# PLEASE TYPE OR PRINT (LEGIBLY)

	For Office Use Only:  Tax map Section: 077. Block: 18 Lot: 06.3 Zoning District: BA
1. A	ddress of subject property: 2648 S. Salina Street, Syracuse, NY 13205
2. Ye	ear property was purchased by current owner:
3. A <sub>l</sub>	pplicant/contact information:
	a. Owner(s) (current titleholder):  Name(s): Dunk & Bright Holdings
	Mailing Address: 2648 S. Salina Street, Syracuse, NY
	Zip: 13205 Daytime phone number: home phone number:
	E-mail (alternate contact for additional information request):
	b. Contract purchaser(s) , Lessee , or Co-applicant (if applicable)
	*note: Copy of contract to purchase must be included with application if this contract purchaser or lessee applies.
	Name(s):
	Mailing Address:
	Zip: Home phone number: Day Phone:
	E-mail (alternate contact for additional information request):
	c. Representative: Attorney, Architect, Contractor, Other (Only if involved in this application)
	Name(s): Nixon Peabody LLP, Robert J. Brenner, Esq.
	Mailing Address: 1300 Clinton Square, Rochester, NY
	Zip: 14604 Telephone number: (585) 263-1035
1	elecommunications tower
	roposed use and occupancy of property:
Cu	urrent number of onsite (off-street) parking spaces: N/A
Pro	oposed number of onsite (off-street) parking spaces: N/A

Days and hours of operation (for any business uses):
N/A
Explain in detail what (if any) new additions or construction is proposed on the site:  upgrade existing antenna arrays
Reason for request:
The courts have distinguished between use variances (for uses which are not permitted) and area variance (for excess lot coverage, additions into required yards, etc.). Be aware that the standards of proof for a use variance are much more demanding than for an area variance and that the burden is on the applicant to provide such proof in arguing their case. (See Standard of Proof requirements on required submittal page.)
Use additional sheets of paper to present proof if necessary.
Upgrade existing antenna arrays
The following affirmation must be signed and dated by the CURRENT PROPERTY OWNER or the owner's LEGAL representative (attorney, power of attorney, partner in the business, etc.).  DECLARATION
I understand that false statements made herein are punishable as a Class A Misdemeanor, pursuant to section 210.45 of the Penal Law of the State of New York. I declare that, subject to the penalties of perjury, any statements made on this application and any attachments are the truth and to the best of my knowledge correct.
I also understand that any false statements and/or attachments presented knowingly in connection with this application will make consideration of this application null and void.
Signature of CURRENT PROPERTY OWNER (or owner's LEGAL representative)  Date
Printed or typed name of person whose significant is above (if legal representative, also state relationship to

owner).



# OFFICE OF ZONING ADMINISTRATION Stephanie A. Miner, Mayor

# REFERRAL COMMENTS

12/13/2017

Variance (Use): V-05-03 M4

Address: 2648 Salina St S & Brighton Av, Syracuse, 13205

Hearing Date: 1/4/2018

Request:

UPGRADING EXISTING ANTENNAS (VERIZON)

The departments and/or Boards below have reviewed the above application and provided the following comments for your information and action as appropriate.

Approval	Status	Status Date	Reviewer	Comments
DPW Street Repair - Zoning	Internal Review Complete	12/04/2017	Richard DeMarzo	no concerns
DPW Commissioner - Zoning	Internal Review Complete	12/06/2017	Martin Davis	no issue
DPW Sewers - Zoning	Internal Review Complete	12/07/2017	Vinny Esposito	nay excavation will require utility locations
DPW Sidewalks - Zoning	Internal Review Complete	12/05/2017	Chris Ettinger	no concerns
Eng. Design & Cons Zoning	Pending	11/21/2017		No objections to proposed variance. Any future alterations shall be submitted to the City for review and approval prior to construction.
City Engineer - Zoning	Internal Review Complete	11/22/2017	Ray Wills	-City Engineer Defers comment to Mapping, Design and Construction and other reviewing DeptsCity Engineer deferment does not render permits for any work in the ROW (i.e. Street Cuts, Encroachments etc) unnecessary. Should the project require it, the permits must be obtained in advance of work commencing -Review and acceptance of Project Site Reviews, Special Permits or any of the like does not absolve the applicant from the responsibility of obtaining permits for work inside the ROW (ex Street Cuts, Curb Cuts, Encroachments, Sidewalk replacement, etc), or where applicable obtaining a SWPPP prior to work commencingTHE CITY ENGINEER DEFERRAL APPLIES TO THIS REVIEW ONLY.
Eng. Mapping - Zoning	Internal Review Complete	11/21/2017	Ray Wills	-Work as shown should have no impact on Mapping Division assets.

DPW - Transportation Planner	Internal Review Complete	11/30/2017	Neil Milcarek- Burke	No major concerns.
	Internal Review Complete	12/01/2017	Jim French	no concerns
Water Engineering - Zoning	Pending	11/21/2017		

Tax Map

#### 2648 South Salina Street

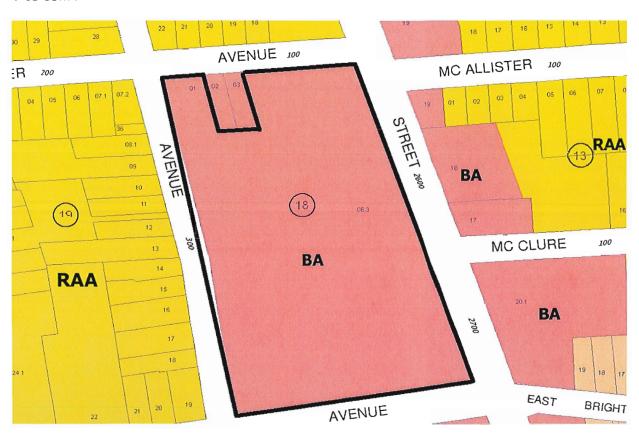
#### V-05-03M4



## Zoning Map and Google Street

#### 2648 South Salina Street

#### V-05-03M4

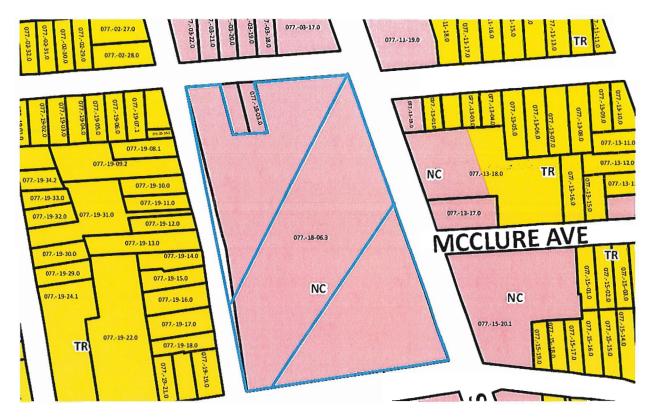




#### Character Area Map and Description

#### 2648 South Salina Street

V-05-03M4



#### Neighborhood Center

These neighborhood-scale commercial centers were designed to serve pedestrians and so buildings were tightly packed together, built up to the sidewalk, and featured large storefront windows to entice shoppers—all of which are desirable characteristics in new development today and assets of these neighborhood centers that should be protected and expanded upon. Most buildings here are one-to-two stories tall, but some with residential or office uses above can be up to four stories tall. Uses here include retail, services, restaurants, office, and residential. Active uses should be located on the ground floor whenever possible. Large new buildings inserted into the streetscape should break up their sidewalk-facing façade with vertical articulation and windows to fit in with the smaller surrounding buildings and avoid visual monotony. Sidewalks should be wide enough to accommodate heavy pedestrian traffic and, in some locations, café seating. Occasionally detached housing is mixed into these centers, especially when they take the form of a corridor rather than a node, such as South Ave. and Butternut Circle. Residential building forms like this are not unusual in this character area, and they are often converted to commercial use with the addition of a storefront—a mix and match of forms and uses should be allowed here. (See the table following and the photos of the Northside Gallery and Recess coffee shop elsewhere in this plan, illustrations of converted residential buildings.)

