GEHRING & ASSOCIATES, LLC Wireless Planning & Zoning

Post Office Box 98 West Mystic, CT 06388 860-536-0675 wireless@gehringzone.com

May 13, 2019

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

RE: NOTICE OF AN EXEMPT MODIFICATION AT 6 SHIRLEY STREET (A/K/A 0 SHIRLEY ST), NORWALK, CT, LAT: 41-06-55.73, LONG: 73-26-3.64

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Ve_izon") is pleased to submit this Notice pursuant to R.C.S.A. §16-50j-73 of intent to perform exempt modifications to an existing site located at 6 Shirley Street (a/k/a 0 Shirley St.), Norwalk, CT ("Subject Property"). The Subject Property is a 6.39-acre parcel that is host to three (3) guyed lattice radio towers, one of which also hosts conventional personal wireless service co-locators.

Verizon currently operates one such co-location having received CSC approval for a tower-share request on May 15, 2014 (TS-VER-103-140416). The original permitting for the Subject Site, which broadcasts WNLK radio, took place in the 1950s and then again when a variance for the taller tower was obtained in 1983 (see attached decisions). The FCC ASR database lists the towers having been in place at least since 1984. There are no conditions in the prior permitting that would prohibit what is now being proposed.

In the present instance, Verizon intends to place a new shelter at the base of the existing tower facility, next to its existing shelter, to serve as a Centralized Radio Access Network ("CRAN") hub for Verizon's wireless network in the surrounding area.

The modifications will consist of a new 17-foot by 38-foot shelter on-grade, fitted with three (3) HVAC units and one 60kW diesel-fueled emergency stand-by power generator. The generator will sit on a double-walled fuel tank inside a room fitted with spill containment to ensure redundancy against any accidental leaks or releases of diesel fuel. Placement of this new shelter will necessitate a minor expansion of the existing compound fence line but will remain within the confines of the greater "site" as defined in R.C.S.A. §16-50j-2a(29) so that the site itself will not be expanded.

Melanie Bachman, Executive Director May 13, 2019 Page 2 of 3

Access to this new shelter will remain via the existing access drive in from Shirley Street so that no new curb cut or driveway will be required. Utilities to serve the new shelter will come in from an existing utility pole on site; but new fiber lines will also be brought in underground from Rockmeadow Road to the north to connect to existing fiber networks.

No new attachments of any kind will be made to the existing towers on site. No additional stress or loading will be placed on the existing towers' foundations. No changes to the existing RF emissions on site will occur as a result of this fiber-based installation. No significant change or alteration in the general physical characteristics of the site shall occur (C.G.S. §16-50i(d)).

The proposed work complies with R.C.S.A. §16-50j-72(b)(2)(A-F) as follows:

A) No tower height increase is proposed. In fact, the tower(s) will not be touched. (See attached Plans.)

B) The site boundaries will not be extended in any dimension. Only the fence line will be moved slightly, still within the site. (See attached Tax Map and Plans.)

C) Noise levels will not increase by 6 decibels or more, or to levels that exceed state and local criteria. (See attached Sound Assessment.)

D) No RF emissions changes will occur because the new shelter will be serviced by underground fiber cable. (See attached Plans.)

E) No significant adverse change or alteration in the physical or environmental characteristics of the site will occur. The area is already disturbed and developed and no vetlands or other environmental resources will be impacted by this minor expansion of the existing fence line to accept a new shelter on-grade. (See attached Plans.)

F) The existing tower(s) and their respective foundations will not be touched and hence will not be impaired by the proposed installation of a new shelter on-grade nearby. (See attached Plans.)

The above demonstrate the proposed work fully qualifies as an exempt modification and hence should be allowed to proceed as shown on the submitted plans.

