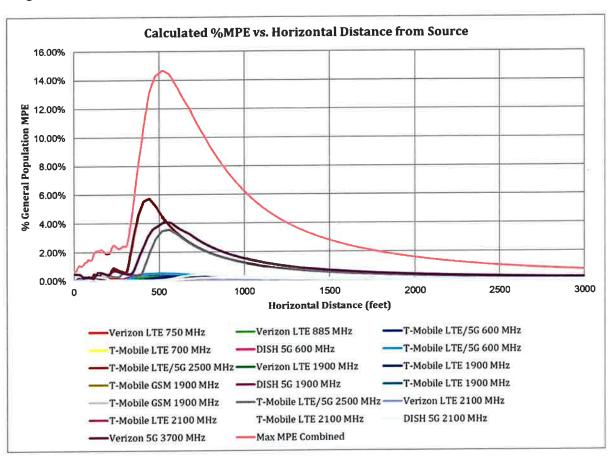


Figure 1: Graph of General Population % MPE vs. Distance

The highest combined value for % MPE for existing emitters (14.65% of the General Population limit) is calculated to occur at a horizontal distance of 529 feet from antennas. The maximum %MPE generated by the proposed 28 GHz microwave system is 0.12% and occurs at the distance of 344 feet. While the peak % MPE generated by the proposed 28 GHz microwave system does not occur at the same point as the peak cumulative %MPE for all existing emitters, as a very conservative calculation of the total %MPE, we add the 14.65% predicted at 529 feet to the 0.12% predicted for the 28 GHz system at 344 feet to arrive at a total maximum % MPE of 14.77%.

Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1500 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.



Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 529 feet from the site (reference Figure 1).

As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm²)	Limit (mW/cm²)	% <b>MPE</b>
DISH 5G 1900 MHz	1	160.0	114.0	529	0.000625	1.000	0.06%
DISH 5G 2100 MHz	1	160.0	114.0	529	0.000492	1.000	0.05%
DISH 5G 600 MHz	1	160.0	114.0	529	0.001945	0.400	0.49%
T-Mobile GSM 1900 MHz	1	15.0	100.0	529	0.000185	1.000	0.02%
T-Mobile GSM 1900 MHz	1	15.0	125.0	529	0.000022	1.000	0.00%
T-Mobile LTE 1900 MHz	1	160.0	100.0	529	0.001971	1.000	0.20%
T-Mobile LTE 1900 MHz	1	160.0	125.0	529	0.000237	1.000	0.02%
T-Mobile LTE 2100 MHz	1	160.0	125.0	529	0.000262	1.000	0.03%
T-Mobile LTE 2100 MHz	1	160.0	125.0	529	0.000262	1.000	0.03%
T-Mobile LTE 700 MHz	1	120.0	125.0	529	0.000763	0.467	0.16%
T-Mobile LTE/5G 2500 MHz	1	160.0	100.0	529	0.043123	1.000	4.31%
T-Mobile LTE/5G 2500 MHz	1	160.0	125.0	529	0.034929	1.000	3.49%
T-Mobile LTE/5G 600 MHz	1	120.0	125.0	529	0.001102	0.400	0.28%
T-Mobile LTE/5G 600 MHz	1	120.0	100.0	529	0.002091	0.400	0.52%
Verizon 5G 3700 MHz	1	200.0	138.0	529	0.040918	1.000	4.09%
Verizon LTE 1900 MHz	1	160.0	138.0	529	0.000911	1.000	0.09%
Verizon LTE 2100 MHz	1	240.0	138.0	529	0.000861	1.000	0.09%
Verizon LTE 750 MHz	1	160.0	138.0	529	0.002064	0.500	0.41%
Verizon LTE 885 MHz	1	160.0	138.0	529	0.001739	0.567	0.31%
		•	111			Total	14.65%
Verizon LTE 28GHz	1	0.2	12.0	344	0.001248	1.000	0.12%
						Grand Total	14.77%

Table 2: Maximum Percent of General Population Exposure Values



#### 6. Conclusion

The above analysis verifies that RF exposure levels from the site with Verizon's proposed 28 GHz microwave antenna will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all existing transmitters and the proposed 28 GHz microwave system is calculated to be 14.77% of the FCC limit (General Population/Uncontrolled). This maximum cumulative percent of MPE value is calculated to occur 529 feet away from the site.