## DIVISION OF CODE ENFORCEMENT 201 E. WASHINGTON STREET — ROOM 101 SYRACUSE, NEW YORK 13202-1430

# **DENIAL OF PERMIT**

:

REFE	RENCE ADDRESS 2648 S. Salina	Street
		. WARD NO
OWN	ER Dunk & Bright Holdings	
	ER'S ADDRESS 2648 South Salina	Street
	Syracuse N. 4. 13	
	0	
APPL	ICATION FOR PERMIT TO:	•
	erect ( ) convert ( ) n	naintain ( ) operate ( )
DEN	IED UNDER ARTICLE (s) B, TT, 2	a C T 7
,	of the zoning ordinance fo	r the following reasons:
V		
-;		
	PLANS ATTACHED, APPROVED BY	LOCATION OF REFERENCE ADDRESS: ASSESSOR'S ATLAS
	SURVEY ATTACHED	BOOK (S) NO.
	ZONING REVIEWED BY	PLATE (S) NO.
		PARCEL (S) NO.
	DATE Dec 12, 2017 SIGNATURE	Haift Swistoff

# 617.20 Appendix B Short Environmental Assessment Form

#### **Instructions for Completing**

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information	accessoria est, a-s. annon de	in de Calain (alla mentra para anno anno anno anno anno anno anno a	CCCCLACCO CALLANDANO	endemaker philipped stoods decode	***************************************	
Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless						
Name of Action or Project:	**************************************			~ <u>uallo.co:co:~autumo</u>	***************************************	
Verizon Wireless Site: South Salina						
Project Location (describe, and attach a location map):		n version in manage page of a degree where recovering an ending of the substantial character degree de degree de degree degree degree degree degree degree degree de degree de degree de degree de degree deg	K evelndes versering en seithing	nogari e gongoocoddinooni <del>e e go</del> nee e		
2648 South Salina Street Syracuse, NY 13205 (City of Syracuse, Onondaga County)						
Brief Description of Proposed Action:	***************************************	The state of the s				
Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless (Verizon Wireless antennas and RRH units on the existing monopole at the above referenced site.	as the a	pplicant) proposes the re	placer	ment of		
The project includes the replacement of six (6) existing antennas (2 per sector, total of 6 6) and the replacement of three (3) existing RRH units (1 per sector, total of3) with six (6 mounted to the existing booms (typ. 3) on the existing monopole. The existing antennas ground level.	) propos	ed RRH units (2 per sect	or, tota	al of 6) to	o be	
Name of Applicant or Sponsor:	Telepl	ione: 315-373-3040	eccentrial cal forwards	ngalanga Anada kanangan dilikah	**************************************	
Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless	THE PERSON NAMED IN COLUMN TWO	1: rmccabe@pyramidns.	com	and the second control of the second control	page sesseccoss, calcates setting a	
Address:	AND THE PERSON NAMED IN PARTY OF	ecocionicar men con consenente escociore con recono, a cocca di driccio e e recon el como con consenence	er-eccess-eseece-concine	.cogp.co.ruceassaccoursecourse	e.coredouecrosterecraread	
1275 John Street, Suite 100						
City/PO:		State:	Zip	Code:		
West Henrietta		NY	1458	36	~~************************************	
1. Does the proposed action only involve the legislative adoption of a plan, le	ocal law	, ordinance,		NO	YES	
administrative rule, or regulation?  If Yes, attach a narrative description of the intent of the proposed action and	the env	ironmental resources t	hat	V		
may be affected in the municipality and proceed to Part 2. If no, continue to						
2. Does the proposed action require a permit, approval or funding from any	other go	overnmental Agency?		NO	YES	
If Yes, list agency(s) name and permit or approval:				V		
3.a. Total acreage of the site of the proposed action?  b. Total acreage to be physically disturbed?  c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?  0.018 acres  0.018 acres						
4. Check all land uses that occur on, adjoining and near the proposed action.  ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Comm ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (☐ Parkland ☐ Parkland ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ercial	□Resìdential (suburl		www.commonwood		

RESET

a. A permitted use under the zoning regulations?  b. Consistent with the adopted comprehensive plan?  c. Is the proposed action consistent with the predominant character of the existing built or natural and sundanger?  7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?  17. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?  18. a. Will the proposed action result in a substantial increase in traffic above present levels?  19. Are public transportation service(s) available at or near the site of the proposed action?  10. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?  10. Will the proposed action meet or exceed the state energy code requirements?  11. Will the proposed action will exceed requirements, describe design features and technologies:  12. An Does the proposed action connect to existing public/private water supply?  13. An Does the site contain a structure that is listed on either the State or National Register of Historic Places?  14. Identify the proposed action located in an archeological sensitive area?  15. An Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wellands or other waterbodies regulated by a federal, state or local agency?  19. We well and or other waterbodies regulated by a federal, state or local agency?  19. We will storm water discharge and extent of alterations in square feet or acres:  11. Will the proposed action physically after, or encroach into, any existing welland or waterbody?  11. We will the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?  10. We State the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?  10. We State the proposed action create storm water discharge	5. Is the proposed action,	NO	YES	N/A
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		A An Obert Space	L. p. manney (squares.	****

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)?  If Yes, explain purpose and size:	entersons en est material est.	<b>№</b>	YES
19. Has the site of the proposed action or an adjoining property been the location of an active or clos solid waste management facility?  If Yes, describe:		VO	YES
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ong completed) for hazardous waste?  If Yes, describe:	oing or I	VO	YES
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO KNOWLEDGE  Applicant/sponsor name: C&S Engineers for Verizon Wireless  Date: 7/28/17	TO THE BE	ST O	F MY
Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Ans questions in Part 2 using the information contained in Part 1 and other materials submitted by the proof otherwise available to the reviewer. When answering the questions the reviewer should be guided by	ject sponsor	or	
responses been reasonable considering the scale and context of the proposed action?"	No, or small impact may occur	to l im	lerate arge pact iay
Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	small impact may	to l im	arge pact iay
Will the proposed action create a material conflict with an adopted land use plan or zoning	small impact may	to l im	arge pact iay
Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	small impact may	to l im	arge pact iay
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<ol> <li>Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?</li> <li>Will the proposed action result in a change in the use or intensity of use of land?</li> <li>Will the proposed action impair the character or quality of the existing community?</li> <li>Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?</li> <li>Will the proposed action result in an adverse change in the existing level of traffic or</li> </ol>	small impact may	to l im	arge pact iay
<ol> <li>Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?</li> <li>Will the proposed action result in a change in the use or intensity of use of land?</li> <li>Will the proposed action impair the character or quality of the existing community?</li> <li>Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?</li> <li>Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?</li> <li>Will the proposed action cause an increase in the use of energy and it fails to incorporate</li> </ol>	small impact may	to l im	arge pact iay
<ol> <li>Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?</li> <li>Will the proposed action result in a change in the use or intensity of use of land?</li> <li>Will the proposed action impair the character or quality of the existing community?</li> <li>Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?</li> <li>Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?</li> <li>Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?</li> <li>Will the proposed action impact existing:</li> </ol>	small impact may	to l im	arge pact iay
<ol> <li>Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?</li> <li>Will the proposed action result in a change in the use or intensity of use of land?</li> <li>Will the proposed action impair the character or quality of the existing community?</li> <li>Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?</li> <li>Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?</li> <li>Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?</li> <li>Will the proposed action impact existing:         <ul> <li>a. public / private water supplies?</li> </ul> </li> </ol>	small impact may	to l im	arge pact iay

		No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the poten problems?	tial for erosion, flooding or drainage		
11. Will the proposed action create a hazard to environmental i	resources or human health?		
Part 3 - Determination of significance. The Lead Agency is question in Part 2 that was answered "moderate to large impact element of the proposed action may or will not result in a significant 3 should, in sufficient detail, identify the impact, including the project sponsor to avoid or reduce impacts. Part 3 should almay or will not be significant. Each potential impact should be duration, irreversibility, geographic scope and magnitude. Also cumulative impacts.	may occur", or if there is a need to explicant adverse environmental impact, p any measures or design elements that iso explain how the lead agency determ assessed considering its setting, probal	plain why a lease comp have been i nined that the bility of occ	particular lete Part 3. included by he impact curring,
Check this box if you have determined, based on the information that the proposed action may result in one or more potential impact statement is required.  Check this box if you have determined, based on the information that the proposed action will not result in any significant.	entially large or significant adverse imp rmation and analysis above, and any su	oacts and an	1
Name of Lead Agency	Date	THE STORY OF THE STORY OF THE STORY STORY STORY	B 44 in Mary - Tours gall a residence connection distinguish
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible O	fficer	re-c distal accessoration accessoration for the control of
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different fro	om Respons	sible Officer)
			DECET
PRINT Page 4	4 of 4		RESET