Melanie Bachman, Executive Director May 13, 2019 Page 3 of 3

Enclosed for your review and consideration are the following which are incorporated into and made part of this Notice:

- 1) Landowner & Tower Owner Authorization (Same entity owns both)
- 2) Subject Property Field Card
- 3) Subject Property Tax Map
- 4) Subject Property Deed
- 5) Prior City Variance Decisions
- 6) FCC ASR Registration
- 7) Facility Sound Assessment
- 8) Site Plans and Elevation Drawings

Verizon Wireless respectfully requests your concurrence that the changes proposed constitute an exempt modification requiring no further procedural review on behalf of the Connecticut Siting Council. Verizon Wireless looks forward to applying for a building permit to complete this modification so that it may improve its wireless services for the benefit of the residents, businesses and visitors in the City of Norwalk.

Thank you.

Sincerely,

Gehring & Associates, LLC

By

Carl W. Gehring, on behalf of Cellco Partnership d/b/a Verizon Wireless

Attachments & Enclosures

cc: Mayor Harry Rilling - City of Norwalk (Full Copy by USPS) Mr. Steven Kleppin - Director of Planning, City of Norwalk (Full Copy by USPS) CTI Towers Assets II, LLC - Landowner & Tower Owner (Full Copy by USPS)

LETTER OF AUTHORIZATION

CTI Towers Assets II, LLC 5000 CentreGreen Way, Suite 325 Cary, NC, 27513

February 21, 2019

Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Building and Code Enforcement Zoning Commission Zoning Enforcement and Zoning Board of Appeals Planning Committee 125 East Avenue Norwalk, CT, 06851

Re: <u>Authorization of Cellco Partnership d/b/a Verizon Wireless</u>

Dear Ladies and Gentlemen:

The undersigned, as owner of premises in the City of Norwalk, located on Shirley Street, further described in the Norwalk Office of the Town Clerk at Volume 8425, Page 253 (the "<u>Property</u>"), hereby authorizes Verizon Wireless and Gehring & Associates, LLC and its employees, agents, and consultants, to seek approval from the Connecticut Siting Council and the City of Norwalk (including, but not limited to, building permit, zoning relief, site plan review, and special permit) in connection with the construction and installation of a wireless communications facility on the Property.

Sincerely, By

CTI Towers Assets II, LLC Name: Anthony F. Peduto Title:Chief Executive Officer

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After recording: return to: CTI Towers Assets II, LLC Attn: Carrie Larson 38 Pond Street, Suite 305 Franklin, MA 02038

AFTER RECORDING, RETURN TO: Fidelity National Title Group 7130 Gien Forest Dr., **Ste. 300** Richmond, VA 23226

Special Warranty Deed

On August 1, 2016, CONNOISSEUR MEDIA OF CONNECTICUT, LLC, a Delaware limited liability company ("Grantor") with an address of 180 Post Road East, Suite 201, Westport, CT 06880_for the consideration paid, grants to CTI TOWERS ASSETS II, LLC, a Delaware limited liability company ("Grantee") with an address of 38 Pond Street, Suite 305, Franklin, MA 02038, with SPECIAL WARRANTY COVENANTS:

All the certain tract, piece or parcel of land, with the buildings, transmission towers, appurtenant equipment, and other improvements thereon, and all appurtenances thereof, situated in the Town of Norwalk, County of Fairfield and State of Connecticut, containing in area 6.329 acres and consisting of two contiguous tracts.

THE FIRST of said tracts is fully shown and delineated as "Area = 5.91 acres" on a certain map or survey entitled, "Map Showing Survey of Property being Conveyed by Frank J. Murphy to The Norwalk Broadcasting Company at Norwalk, Conn." certified substantially correct Walter K. Goodhue, Civil Engineer, Darien, Conn., January 23, 1947, and one file in the office of the Town Clerk of the Town of Norwalk as Map #2779.

THE SECOND tract is fully shown and delineated as "Area = 0.419 Acres" on a certain map or survey entitled "Map Showing Survey of Property Being Conveyed to Norwalk Broadcasting Company, Norwalk, Connecticut" certified substantially correct, Walter K. Goodhue, Civil Engineer, New Canaan, Conn. May 02, 1949, and on file on the Office of the Town Clerk of the Town of Norwalk as Map #3131.