#### 7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

Report Prepared By:

Ram Acharya

RF Engineer 1

C Squared Systems, LLC

Mark of Fand

November 15, 2023

Date

Reviewed/Approved By:

Martin Lavin Senior RF Engineer C Squared Systems, LLC November 16, 2023 Date



#### **Attachment A: References**

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95,1-2005, IEEE Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2002 (R2008), IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz IEEE-SA Standards Board

# Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

Limits for Occu	pational/Contro	lled Exposure <sup>5</sup>		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time $ E ^2$ , $ H ^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6

<sup>&</sup>lt;sup>5</sup> Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

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3.0-30	1842/f	4.89/f	(900/f²)*	6
30-300	61.4	0.163	1.0	6
300-1500	4	· ·	f/300	6
1500-100,000	-	( <b>5</b> )	5	6

# (B) Limits for General Population/Uncontrolled Exposure<sup>6</sup>

Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time $ E ^2$ , $ H ^2$ or S (minutes)
614	1.63	(100)*	30
824/f	2.19/f	$(180/f^2)*$	30
27.5	0.073	0.2	30
(±)	-	f/1500	30
=		1.0	30
-	Strength (E) (V/m) 614 824/f 27.5	Strength (E)         Strength (E)           (V/m)         (A/m)           614         1.63           824/f         2.19/f           27.5         0.073	Strength (E) (V/m)         Strength (E) (A/m)         Power Density (S) (mW/cm²)           614         1.63         (100)*           824/f         2.19/f         (180/f²)*           27.5         0.073         0.2           -         f/1500

f = frequency in MHz \* Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

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<sup>&</sup>lt;sup>6</sup> General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



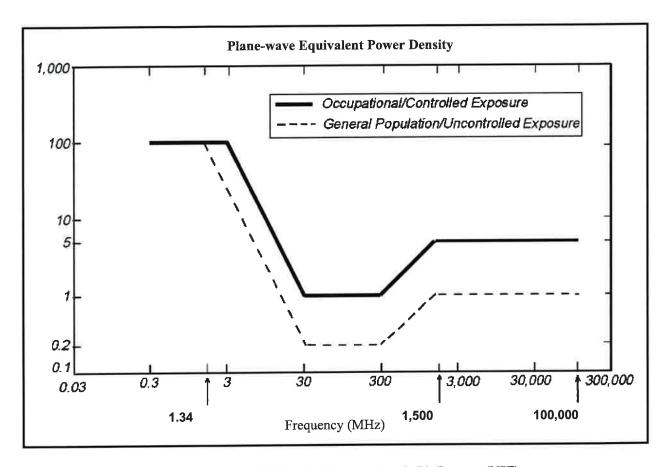


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)



# Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

# LTE 700 MHz

Manufacturer: COMMSCOPE

Model #: NHH-65B-R2B

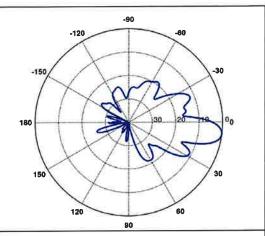
Frequency Band: 698-806 MHz

Gain: 14.5 dBi

Vertical Beamwidth: 12.4° Horizontal Beamwidth: 65°

Polarization: ±45°

Dimensions (L x W x D): 71.97" x 11.85" x 7.09"



# LTE 850 MHz

Manufacturer: COMMSCOPE

Model #: NHH-65B-R2B

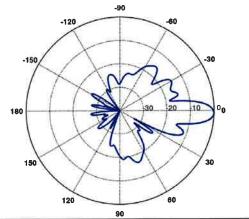
Frequency Band: 806-896 MHz

Gain: 15.0 dBi

Vertical Beamwidth: 11.2° Horizontal Beamwidth: 60°

Polarization: ±45°

Dimensions (L x W x D): 71.97" x 11.85" x 7.09"