NIXON PEABODY LLP ATTORNEYS AT LAW NIXONPEABODY.COM @NIXONPEABODYLLP

Robert J. Brenner Associate T 585-263-1035 rbrenner@nixonpeabody.com

1300 Clinton Square Rochester, NY 14604-1792 585-263-1000

November 13, 2017

#### VIA FEDERAL EXPRESS

Zoning Board of Appeals City of Syracuse 201 East Washington Street, Room 211 Syracuse, New York 13202

RE: Application by Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless for a use variance from the City of Syracuse Zoning Board of Appeals to perform an antenna upgrade on an existing wireless telecommunications facility located at 2648 S. Salina Street, City of Syracuse, New York (Verizon Wireless' "South Salina" Cell Site)

Dear Members of the Zoning Board of Appeals:

Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless ("Verizon Wireless"), is a public utility and wireless telecommunications licensee of the Federal Communications Commission ("FCC"). To provide reliable wireless telecommunications service around the neighborhoods and along the surrounding roadways along I-81 and US Route 11 (South Salina Street, and areas west to Onondaga Creek) and the surrounding area in the City of Syracuse (the "City"), Verizon Wireless proposes to upgrade its existing antenna arrays on the existing tower (the "Project") located at 2648 S. Salina Street, in the City of Syracuse, New York, having a Tax Account No. 77-18-22.1 (the "Site").

Per City staff's request, enclosed is a check in the amount of \$25.00 for the use variance fee, together with a completed copy of the City's use variance application form.

These materials are intended to supplement those previously submitted to the City for the Project.

Zoning Board of Appeals November 13, 2017 Page 2

Please let us know if you have any questions or need any additional information. Otherwise, we respectfully request this application be placed on the Zoning Board of Appeals' next meeting agenda.

Very truly yours,

Robert J. Brenner

Enclosures RJB/mg



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Nixon Peabody LLP 1300 Clinton Square Rochester, NY 14604-1792 585-263-1000

September 20, 2017

#### VIA FEDERAL EXPRESS

Planning Commission
City of Syracuse
201 East Washington Street, Room 211
Syracuse, New York 13202

RE: Application by Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless for site plan approval from the City of Syracuse Planning Commission to perform an antenna upgrade on an existing wireless telecommunications facility located at 2648 S. Salina Street, City of Syracuse, New York (Verizon Wireless' "South Salina" Cell Site)

Dear Members of the Planning Commission:

Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless ("Verizon Wireless"), is a public utility and wireless telecommunications licensee of the Federal Communications Commission ("FCC"). To provide reliable wireless telecommunications service around the neighborhoods and along the surrounding roadways along I-81 and US Route 11 (South Salina Street, and areas west to Onondaga Creek) and the surrounding area in the City of Syracuse (the "City"), Verizon Wireless proposes to upgrade its existing antenna arrays on the existing tower (the "Project") located at 2648 S. Salina Street, in the City of Syracuse, New York, having a Tax Account No. 77-18-06.3 (the "Site").

The Project will consist of the replacement of six (6) existing antennas with six (6) proposed antennas and the replacement of three (3) RRH units with six (6) proposed RRH units on the existing 80' monopole, together with other site improvements (the "Project"), all as shown on the enclosed site plan prepared by C&S Engineers, Inc.

Accordingly, please accept this letter with the following exhibits and enclosures as Verizon Wireless' application for site plan approval for the upgrade described in this application:

Exhibit A: Completed City-supplied application form;

Exhibit B: Project description;

Exhibit C: Applicable legal standards;

Planning Commission September 20, 2017 Page 2

<u>Exhibit D</u>: Radio frequency analysis with propagation studies;

<u>Exhibit E</u>: Short environmental assessment form ("EAF") with visual addendum;

Exhibit F: Structural analysis report;

Exhibit G: Proof of compliance with applicable federal regulations;

Exhibit H: 11" x 17" copy of the Project site plan; and

Exhibit I: Verizon Wireless' FCC Licenses.

• Three (3) copies of this application book.

Because the Project is within 500' of a State or County resource (here, I-81 and US Route 11), this application must be referred to the Onondaga County Planning Department pursuant to New York General Municipal Law § 239-m. An extra copy of the application materials have been included for that purpose.

Please let us know if you have any questions or need any additional information. Otherwise, we respectfully request this application be placed on the Planning Commission's October 16, 2017 meeting agenda.

Very truly yours,

Robert J. Brenner

Enclosures RJB/las

#### EXHIBIT B

#### PROJECT DESCRIPTION

# APPLICATION FOR APPROVAL TO UPGRADE AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY ON THE EXISTING TOWER LOCATED AT 2648 S. SALINA STREET IN THE CITY OF SYRACUSE, NEW YORK.

Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless ("Verizon Wireless") is a public utility licensed and regulated by the Federal Communications Commission. It is charged with the responsibility of providing reliable wireless telecommunications service in various parts of New York State, including the South Salina Street area located in the City of Syracuse. Verizon Wireless makes this application to upgrade its facilities on the existing tower in the City of Syracuse, located at 2648 S. Salina Street (Tax Parcel No. 083.-09-05.0) (the "Site"), in order to fulfill its obligation to provide reliable wireless telecommunications service to emergency services, businesses, and individuals in the South Salina cell.

#### 1. Overview of Wireless Telecommunication Technology and this Project

Wireless telecommunication use has burgeoned since the technology was introduced in the mid-1980s. There are currently more than 255 million wireless communication users in the United States. Wireless technology provides a critical link for emergency services, such as ambulances, which use this service to transmit vital signs and medical information via medical telemetry. Increasingly, police forces are relying on wireless telecommunications to communicate with dispatch and receive calls for assistance. Additionally, many businesses heavily rely on wireless telecommunications, and individuals use them not only for their convenience, but for safety reasons as well.

Essentially, wireless telecommunication devices operate by transmitting a very low power radio signal between the wireless device and an antenna mounted on a tower, pole, building or other structure. The antenna feeds the signal to electronic apparatus housed in a small equipment building near the antenna, where it is connected to the landline system, and is

then routed anywhere in the world. The antenna and equipment building are known as a "cell site."

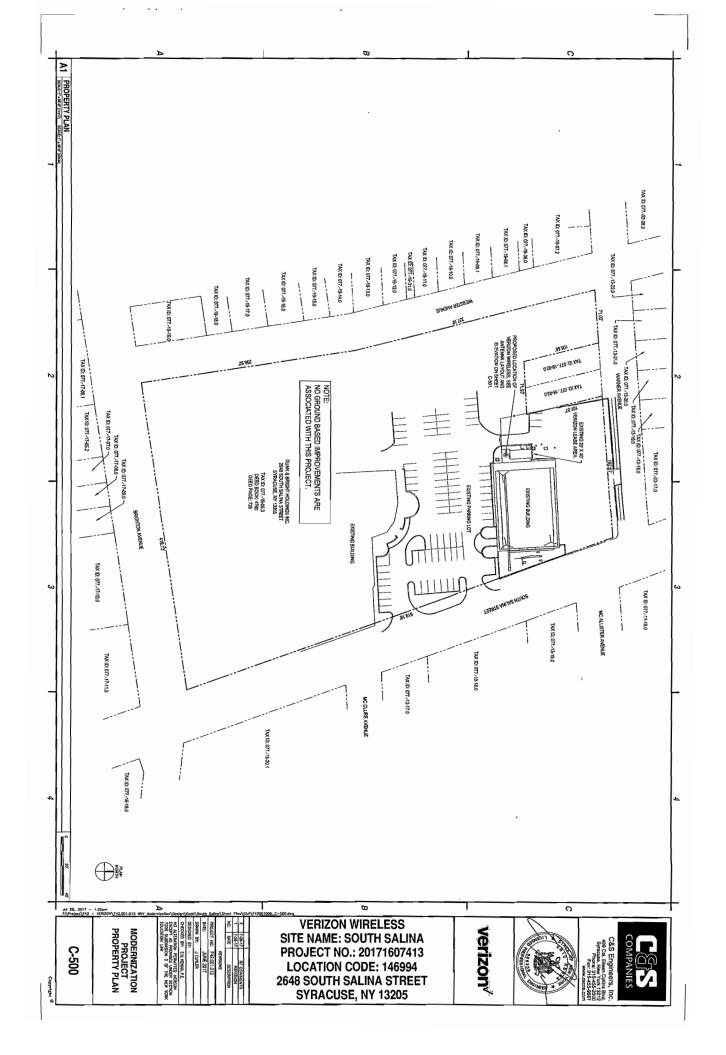
This equipment must be upgraded periodically to ensure that the cell site is operating as intended.