TOGETHER with a right of way for all lawful purposes in, over, and upon a certain roadway shown on a certain map entitled, "Map Showing Right of Way of Norwalk Broadcasting Company, Inc., Acquired from Patsy Cutrone, Samuel W. Hoyt, Jr., Co., Inc., June, 1949" which said map is on file in the Office of the said Town Clerk of

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Book8425/Page253

Page 1 of 2

Norwalk as Map #3132. Said right of way being in common with the original grantor and others to whom a similar right of way has been or may hereafter be granted, as set forth in a Right of Way Agreement executed by Patsy Cutrone and recorded on July 15, 1949 in Book 344 at Page 85 of the Norwalk Land Records.

Tax Parcel No. 5-58-43-0

The Grantor does covenant with Grantee that Grantor is lawfully seized in fee simple of the above Property, and has the right to sell and convey the same, and that Grantor shall warrant and defend title unto the Grantee, and his heirs and assigns, against all claims by or through Grantor.

Witnessed by:

SSI

CONNOISSEUR MEDIA OF CONNECTICUT, LLC

Name: Michael O. Driscoll Title: Executive Vice President and Chief Financial Officer

State of Connecticut:

County of Fairfield:

Personally appeared, Michael O. Driscoll, as aforesaid, signer of the foregoing instrument and acknowledged the same to be his/per free act and deed as such $\frac{\epsilon_{VP/2}}{\epsilon_{Fo}}$ the free act and deed of said limited liability company, before me.

I more Herma

Commissioner of the Superior Court Notary Public

Grantee's Address:

CTI Towers Assets II, LLC 38 Pond Street, Suite 305 Franklin, MA 02038 LENORE HERMANN NOTARY PUBLIC

ZONING BOARD OF APPEALS CERTIFICATE OF VARIANCE

Variance Number 83-0707-01

I, Martin Maier, Zoning Inspector for the City of Norwalk do hereby certify that a public hearing was held on July 7, 19 83 by the Zoning Board of Appeals on the following application.

HANSON COMMUNICATIONS, INC. for a variance of the use and height restrictions of the "B" Residence zone regulations in order to allow the erection of a 336 foot radio transmission tower with a 30' pole thereby expanding an existing nonconforming use. Property located at Shirley Street. Tax map District 5, Block 58C, Lot 43.

The owner of the land affected is Hanson Communications, Inc.

In determination of the above matter the Zoning Board of Appeals adopted the following resolution effective July 29, 19 83

WHEREAS, the applicant's radio station renders a very valuable community service recognized in prior variances and Court decisions as well as by members of the Board since the 1950's; and WHEREAS, the applicant owns a parcel of property 64 acres in size where two radio towers are now constructed; and WHEREAS it would be virtually impossible to find a big enough piece of property within the limited window within which the antenna must be located to comply with FCC limits, I would find a hardship would exist if the applicant were prohibited from putting up a tower that is needed for its operation and I, therefore, move for the granting of the variance on the condition that the applicant erect fencing around the base of the new tower as well as the existing towers which is more adequately designed to keep access away from the towers especially for children and vandals and with the fact being noted in the record that the applicant has agreed to be adsolutely responsible for any injury or damage the tower might cause.

Executed at Norwalk this 17th

day of

19 83

Zoning Inspector

October

THE ZONING BOARD OF APPEALS OF THE CITY OF NORWALK

File # 83-0707-01

At a meeting of the Board held on	July 7, 1983	the
application of Hanson Commun	ications, Inc.	
which was heard at the public hearing	, held by the Zoning B	oard of
Appeals on July 7, 1983 w	las:	

	Granted. Effective date
X	Granted with conditions. Effective dateJuly 29, 1983
	Appeal upheld.
	Denied.
	Denied without prejudice.
	Reserved. Pending decision on
	Postponed to
\Box	Continued to
	Withdrawn.
	Extension granted to
	Other.

Conditions (where applicable):

The applicant must erect fencing around the base of the new tower, as well as the existing towers, which is more adequately designed to keep access away from the towers especially for children and vandals. Noted on the record is the fact that the applicant has agreed to be absolutely responsible for any injury or damage

the tower might cause.