# **LTE 1900 MHz**

Manufacturer: COMMSCOPE

Model #: NHH-65B-R2B

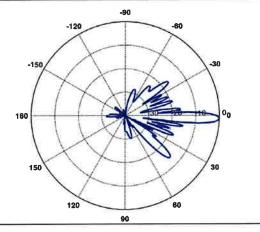
Frequency Band: 1850-1990 MHz

Gain: 17.9 dBi

Vertical Beamwidth: 5.2° Horizontal Beamwidth: 69°

Polarization: ±45°

Dimensions (L x W x D): 71.97" x 11.85" x 7.09"



# **LTE 2100 MHz**

Manufacturer: COMMSCOPE

Model #: NHHSS-65B-R2B

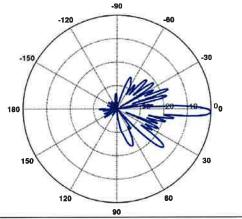
Frequency Band: 1920-2200 MHz

Gain: 18.0 dBi

Vertical Beamwidth: 4.9° Horizontal Beamwidth: 64°

Polarization: ±45°

Dimensions (L x W x D): 71.97" x 11.85" x 7.09"





# Attachment D: Far Field Calculation Sheet

70 1	20 CH
Band	28 GHz
Operating Frequency (MHz)	27,500
General Population MPE (mW/cm^2)	1.000
ERP Per Transmitter (Watts)	785
Number of Transmitters	1
Antenna Centerline (feet)	12
Total ERP (Watts)	785
Total ERP (dBm)	59
Maximum % of General Population Limit	0.12%
Distance to Maximum % of General Population Limit (feet)	344

# **ATTACHMENT 4**



August 14, 2023

Alex Tyurin Verizon Wireless og East River Drive East Hartford, CT 06108

Dear Mr. Tyurin:

Verizon Wireless has proposed to install (2) new Rohn FRM Ballast Sleds, (2) new 0.3m Microwave Antenna, and (2) WTM4000 Radio on the rooftop of an equipment shelter at various locations in Connecticut. The proposed equipment will be mounted on the rooftop of the ground mounted equipment shelter with a maximum height of 15' to the CL of the dish. This assessment letter is limited to Connecticut sites only.

Dewberry Engineers Inc. (Dewberry) has reviewed the latest antenna design provided by Verizon Wireless and has determined, based on a maximum ultimate wind speed of 140 mph, exposure D, per ANSI/TIA-222-H and 2022 CT State Building Code, that the proposed ballast sled and equipment shelter roof have adequate capacity to support the proposed equipment configuration. Each proposed ballast sled requires (6) CMU ballast blocks (34 lb . ea.), equaling 204 lbs of ballast to be evenly distributed across both trays. The proposed ballast sled, including ballast blocks, do not exceed the 40 psf minimum allowable roof live load of the existing shelter. The proposed ballast frame is controlled by overturning moment and the maximum utilization of the proposed mount is 43.0%. Dewberry assumes that the new antennas and associated equipment are installed per the manufacturer's specifications.

This assessment is based on our assumption that the ground mounted equipment shelter, and proposed ballast mounts are in good condition and were constructed in accordance with ANSI/TIA-222-H standards and the 2022 CT State Building Code. If, during construction, any damage, deterioration, and/or discrepancies are noticed, Dewberry is to be notified to assess any deviation from the assumed condition. Any alteration in equipment loading described above and on the associated plans will void any conclusions expressed herein and will require further analysis and design. No structural qualification is made or implied by this structural letter for existing structural members not supporting the proposed installation.

If you have any questions, please do not hesitate to call me at 617-531-0744.

Sincerely,

Dewberry Engineers Inc.

THOP CONNECTO

CENSED HE

CENS 108/14/2023 Brandon Kelsey, P.E. (CT) CT License No.: 36967

Structural Project Engineer

# **ATTACHMENT 5**

# Verizon/P2P Project - Willington

# Certificate of Mailing — Firm

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