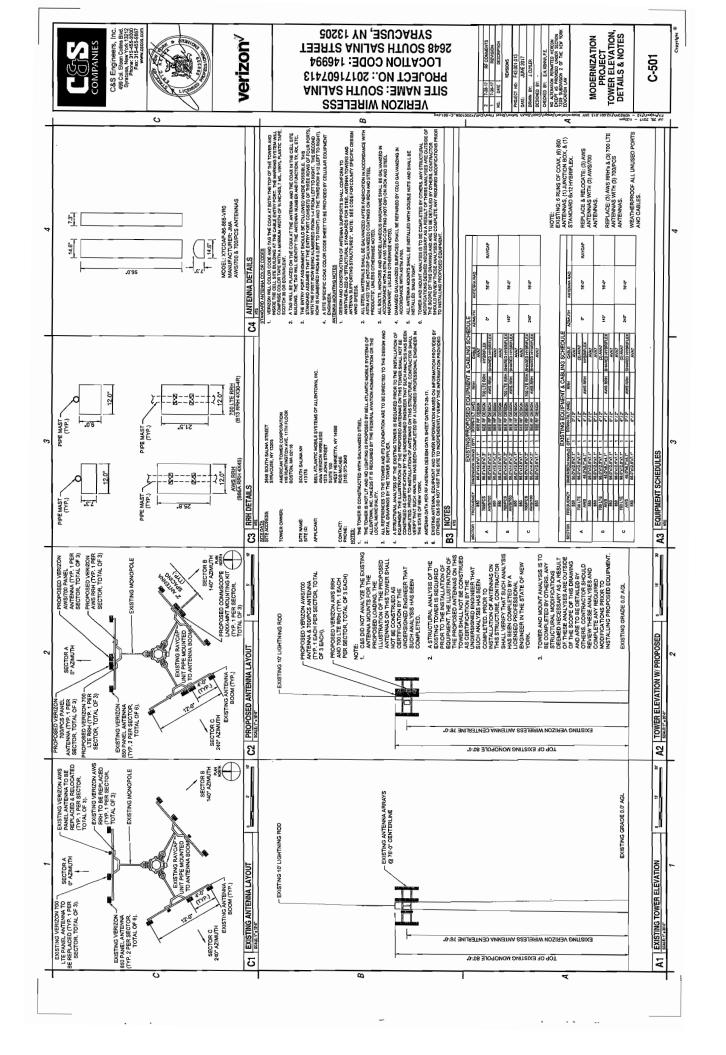
The Project consists of the replacement of six (6) existing antennas with six (6) proposed antennas and the replacement of three (3) RRH units with six (6) proposed RRH units on the existing 80' monopole, together with other site improvements (the "Project"), all as shown on the enclosed site plan prepared by C&S Engineers, Inc.

#### 2. Required Municipal Approvals

Under the City of Syracuse Zoning Ordinance (the "Zoning Code"), the proposed Project appears to be permitted as of right. (Zoning Code § C-1-7). However, based on the project information request letter enclosed as <u>Exhibit B</u>, the City has concluded that site plan approval is required for the proposed Project.

The Project will not pollute, will not create noise or vibration, will not create any significant increase in traffic, will not create any environmental problems, will not increase population density, and will not create any demand on governmental facilities. Thus, the Project will not create any detriment to adjoining properties or change the character of the neighborhood. In fact, the Project will enhance governmental facilities and promote the public welfare by improving the communications capability for emergency service providers serving the City, as well as provide modern wireless telecommunication service to business, industry and individuals in the City.





#### **EXHIBIT C**

#### APPLICABLE LEGAL STANDARDS

In <u>Cellular Tel. Co. v. Rosenberg</u>, 82 N.Y.2d 364 (1993), the New York Court of Appeals determined that cellular telephone companies are public utilities. The Court held that proposed cellular telephone installations are to be reviewed by zoning boards pursuant to the traditional standard afforded to public utilities, rather than the standards generally required for the necessary approvals.

'It has long been held that a zoning board may not exclude a utility from a community where the utility has shown a need for its facilities.' There can be no question of Cell One's need to erect the cell site to eliminate service gaps in its cellular telephone service area. The proposed cell site will also improve the transmission and reception of existing service. Application of our holding in Matter of Consolidated Edison to sitings of cellular telephone companies, such as Cellular One, permits those companies to construct structures necessary for their operation which are prohibited because of existing zoning laws and to provide the desired services to the surrounding community. . . . Moreover, the record supports the conclusion that Cellular One sustained its burden of proving the requisite public necessity. Cellular One established that the erection of the cell site would enable it to remedy gaps in its service area that currently prevent it from providing adequate service to its customers in the Dobbs Ferry area.

Rosenberg, 82 N.Y.2d at 372-74 (citing Consolidated Edison Co. v. Hoffman, 43 N.Y.2d 598 (1978)).

This special treatment of a public utility stems from the essential nature of its service, and because a public utility transmitting facility must be located in a particular area in order to provide service. For instance, water towers, electric switching stations, water pumping stations and telephone poles must be in particular locations (including within residential districts) in order to provide the utility to a specific area:

[Public] utility services are needed in all districts; the service can be provided only if certain facilities (for example, substations) can be located in commercial and even in residential districts. To exclude such use would result in an impairment of an essential service.

Anderson, New York Zoning Law Practice, 3d ed., p. 411 (1984) (hereafter "Anderson"). See also, Cellular Tel. Co. v. Rosenberg, 82 N.Y.2d 364 (1993); Payne v. Taylor, 178 A.D.2d 979 (4th Dep't 1991).

Accordingly, the law in New York is that a municipality may not prohibit facilities, including towers, necessary for the transmission of a public utility. In Rosenberg, 82 N.Y.2d at 371, the court found that "the construction of an antenna tower . . . to facilitate the supply of cellular telephone service is a 'public utility building' within the meaning of a zoning ordinance." See also Long Island Lighting Co. v. Griffin, 272 A.D. 551 (2d Dep't 1947) (a municipal corporation may not prohibit the expansion of a public utility where such expansion is necessary to the maintenance of essential services).

In the present case, Verizon Wireless must upgrade its facility which serves its South Salina cell, located in the City of Syracuse. The proposed Project is needed to provide adequate and reliable wireless telecommunications service coverage to this area. Therefore, Verizon Wireless satisfies the requisite showing of need for the facility under applicable New York law.



# Network Engineering 132 Creek Circle East Syracuse, New York 13057

#### SOUTH SALINA CELL SITE - RADIO FREQUENCY ("RF") ANALYSIS

This report is submitted in connection with the proposed 700 MHz and Advanced Wireless Services (AWS) Remote Radio Head (RRH) upgrade to the existing wireless telecommunications facility located at 2648 South Salina Street, in the City of Syracuse, Onondaga County, which Verizon Wireless ("Verizon Wireless") refers to as the "South Salina" site. The analysis and information below are intended to address the radio frequency ("RF") related aspects in regard to the need for the upgrade.

#### **Background of Facility Design and Coverage Objectives**

From a coverage perspective, the South Salina Facility is intended to provide an adequate and safe level of emergency and non-emergency wireless telecommunications services (in-building and mobile) around the neighborhoods and along the surrounding roadways in and around the Targeted Coverage Area.

#### Specifically:

- The Telecommunications Facility must fill or enhance coverage in areas of weak and unreliable service in Verizon Wireless' 4th Generation (4G)/Long Term Evolution (LTE) (700 MHz) wireless telecommunications network Targeted Coverage Area (along I-81 and US Route 11 (South Salina Street, and areas west to Onondaga Creek) and several other local roads, including the homes and businesses in the area).
- The Telecommunications Facility must also provide new Advanced Wireless Services (AWS, or 2100 MHz) coverage that approximates 700 MHz LTE wireless telecommunications coverage so that Verizon Wireless' wireless telecommunications service is comparable at both 4G LTE and AWS frequencies in and around the Targeted Coverage Area.
- Lastly and of significant importance, coverage from this facility must integrate (to the
  fullest extent possible) with existing service from Verizon Wireless' neighboring cells,
  thereby providing reliable and seamless wireless telecommunications coverage at both
  LTE and AWS frequencies (as well as future 4th Generation wireless
  telecommunications services in the existing cellular 850 MHz and PCS 1900 MHz
  bands), especially along all local and commuter routes passing through and around
  Targeted Coverage Area.