ZONING BOARD OF APPEALS

cc: Atty. Harry H. Hefferan, Jr.

Mathew Caiati Chairman

IMPORTANT: Necessary permits must be obtained within 180 days of the date of action of this Board in granting the petition. Please read enclosed letter about recording fee.

START S. TO GERGE CHILLES

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An ensemblash monthly of the Zoning board of appeals of the City of Nervalk, Conn., wes beld on April 16, 1936, in the office of the Building Inspector, City Bell, South Servalk, Conn., with (Hairman Erest C. Albia presiding. The meeting was called to order at 3:00 $n_{\rm eff}$, (EDT), and at roll call the following members were present: Cheirman Albia and Meeore. John Howard, Rolf Hurup, Regineld Smith, and Alois Weber.

The meeting was called high reference to the

APPLICATION OF BORMALK BROADCASTING OD., 100., owner, for a penalt to extend a variance horebolics granted on this property by erecting an addition of 30 ft. by 40 ft. to the present building to house complete radio breadcosting facilities, including studies, record storage, lavatories and executive offices; all in accordance with maps and plans to be filed herein prior to the hearing. Premise situated off Shirley Street, Nest Norvalle, in a Residence "B" Zone, shown on the Fifth Disprict Tax Map as Block 563 Let 43.

Ar. Neward presented a resolution granting the application. Various eachdments were offered by other members of the Board.

Mr. Weber: "I move that the applicant's request to have the application mended to conform to the plan submitted be approved." The motion was seconded by Mr. Howard, and on roll call the vote was as follows:

> Yea Mr. Howard Mr. Hurup Mr. Smith Mr. Weber Mr. Albin

Chairman Albin declared the application amonded to conform to the plan submitted ov March 19, 1956.

Further anendments were suggested to Mr. Howard's resolution, and were accepted by him as maker of the motion. The final resolution read as follows:

WHEREAS, this matter was originally before this Board on an application dated October 21, 1955, and after public hearing this Board granted by unanizous vote on December 1, 1955, the variance with an effective date of December 14, 1955, subject to specific restrictions. Subsequently on append the Board's action was reviewed by the Court of Common Pleas and reversed because of a defect in the original application. The Court's opinion read in part, "The Board granted the variance with Laudable conditions," and "it would appear from the record that the hardship qualification has been satisfied."

During the pendency of the present hearing a defect in the new application was noted in that the building as applied for was approximately 200 square fost smaller than the plan proposed. Despite objection, founded for the opposition stated that his clients were equally opposed to either size, building. The board has unanhausly approved amendment of the application to conform with plan submitted on Earch 19, 1956.

During the current bearing no new evidence was offered to after the Board's opinion as concurred in by the Court of Common Pleas.

In consequence, we reaffirm, effective April 20, 1956, our unanimous resolution of December 1, 1956, as follows:

"Whereas radio is an essential community service not contemplated by our zoning regulations, unnecessary hardship exists. The proposed

APRIL 16, 1956

AS,Y

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site has, by virtue of a prior variance, been used for some years for the bransmission towers and angineering work of the radio station. Therefore the eraction of an attractive addition to the present building to make it rescaled a residence rill be an improvement in sightliness, and in hermony with the seighborhood. The cristing drainage problem in the area will not be substantially increased by this use, but any stampt. To utilize the land under the residence "B" definition would serie out aggravate the drainage problem. Approval of the application is granted subject to the following restrictions:

no. 2 mia

1. Completion of Landscaping by October 1, 1956, according to plan as submitted --- brees shall be 6 feet high or more at sime of planting, and brees dying before October 1, 1957, shall be replaced.