Wireless Facility Design Requirements – Reason For Upgrade

The 4G services currently installed at the South Salina cell site includes both 700 MHz LTE AWS services. The transmitting equipment, referred to as the Remote Radio Head (or RRH), for the AWS service currently provides service for a particular frequency band. Recent changes by the FCC to allow Verizon Wireless to utilize additional spectrum in the AWS band has been authorized (known as AWS-3). This upgrade replaces the existing RRHs with models that utilize the complete spectrum of the authorized frequencies for the AWS band to include AWS-3. This upgrade also upgrades the 700 MHz service by replacing older technology equipment with RRHs. In order to keep up with the growing demand for telecommunication services, AWS (with its complete authorized spectrum) is used to supplement existing 700 MHz service, wherever required. An effort is underway by Verizon Wireless to install the newer RRHs on newly constructed sites and replace older versions with the newer, wider AWS-3 spectrum capable versions. This strategy for utilizing multiple LTE technologies (700 MHz and AWS in this case) is used wherever the demand warrants for sites at or near capacity and allows for full use of the FCC authorized spectrum for AWS service. Since the South Salina cell site is located in an area of dense residential population and near I-81, it is capacity limited in its current configuration. As a result, an RRH upgrade to both 700 MHz and AWS is required to be performed to the South Salina cell site to meet current telecommunication service demands. This strategy of upgrading 700 MHz RRHs and existing AWS RRH models with newer AWS-3 capable versions is being rolled out to cell sites in the Upstate New York area, especially those in urban areas where demand is the greatest.

Figure 1 below shows the South Salina cell site as it exists with 700 MHz coverage followed by Figure 2 of the proposed 700 MHz coverage with the upgraded RRH. Figure 2 shows a slight coverage improvement over the existing coverage.

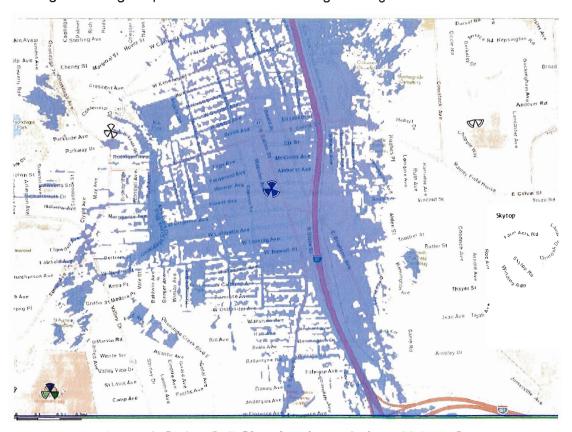


Figure 1. South Salina Cell Site showing existing 700 MHz Coverage



Figure 2. South Salina Cell Site showing proposed 700 MHz Coverage with RRH upgrade (slight improvement)

Figure 3 below shows the South Salina cell site as it exists with AWS coverage followed by Figure 4 of the proposed AWS coverage with the upgraded RRH. Figure 4 shows a coverage improvement over the existing coverage.

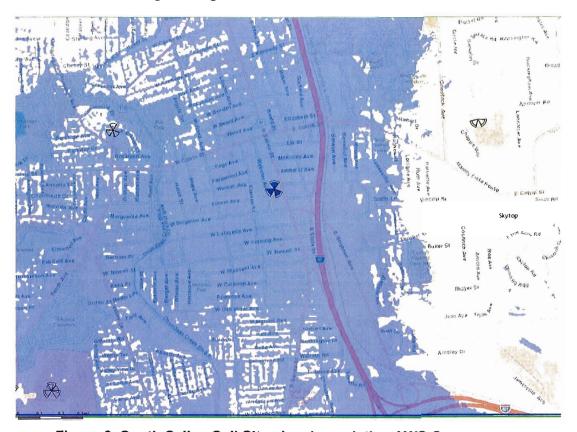


Figure 3. South Salina Cell Site showing existing AWS Coverage



Figure 4. South Salina Cell Site showing proposed AWS Coverage with RRH upgrade

# Conclusion

Based on the increasing demand for LTE service, the existing capacity limitation of the site, and the large coverage area due to its location, it is clear that the upgrade to the 700 MHz and AWS RRHs is required to South Salina facility to meet current telecommunication service demands.

Respectfully submitted by:

Eugene S. DiDomenico Radio Frequency (RF) Design Engineer Verizon Wireless

Date: July 25, 2017



Structural Evaluation								
ATC Site Number & Name 413178, South Salina NY, NY								
Carrier Site Number & Name	N/A, South Salina							
Site Location	339 Webster Avenue							
	Syracuse, NY 13205-1459, Onondaga County							
	43.021950 N / -76.144333 W							
Tower Description	80 ft Monopole							
Basic Wind Speed	90 mph (3-Second Gust, V <sub>asd</sub> ) / 115 mph (3-Second Gust, V <sub>ult</sub> )							
Basic Wind Speed w/ Ice	40 mph (3-Second Gust) w/ 1" ice							
Code	ANSI/TIA-222-G / 2015 IBC							

**Existing and Reserved Equipment** 

Elevation	Otv		Elevation <sup>1</sup> (ft)		Antonna	Mount Time	Lines	Carrier
Mount			Antenna	Mount Type	Lines	Carrier		
77.0	77.0	1	VZW Unused Reserve: 11,169 sq in	Sector Frame	(12) 1 5/8" Coax	Verizon		

**Equipment to be Removed** 

Elevation <sup>1</sup> (ft)		Qty	Antonna	Mount Time	Lines	Carrier
Mount	Mount RAD		Antenna	Antenna Mount Type	Lines	Carrier
77.0	77.0 9	77.0 9 CSS X7C-FRO-840	CSS X7C-FRO-840		(6) 1 5/8" Coax	Verizon
77.0	77.0	3	48" x 6" Panel		(6) 1 5/6 COax	venzon

**Proposed Equipment** 

Elevation <sup>1</sup> (ft)		İΤ				0
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
77.0	77.0	3	Alcatel-Lucent B13 RRH4x30-4R	Sector Frame	(1) 1 1/4" Fiber	Verizon
		1	Raycap RxxDC-3315-PF-48			
		3	Alcatel-Lucent B66A RRH 4x45			
		6	CSS V7C-865			
		3	Alcatel-Lucent RRH2x60-AWS Band 4 w/ Bracket			
		6	JMA Wireless X7CQAP-86-865-VR0			

Mount elevation is defined as height above bottom of steel structure to bottom of mount, RAD elevation is defined as center of antenna above grade level (AGL).

Install proposed coax inside of the pole shaft.

The existing and proposed loads listed in the tables above are compared to the tower's current design capacity or previous structural analysis. The tower should be re-evaluated as future loads are added or if actual loads are found different from those listed in the tables. The subject tower and foundation are adequate to support the

above stated loads in conformance with specified requirements.



#### MILLENNIUM ENGINEERING, P.C.

132 Jaffrey Road Malvern, Pennsylvania 19355

Cell: 610-220-3820

www.millenniumengineering.net

Fax: 610-644-4355 Email: pauldugan@comcast.net

July 25, 2017

Attn: Eugene S. DiDomenico, Engr III Cslt-RF Design Verizon Wireless 132 Creek Circle East Syracuse, NY 13057

Re: RF Safety FCC Compliance of Proposed Communications Facility Modifications (Modernization) Site Name: South Salina, Collocation on Existing 80' Monopole (90' Overall Height) 2648 S. Salina Street, Syracuse, NY 13205 (City of Syracuse, Onondaga County)

Dear Mr. DiDomenico,

I have performed an analysis to provide an independent determination and certification that the proposed Verizon Wireless communications facility modifications at the above referenced property will comply with Federal Communications Commission (FCC) exposure limits and guidelines for human exposure to radiofrequency electromagnetic fields (Code of Federal Regulation 47 CFR 1.1307 and 1.1310). As a registered professional engineer I am under the jurisdiction of the State Registration Boards in which I am licensed to hold paramount the safety, health, and welfare of the public and to issue all public statements in an objective and truthful manner.

The existing communications facility consists of collocation on an existing 80' monopole (90' overall height – top of existing lightning rod) at the above referenced property. The existing Verizon Wireless antenna configuration from the information furnished to me consists of (1) 700 MHz (LTE) antenna (JMA X7C-865-2 or equivalent), (2) 850 MHz (CDMA) antennas (JMA V7C-865-2 or equivalent) and (1) 2100 MHz (LTE) antenna (JMA AXP18-60-2 or equivalent) on each of three faces (total of 12 antennas) spaced with azimuths of 0/140/240 degrees on the horizontal plane at a centerline of 76' above ground level and mechanical downtilt of 4/4/4 degrees for 700 MHz, 0/0/0 degrees for 850 MHz and 4/4/3 degrees for 2100 MHz on each face, respectively. Transmitting from these antennas currently is (1) 700 MHz LTE wideband channel, up to (8) 850 MHz CDMA channels and (1) 2100 MHz LTE wideband channel per face.

Verizon Wireless plans to remove the (3) existing 700 MHz (LTE) antennas and (3) existing 2100 MHz (LTE) antennas and replace them with (1) 700/1900 MHz (LTE) dual-band antenna and (1) 700/2100 MHz (LTE) dual-band antenna on each face. Verizon Wireless also plans to replace the 700 MHz and 2100 MHz remote radio heads on each face. The (6) existing 850 MHz (CDMA) antennas will remain. The revised Verizon Wireless antenna configuration from the information furnished to me consists of (1) 700/1900 MHz (LTE) dual-band antenna (JMA X7CQAP-86-865-V-3 or equivalent), (1) 700/2100 MHz (LTE) dual-band antenna (JMA X7CQAP-86-865-V-3 or equivalent) and (2) 850 MHz (CDMA) antennas (JMA V7C-865-2 or equivalent) on each of three faces (total of 12 antennas) spaced with azimuths of 0/140/240 degrees on the horizontal plane at a centerline of 76' above ground level and mechanical downtilt of 3 degrees for 700/1900 MHz and 700/2100 MHz and 0 degrees for 850 MHz on each face. Verizon Wireless will not initially transmit in the 1900 MHz (PCS) frequency band. Transmitting from these antennas will be up to (2) 700 MHz LTE wideband channels, up to (8) 850 MHz CDMA channels and up to (2) 2100 MHz LTE wideband channels per face.

The following assumptions are made for reasonable upper limit radiofrequency operating parameters for the revised facility due to Verizon Wireless antennas alone to accommodate all licensed frequency bands:

- (1) 700/1900 MHz (LTE) dual-band transmit antenna per face at 0-10 degrees mechanical downtilt
- (1) 700/2100 MHz (LTE) dual-band transmit antenna per face at 0-10 degrees mechanical downtilt
- (1) 850 MHz (CDMA) transmit antenna per face at 0-10 degrees mechanical downtilt
- (2) 700 MHz LTE wideband channels/face at 4x30W max power/face before cable loss/antenna gain
- (8) 850 MHz CDMA channels/face at 20W max power/channel before cable loss/antenna gain
- (2) 1900 MHz LTE wideband channels/face at 4x30W max power/face before cable loss/antenna gain
- (2) 2100 MHz LTE wideband channels/face at 4x45W max power/face before cable loss/antenna gain
- The facility would be at or near full capacity during busy hour

Using the far-field power density equations from FCC Bulletin OET 65, the power density at any given distance from the antennas is equal to  $0.360(ERP)/R^2$  where R is the distance to the point at which the exposure is being calculated. The given equation is a conversion of the OET 65 power density equation for calculating power density given the distance in feet and the result in metric units  $(mW/cm^2)$ . This calculated power density assumes the location is in the main beam of the vertical pattern of the antenna. After making an adjustment for the reduction in power density due to the vertical pattern of the transmit antenna, the calculated ground level power density is below  $2 \mu W/cm^2$  at any distance from the antenna system of Verizon Wireless.

The 700 MHz "Upper C Block" transmit frequencies (746-757 MHz), which Verizon Wireless is licensed by the FCC to operate, have an uncontrolled/general population maximum permissible exposure (MPE) FCC limit of 497  $\mu$ W/cm². The 850 MHz (cellular) "B Band" transmit frequencies (880-894 MHz), which Verizon Wireless is also licensed by the FCC to operate, have an uncontrolled/general population MPE FCC limit of 587  $\mu$ W/cm². The 1900 MHz (PCS) "F Block" transmit frequencies (1970-1975 MHz), which Verizon Wireless is also licensed by the FCC to operate, have an uncontrolled/general population MPE FCC limit of 1000  $\mu$ W/cm² or 1 mW/cm². The 2100 MHz (AWS) "A2 Block", "B Block", "C Block" and "J Block" transmit frequencies (2115-2120, 2120-2130, 2130-2135, 2170-2180 MHz), which Verizon Wireless is also licensed by the FCC to operate, have an uncontrolled/general population MPE FCC limit of 1000  $\mu$ W/cm² or 1 mW/cm². Therefore, the exposure at ground level at any distance from the structure would be substantially below 1 % of the FCC general population exposure limits due to Verizon Wireless antennas alone. The extremely low ground exposure levels are due to the elevated positions of the antennas in the structure and the low power which these systems operate. See Figures 1 and 2 in back of this report which discuss the relationship between height, proximity or distance, and orientation to level of electromagnetic field exposure.

From the information furnished to me, the existing structure does not currently contain any other existing antenna systems.

From the standpoint of RF exposure, the presence of Verizon Wireless does not preclude the future addition of other tenants or licensees including emergency or other municipal services which benefit the public from collocation on this structure. There is a substantial margin of safety to allow for the addition of transmit antennas of other communications services. Keep in mind that continuous exposure at 100 % of standard is considered by the scientific community as just as safe as 1 % of standard since the exposure limits themselves contain a large margin of safety.

In summary, the existing communications facility complies with all applicable exposure limits and guidelines adopted by the FCC governing human exposure to radiofrequency electromagnetic fields (FCC Bulletin OET 65). The facility will remain in compliance with the proposed antenna and operating parameter modifications of Verizon Wireless. Federal law (FCC Rule Title 47 CFR 1.1307 and 1.1310) sets the national standard for compliance with electromagnetic field safety. The FCC exposure limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics

Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI). Thus, there is full compliance with the standards of the IRPA, FCC, IEEE, ANSI, and NCRP.

#### General Information on Electromagnetic Field Safety

Verizon Wireless facilities transmit and receive low power electromagnetic fields (EMF) between base station antennas and handheld portable cell phones. The radiofrequency energy from these facilities and devices is non-ionizing electromagnetic energy. Non-ionizing, unlike X-Rays or other forms of potentially harmful energy in the microwave region, is not cumulative over time nor can the energy change the chemical makeup of atoms (e.g. strip electrons from ions). "Non-ionizing" simply means that the energy is not strong enough to break ionic bonds.

Safe levels of electromagnetic fields were determined by numerous worldwide organizations, such the International Committee for Non-Ionizing Radiation Protection, a worldwide multi-disciplinary team of researchers and scientists studying the effects of non-ionizing radiofrequency energy such as that emitted by base stations or cell phones. The FCC did not arbitrarily establish their own standards, but adopted the recommendations of all leading organizations that set standards and research the subject such as the Institute of Electrical and Electronics Engineers (IEEE), American National Standards Institute (ANSI), and National Council on Radiation Protection and Measurements (NCRP).

When Verizon Wireless is located on an antenna structure such as a self-supporting lattice type tower, monopole, guyed tower, watertank, etc. the antennas are typically 10 meters or more above ground level (10 meters = 32.81 feet). With the relatively low power and elevated positions of the antennas on the structure with respect to ground level, the maximum ground level exposure can rarely approach 1 % of the applicable FCC exposure limit regardless of how many sets of antennas are collocated on the structure. For this reason, the FCC considers the facilities "categorically excluded" from routine evaluation at antenna heights above 10 meters (or above 32.81 feet). Categorical exclusion exempts a site from routine on-site evaluation. However, the facility is not excluded from compliance with the federal exposure limits and guidelines. The types of facilities used by Verizon Wireless typically elevated on antenna structures (away from access to close proximity, i.e. greater than 10 meters or 32.81 feet) simply cannot generate ground level exposure levels that approach the limits under any circumstances.