2. There shall be no subdivision of the existing tract while used for radio transmission.

 0.32^*

3. The proposed building shall be of the residence type in exterior appearance and size."

The resolution was seconded by Mr. Manup, and on roll call the rold was as follows:

and the second second second second

ica Mr. Howard Mr. Hurup Mr. Solth Mr. Nober Mr. Albin

Mr. Howard further moved that the memorandum of the decision of the Court of Cosmon Fleas be made a part of the record. The motion was seconded by Mr. Weber, and on roll call the vote was an follows:

Mr. Hoimrd Mr. Hurup Mr. Enith Mr. Weber Mr. Meber Mr. Albin

Chairman Albin declared the application granted, effective April 20, 1955, and the memorandum of declared of the Court of Cosmon flear made a part of the record.

On motion duly made by Mr. Howard, seconded by Mr. Hurup, and carried manimodally, the meeting was adjourned at 3:55 p.m. (EST).

ATTESTA Bace W. Revenden



Facility Sound Assessment



CRAN Hub 6 Shirley Street Norwalk, Connecticut March 30, 2019

Prepared For:

Verizon Wireless New England 20 Alexander Drive Wallingford, CT 06492

Prepared By:

Modeling Specialties 30 Maple Road Westford, MA 01886





Environmental Sound Assessment Norwalk CT CRAN Hub

Background

A Wireless Telecommunications Hub Facility is proposed at an existing utility parcel off Shirley Street in Norwalk, Connecticut. The proposed project involves construction of a new shelter at this site to support future CRAN equipment deployments in the area. The following assessment supports a petition to the Connecticut Siting Council and is based on the standards provided by the Connecticut Department of Energy & Environmental Protection (CDEEP). Sound levels from the proposed equipment were estimated based on vendor design and measured sound from similar equipment configurations. Sound level modeling techniques were used to estimate the potential impacts at receiving locations. What follows is an analysis of the facility sound using measured ambient data, estimates of the existing equipment sound and detailed proposed equipment configuration using the 3-dimensional noise modeling software package CadnaA by Datakustic.

Overview of Project and Site Vicinity

The Project is located at an existing utility (Commodore Media of Norwell Inc.) 6.39-acre parcel off Shirley Street in Norwalk, CT. Existing facilities at this site include three broadcast transmission guyed towers. One tower hosts two wireless carrier's panel antennas. The proposed project is not directly related to the antennas at this site. It will be used as a Hub for future CRAN facilities that are developed in the area. Figure 1 shows an aerial view of the site and surrounding area. Existing sources of sound in the area include distant traffic and residential activities. While the field survey identified existing mechanical equipment at the site, no sound was noted from the existing equipment at the time of either daytime or nighttime surveys. The proposal represents an exempt modification to an existing telecommunications site, which requires a demonstration of compliance with R.C.S.A. §16-50j-72(b)(2)(C) that the proposed modifications will not "increase noise levels at the site boundary by 6 decibels or more, or to levels that exceed state and local criteria." These criteria are used to evaluate the facility sounds.

The project will be adding a 60-kW emergency standby generator inside a separate room of the proposed shelter. There are currently three smaller generators deployed at the site. All of the generators (individually and combined) are below the 5-mW threshold that would trigger CSC review according to the CSC Generator Filing Requirements Guide (re: C.G.S. §§ 16-50i (f). and 16-50i(a)(3)). Nevertheless, a modeling scenario is provided in this study to address the occasional daytime testing of the four generators.



Figure 1: Aerial Overview of the Site, Measurement Locations, Receptors and Surrounding Area

Noise Analysis: Discussion of Analysis Methods

There are a number of ways in which sound (noise) levels are measured and quantified. All of them use the logarithmic decibel (dB) scale. Following is a brief introduction to the noise measurement terminology used in this assessment.

Noise Metrics

The Sound Level Meter used to measure noise is a standardized instrument.¹ It contains "weighting networks" to adjust the frequency response of the instrument to approximate that of the human ear under various circumstances. One of these is the *A-weighting* network. A-weighted sound levels emphasize the middle frequency sounds and de-emphasize lower and higher frequency sounds; they are reported in decibels designated as "dBA." Figure 2 illustrates typical sound levels produced by sources that are familiar from everyday experience.

The sounds in our environment usually vary with time, so they cannot simply be described with a single number. Two methods are used for describing variable sounds. These are *exceedance levels* and *equivalent levels*. Both are derived from a large number of moment-to-moment A-weighted sound level measurements. Exceedance levels are designated L_n , where "n" can have any value from 0 to 100 percent. For example:

- ♦ L₉₀ is the sound level in dBA exceeded 90 percent of the time during the measurement period. The L₉₀ is close to the lowest sound level observed. It is essentially the same as the *residual* sound level, which is the sound level observed when there are no loud, transient noises.
- L₅₀ is the median sound level in dBA exceeded 50 percent of the time during the measurement period.
- ♦ L₁₀ is the sound level in dBA exceeded only 10 percent of the time. It is close to the maximum level observed during the measurement period. The L₁₀ is sometimes called the *intrusive* sound level because it is caused by occasional louder noises like those from passing motor vehicles. By using exceedance levels, it is possible to separate prevailing, steady noises (L₉₀) from occasional, louder noises (L₁₀) in the environment.
- The *equivalent level* is the level of a hypothetical steady sound that has the same energy as the actual fluctuating sound observed. The equivalent level is designated L_{eq}, and is also A-weighted. The equivalent level is strongly influenced by occasional loud, intrusive noises.

¹ *American National Standard Specification for Sound Level Meters*, ANSI S1.4-1983, published by the Standards Secretariat of the Acoustical Society of America, Melville, NY.



Figure 2: Typical Sound Levels from Everyday Experience

When a steady sound is observed, all of the L_n and L_{eq} are equal. This analysis is based on the background or L_{90} metric. All broadband levels represented in this study are weighted using the A-weighting scale.

In the design of noise control treatments, it is essential to know something about the frequency spectrum of the sound of interest. Noise control treatments do not function like the human ear, so simple A-weighted levels are not useful for noise-control design or the identification of tones. The frequency spectra of sounds are usually stated in terms of *octave band sound pressure levels*, in dB, with the octave frequency bands being those established by standard.² The sounds in the community were measured in 1/3 octave band levels. The sounds expected as a result of this project have been evaluated with respect to the octave band sound pressure levels as well as the A-weighted equivalent sound level. For simplicity they are summarized in this report as A-weighted levels.

Noise Regulations and Criteria

Sound compliance is evaluated on two bases: the extent to which Federal and State regulations or guidelines are met, and the extent to which it is estimated that the community is protected from excessive sound levels. The governmental regulations that may be applicable to sound produced by activities at the Site are summarized below.

• Federal

Occupational noise exposure standards: 29 CFR 1910.95. This regulation restricts the noise exposure of employees at the workplace as referred to in Occupational Safety and Health Administration requirements. The facility will emit only occasional sounds of modest levels, as demonstrated by this study.

• State

The state of Connecticut (Connecticut Department of Energy & Environmental Protection or CDEEP) regulates noise at Regulation Title 22a, Sections 69-1 through 69-7.4, Control of Noise. The project is a Class B (Utility- Communications) emitter. The land use is Utility in a residential Zone B. The site is surrounded by residential land uses whose property lines were evaluated as Class A Noise Receptors. An excerpt from the City of Norwalk Zoning Map is shown in Figure 3. The details of the CDEEP performance criteria are shown in Table 1 based on the source and receiving land uses.

The proposal represents an exempt modification to an existing telecommunications site under Regulations of Connecticut State Agencies, specifically R.C.S.A. §16-50j-72(b)(2)(C), which requires a demonstration that the proposed modifications will not "increase noise levels at the site boundary by 6 decibels or more, or to levels that exceed state and local criteria."

² American National Standard Specification for Octave, Half-octave and Third-octave Band Filter Sets, ANSI S1.11-1966 (R1975).



Figure 3: Excerpt from the City of Norwalk Zoning Map

	Receptor's Zone					
Emitter's Zone	Industrial	Commercial	Residential/Day	Residential/Night		
Residential	62 dBA	55 dBA	55 dBA	45 dBA		
Commercial	62 dBA	62 dBA	55 dBA	45 dBA		
Industrial	70 dBA	66 dBA	61 dBA	51 dBA		

Table 1: Connecticut DEEP Noise Standards, by Zoning District

Adjustments for high background noise levels or impulse sounds.