From a regulatory perspective, the FCC has sole jurisdiction over the regulation of electromagnetic fields from all facilities and devices. The FCC has established guidelines and limits over emissions and exposure to protect the general public. The FCC also has certain criteria that trigger when an environmental evaluation must be performed. The criteria are based on distance from the antennas (accessibility) and transmit power levels.

#### **CONCLUSIONS:**

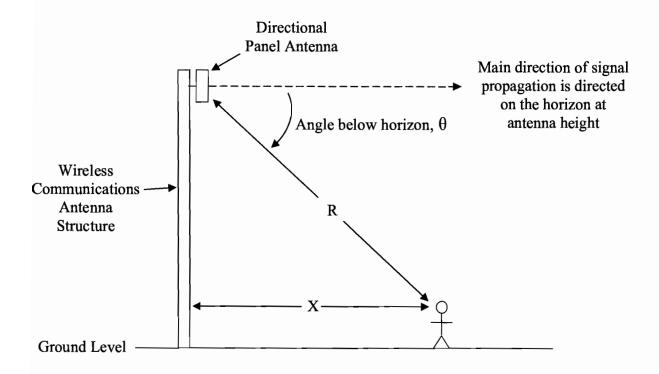
- 1) The existing communications facility complies with electromagnetic field safety standards by a substantial margin (well below 1 %) in all publicly accessible areas. This includes the base of the existing structure and any areas in proximity to the existing structure.
- 2) Verizon Wireless takes appropriate measures to ensure that all telecommunications facilities (including this existing facility with proposed modifications) comply with applicable exposure limits and guidelines adopted by the FCC governing human exposure to radiofrequency electromagnetic fields (FCC Bulletin OET 65). With the proposed antenna and operating parameter modifications of Verizon Wireless, the composite electromagnetic field exposure from the revised communications facility will remain well below 1 % of the applicable standards in all publicly accessible areas.

3) In cases where such compliance exists, the subject of electromagnetic field safety is preempted. The Telecommunications Act of 1996 states that: "No state or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the [FCC's] regulations concerning such emissions." Telecommunications Act of 1996, § 332[c][7][B][iv].

Respectfully,

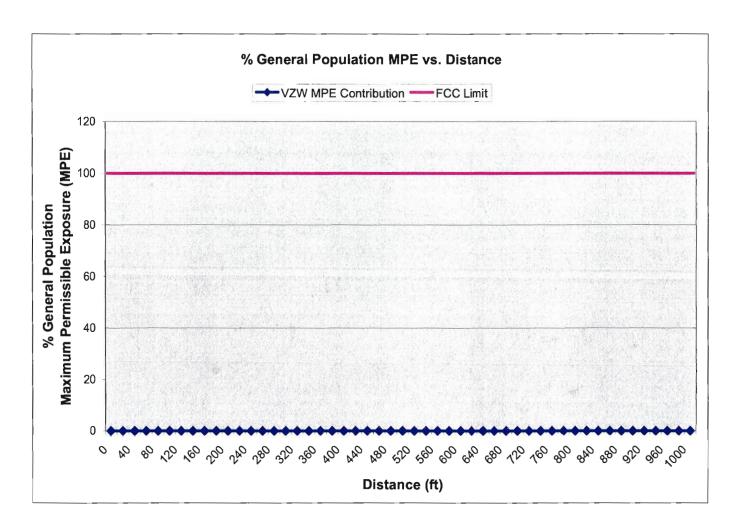
Paul Dugan, P.E. Registered Professional Engineer New York License Number 79144

FIGURE 1: Diagram of Electromagnetic Field Strength as a Function of Distance and Antenna Orientation



The above diagram illustrates the conceptual relationship of distance and orientation to directional panel antennas used in wireless communications. At the base of the structure (x=0), the distance R is a minimum when the angle of the direction of propagation  $\theta$  is a maximum. As one moves away from the antenna structure, the horizontal distance X increases as well as the distance R to the antennas while the angle below the horizon decreases. For this reason, electromagnetic fields from these facilities remain fairly uniform up to a few hundred feet and continue to taper off with distance. As noted in the report, the electromagnetic fields from these types of facilities are hundreds of times below safety standards at any distance from the antenna structure, making them essentially indistinguishable relative to other sources of electromagnetic fields in the environment due to the elevated heights of the antennas and the relatively low power at which these systems operate.

FIGURE 2: Graph of MPE Contribution vs. Distance



The above graph represents the contribution of Verizon Wireless to the composite electromagnetic field exposure level at any distance from the base of the structure. The contribution of Verizon Wireless will remain well under 1% of the FCC general population maximum permissible exposure (MPE) at any distance as shown.

#### **DECLARATION OF ENGINEER**

Paul Dugan, P.E., declares and states that he is a graduate telecommunications consulting engineer (BSE/ME Widener University 1984/1988), whose qualifications are a matter of record with the Federal Communications Commission (FCC). His firm, Millennium Engineering, P.C., has been retained by Verizon Wireless to perform power density measurements or calculations for an existing or proposed communications facility and analyze the data for compliance with FCC exposure limits and guidelines for human exposure to radiofrequency electromagnetic fields.

Mr. Dugan also states that the calculations or measurements made in the evaluation were made by himself or his technical associates under his direct supervision, and the summary letter certification of FCC compliance associated with the foregoing document was made or prepared by him personally. Mr. Dugan is a registered professional engineer in the Jurisdictions of Pennsylvania, New Jersey, Delaware, Maryland, Virginia, New York, Connecticut, District of Columbia, West Virginia and Puerto Rico with over 30 years of engineering experience. Mr. Dugan is also an active member of the Association of Federal Communications Consulting Engineers, the National Council of Examiners for Engineering, the National Society of Professionals Engineers, the Pennsylvania Society of Professional Engineers, and the Radio Club of America. Mr. Dugan further states that all facts and statements contained herein are true and accurate to the best of his own knowledge, except where stated to be in information or belief, and, as to those facts, he believes them to be true. He believes under penalty of perjury the foregoing is true and correct.

Paul Dugan, P.E.

Executed this the 25th day of July, 2017.

#### PAUL DUGAN, P.E.

132 Jaffrey Road Malvern, Pennsylvania 19355

Cell: 610-220-3820
Fax: 610-644-4355
Email: pauldugan@comcast.net
Web Page: www.millenniumengineering.net

**EDUCATION:** Widener University, Chester, Pennsylvania

Master of Business Administration, July 1991

Master of Science, Electrical Engineering, December 1988 Bachelor of Science, Electrical Engineering, May 1984

PROFESSIONAL ASSOCIATIONS:

Registered Professional Engineer in the following jurisdictions:

Pennsylvania, License Number PE-045711-E New Jersey, License Number GE41731

Maryland, License Number 24211 Delaware, License Number 11797 Virginia, License Number 36239 Connecticut, License Number 22566 New York, License Number 079144

District of Columbia, License Number PE-900355

West Virginia, License Number 20258 Puerto Rico, License Number 18946

Full member of The Association of Federal Communications Consulting Engineers

(www.afcce.org) January 1999 to Present

Elected to serve on the Board of Directors for 2006-2007

Full member of The National Society of Professional Engineers (<a href="www.nspe.org">www.nspe.org</a>) and the Pennsylvania Society of Professional Engineers (<a href="www.pspe.org">www.pspe.org</a>) June 2003 to Present Currently serving on the Board of Directors of the Valley Forge Chapter and as South East Region Vice-

Chair for the "Professional Engineers in Private Practice" Executive Committee

Actively participate in Chester County ARES/RACES (CCAR <u>www.w3eoc.org</u>) which prepares and provides emergency backup communications for Chester County Department of Emergency Services, March 2005 to Present

Full member of The National Council of Examiners for Engineering

(www.ncees.org) May 2001 to Present

Full Member of The Radio Club of America

(www.radio-club-of-america.org) December 2003 to present

PROFESSIONAL

Millennium Engineering, P.C., Malvern, Pennsylvania

**EXPERIENCE:** 

Position: President, August 1999 to Present (www.millenniumengineering.net)