1. In those individual cases where the background noise levels caused by sources not subject to these regulations exceed the standards contained in this chapter, a source shall be considered to cause excessive noise if the noise emitted by such source exceeds the background noise levels by five dBA, provided that no source subject to the provisions of this chapter shall emit noise in excess of eighty (80) dBA at any time, and provided that this section does not decrease the permissible levels of other sections of this chapter.

2. No person shall cause or allow the emission of impulse noise in excess of eighty (80) dB peak sound pressure level during the nighttime to any residential noise zone.

3. No person shall cause or allow the emission of impulse noise in excess of one hundred (100) dB peak sound pressure level at any time to any zone.

• Local

The City of Norwalk regulates noise regulation at Chapter 127 to protect, preserve, and promote the health, safety, welfare, and quality of life for the citizens of Norwalk through the reduction, control, and prevention of noise. While no quantitative criteria were identified, certain activities like construction, were limited. Daytime periods are defined as:

Monday - Friday: 7:00 am - 8:00 pm Saturday: 8:00 am - 8:00 pm Sunday: 9:00 am - 8:00 pm Federal and state holidays: 9:00 am - 8:00 pm

Existing Community Sound Levels

A site survey and noise measurement study were conducted for the facility on March 1, 2019. The ambient sound fluctuates through the day and night so measurements were made during the daytime and in the quietest hours of the night (usually midnight to 5:00 am). A new source of sound tends to be noticed most during conditions that are otherwise quiet. Because of this, the ambient sound survey was scheduled under conditions that represented quiet sound levels for the area.

Attended sound level measurements were made using Rion NA-28 sound level meters. The measurements create a baseline community sound level and captured the frequency-specific character of the sound. The meter was mounted on a tripod approximately 5 feet above the ground. The microphone was fitted with factory recommended foam windscreen. The meter was programmed to take measurements for 20 minutes and then store processed statistical levels. The meter meets the requirements of ANSI S1.4 Type 1 – Precision specification for sound level meters. The meter was calibrated in the field using a Larsen Davis Cal-250 acoustical calibrator before and after the sessions. The field calibrations indicated that the meters did not drift during the study. The spectrum analyzer complies with the requirements of the ANSI S1-11 for octave band filters.

Results of the Ambient Survey

The results of the ambient sound level measurements are summarized in Table 2. The Leq represents the "average" sound level while the L_{90} represents the "background" sound level. Both are shown in this study to characterize the existing sound field. Comparing the Leq levels (including all sounds) to the L90 levels (quietest 10% of samples) illustrates the sound character of the area. Baseline levels are affected by community conditions, meteorology, seasons, insects and traffic patterns. Because the measured levels are dominated by distant traffic patterns, they can be expected to fluctuate. The measurements indicate that the existing nighttime sound levels are currently within the residential target levels of the Standards for daytime sounds without any contribution from the existing site equipment. Because of the seasonal and weather conditions selected for the survey, the measured levels exclude precipitation, significant wind, insects and traffic patks.

Location	Time	Period	L _{eq}	L ₉₀
Shirley Gate	11:25 AM	Day	56 dBA	40 dBA
Rockmeadow P/L	11:49 AM	Day	56 dBA	42 dBA
Shirley Gate	4:03 AM	Night	38 dBA	33 dBA
Rockmeadow P/L	4:35 AM	Night	39 dBA	33 dBA

 Table 2:
 Ambient Sound Levels Measured on March 1, 2019

Consistent with most residential communities, the daytime is affected by elevated traffic volumes on local and distant roadways along with local daytime activities. Nighttime levels tend to be lower because of lower traffic volumes and the lack of neighborhood activities.