Verizon Wireless, Plymouth Meeting, Pennsylvania

Position: Cellular RF System Design/Performance Engineer, April 1990 to August 1999

Communications Test Design, Inc., West Chester, Pennsylvania

Position: Electrical Engineer, May 1984 to April 1990

### AWS (1710-1755 MHz and 2110-2155 MHz) License - WQON841 - Cellco **Partnership**

Call Sign WQON841 Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz) Status Active Auth Type Regular S. Market Market CMA053 - Syracuse, NY Channel Block Submarket 2 Associated 001710.00000000-001720.00000000 002110.00000000-002120.00000000 Frequencies (MHz) Dates Grant 10/17/2011 Expiration 12/18/2021 Effective 11/01/2016 Cancellation **Buildout Deadlines** 1st 2nd **Notification Dates** 

2nd

Licensee

FRN 0003290673 Type General Partnership

Licensee

Cellco Partnership P:(770)797-1070 5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036

Alpharetta, GA 30022 E:licensingcompliance@verizonwireless.com

ATTN Regulatory

Contact

Cellco Partnership P:(770)797-1070 Licensing Manager F:(770)797-1036 5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022 **ATTN Regulatory** 

E:LicensingCompliance@VerizonWireless.com

#### **Ownership and Qualifications**

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications** 

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits** 

This license did not have tribal land bidding credits.

#### Demographics

Race

Ethnicity Gender

# AWS (1710-1755 MHz and 2110-2155 MHz) License - WQQZ838 - Cellco Partnership

Call Sign	WQQZ838	Radio Service	AW - AWS (1710-1755 MHz and 2110- 12155 MHz)
Status	Active	Auth Type	Regular
Market **		A TACKIN	
Market	BEA006 - Syracuse, NY-PA	Channel Block	В
Submarket	8	Associated Frequencies (MHz)	001720.00000000-001730.00000000 002120.00000000-002130.00000000
Dates (		X4 4 - 20	
Grant	03/04/2013	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	
<b>Buildout Deadlines</b>			<b>《多》,《图》</b>
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<b>Notification Dates</b>		Q (W) (M)	THE WALL THE MEAN TELLS
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Licensee	Art I		
FRN	0003290673	Туре	General Partnership
Licensee	\$		· / / / / / / / / / / / / / / / / / / /

Cellco Partnership 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022

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# Contact

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Alpharetta, GA 30022
ATTN Regulatory

P:(770)797-1070 F:(770)797-1036

Yes

E:LicensingCompliance@VerizonWireless.com

#### Ownership and Qualifications

Radio Service Type Mobile

Regulatory Status Common Carrier

mon Carrier Interconnected

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications** 

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

#### Demographics

Race

Ethnicity Gender

**ULS License** 

# AWS (1710-1755 MHz and 2110-2155 MHz) License - WQTX807 - Cellco Partnership

Call Sign	WQTX807	Radio Service	AW - AWS (1710-1755 MHz and 2110- 2155 MHz)
Status	Active	Auth Type	Regular
Market 🍍		* * *	是一个的。 第一个时间,
Market	BEA006 - Syracuse, NY-PA	Channel Block	С
Submarket	6	Associated Frequencies (MHz)	001730.00000000-001735.00000000 002130.00000000-002135.00000000
Dates			
Grant	04/22/2014	Expiration	11/29/2021
Effective	11/01/2016	Cancellation	
<b>Buildout Deadline</b>			ATTOMICATIONS
1st		2nd	
Notification Dates	A A A A A A A A A A		理學學學學學學學
1 st		2nd	

Licensee			
FRN	0003290673	Туре	General Partnership
Licensee		A SK WE WA	<b>贸易受得开展的基础。</b>
Cellco Partnership		P:(770)797-1	1070

Cellco Partnership P:(770)/97-1070
5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036
Alpharetta, GA 30022 E:licensingcomplic

ATTN Regulatory

E:licensingcompliance@verizonwireless.com

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#### Contact

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E:LicensingCompliance@VerizonWireless.com

#### **Ownership and Qualifications**

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

6 8 6 4 6

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications** 

The Applicant answered "No" to each of the Basic Qualification questions.

**Tribal Land Bidding Credits** 

This license did not have tribal land bidding credits.

#### **Demographics**

Race

Ethnicity Gender

## Cellular License - KNKA238 - Bell Atlantic Mobile Systems of Allentown, Inc.

Call Sign KNKA238 Radio Service CL - Cellular Status Active Auth Type Regular Market Market CMA053 - Syracuse, NY Channel Block Submarket 2 Phase JE - 4. 9 A A. S Dates Grant 04/14/2015 Expiration 05/15/2025 Effective 12/09/2016 Cancellation Five Year Buildout Date 05/24/1990 THE STANDARD PROPERTY OF **Control Points** 

3 500 W. Dove Rd., TARRANT, Southlake, TX

P: (800)264-6620

Licensee

FRN 0003301512 Corporation Type

Licensee

P:(770)797-1070 Bell Atlantic Mobile Systems of Allentown, Inc. F:(770)797-1036 5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022

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E:LicensingCompliance@VerizonWireless.com

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Contact

Verizon Wireless P:(770)797-1070 F:(202)289-6781 Liensing Manager

5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022 ATTN Regulatory

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E:LicensingCompliance@VerizonWireless.com

#### **Ownership and Qualifications**

Radio Service Type Mobile

Yes Regulatory Status Common Carrier Interconnected

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications** 

The Applicant answered "No" to each of the Basic Qualification questions.

#### **Demographics**

Race

Ethnicity Gender

#### PCS Broadband License - KNLH276 - Cellco Partnership

This license has pending applications: 0007716979 Call Sign KNLH276 Radio Service CW - PCS Broadband Status Active Auth Type Regular W. U of Pan at a Market Market BTA438 - Syracuse, NY Channel Block F 0 001890.00000000-001895.00000000Submarket Associated Frequencies 001970.00000000-001975.00000000 (MHz) A AT AT Y WALL OF Dates Grant 07/23/2007 06/27/2017 Expiration Effective 11/01/2016 Cancellation 和如"多"的"发"。如果是"是"的"多"的"数"。 **Buildout Deadlines** CHELDY ARE 06/27/2002 1st 2nd BYSE ONE LEFT **Notification Dates 作1.148** 万丈。 06/04/2002 1st 2nd

Licensee

0003290673 FRN Туре

Licensee 🧖 Cellco Partnership

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5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com

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Water J. 7 63 Contact Cellco Partnership

Licensing - Manager 5055 North Point Pkwy, NP2NE Network Engineering

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Ownership and Qualifications

Radio Service Type

Regulatory Status Common Carrier Interconnected

Allen Ownership

Is the applicant a foreign government or the representative of any foreign government? No

Is the applicant an alien or the representative of an alien? No

Is the applicant a corporation organized under the laws of any foreign government? No

Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or No voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of **Yes** the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country?

The Alien Ruling question is not answered.

#### **Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

#### Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

#### Demographics

Race

Ethnicity Gender 46457-3-5555-1

### 700 MHz Upper Band (Block C) License - WQJQ689 - Cellco Partnership

This license has pending applications: 0007719269, 0007581227

Call Sign WQJQ689

WU - 700 MHz Upper Band (Block C) Radio Service

Status Active Auth Type

Market

Market REA001 - Northeast Channel Block

Submarket 000746.00000000-000757.00000000 Associated 000776.00000000-000787.00000000

30 A

Frequencies (MHz)

a. P. L.S.Y.V.

**Dates** 

Grant Expiration 06/13/2019 11/26/2008

Effective 01/31/2017 Cancellation

**Buildout Deadlines** 

1st 06/13/2013

**Notification Dates** 

1st 06/20/2013 2nd

A .1

Licensee

FRN 0003290673 General Partnership Type

Licensee

Cellco Partnership P:(770)797-1070 5055 North Point Pkwy, NP2NE Network Engineering F:(770)797-1036

Alpharetta, GA 30022

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Contact

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5055 North Point Pkwy, NP2NE Network Engineering

Alpharetta, GA 30022 ATTN Regulatory

**Ownership and Qualifications** 

Radio Service Type Mobile

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications** 

The Applicant answered "No" to each of the Basic Qualification questions.

Tribal Land Bidding Credits

84237

This license did not have tribal land bidding credits.

**Demographics** 

Race

Ethnicity Gender