Existing Sounds from the Current Utility Facilities

The existing facility includes the broadcast equipment and two separate wireless carrier packages of equipment. There are no continuous sources of sound at the facility. No sources were observed at the time of the field survey. The routine sources that are expected at the facility were identified as part of the survey. The existing broadcast shelter had what appeared to be 2 residential style window air conditioners. One unit appeared to be sized at about 12,000 btu which is on file (from

field measurements at another site) to be 59 dBA at a distance of 23 feet. Another unit appeared to be sized at about 6,000 btu which is also on file to be about 56 dBA at 23 feet. The units are on the north side of the existing broadcast shelter.





The broadcast shelter is also supported by a YORK split system condenser. These units typically have variable speed fans which operate under full load at a sound level of 60 dBA at a distance of 23 feet. Two of these units are located on the east side of the broadcast shelter. As redundant units, they are not expected to both operate at any given time.

The AT&T Wireless shelter is cooled by two Bard wall-mount air conditioners, one mounted on the north end and one mounted on the south end of the shelter. These units have been measured under full load to emit 63 dBA at a distance of 23 feet.

The Verizon Wireless existing shelter is also fitted with wall-mount air conditioners. They are similar to the Bard units but are model Marvair II, manufactured by Marvair. They have been measured to operate at a sound level of 61 dBA at 23 feet.



Each of these HVAC sources operate on an as-needed basis for their

respective shelter. The heat loading within a shelter is a function of the ambient temperature, solar radiation and heat from electrical equipment. For these reasons, the need for cooling is usually limited to daytime periods. Only rarely on the hottest nights of the summer is the cooling equipment needed to cycle on during the night to protect the electronics.

Expected Sounds from the Proposed Installation

The proposed installation has been designed with significant attention to protecting the community sound environment. Most of the equipment associated with the facility produces no significant sound. This analysis represents the most likely sound levels to be expected as a result of the normal operation of the facility using manufacturer's data and measurements of similar equipment at other wireless installations. The facility layout and elevation plans are shown in Figures 4 and 5.

Sources of Project Sound

There are several routine sources of modest sound at the facility. The wall-mount HVAC units have fans that cycle filtered ambient air through the shelter to provide efficient cooling. The fan-only and the fan with heater sound is typically not noticed outside of the shelter area. The ventilation system is part of an advanced system of air management that optimizes the use of direct ambient ventilation (DAV). The upgraded configuration is termed "Next Gen" or "Fusion Tec" by the manufacturer. The system increases efficiency, reducing the cooling cycle by providing cooling with ambient air whenever it is practical. When the cooling cycle is needed, the system engages a part load (67%) cooling feature that allows it to operate more quietly and save additional energy. Full load is reserved for the periods when it is needed to protect the shelter electronics.





Figure 4: Layout of the Existing and Proposed Ground Equipment at the Facility



Figure 5: Elevation Sketch of the Proposed Shelter Showing the Vertical Character of the Proposed Shelter

The direct result of the optimized DAV features is a more energy efficient operation. The configuration also reduces the sound emissions in two ways. The cooling compressor is expected to cycle on less frequently. When it cycles on, it often operates at a reduced load with a corresponding lower sound level. Even at full load, it is configured to produce less sound than a traditional wall mount unit. The proposed shelter will be supported by three of the upgraded wall mount units.

A computer model was developed for the facility's sound levels based on conservative sound propagation principles prescribed in the acoustics literature. Each of the facility's potential sources during routine operation was identified. The sound from each source is estimated at the source and at the community receptors. The sum of the contributing sources is used to represent the predicted sound level at the modeled location. Identifying specific receiving locations is a key element of the noise modeling since sound levels decrease exponentially with increasing distance. The distances used in this study represent the distance between the nearest source(s) and the nearest representative sensitive property.

The analysis of sound is based on the contributions of individual sources and propagation losses to the analyzed receptors in representative directions from the facility. As noted, there are usually no nighttime sounds. Only during the warmest summer nights are the existing HVAC units expected to cycle on from time to time at night. This conservative modeling accounts for the equipment that could operate at night to all operate simultaneously. This includes one condenser unit at the existing Broadcast shelter, one window air conditioner at the Broadcast shelter, one wall-mount unit at the existing Verizon shelter, one wall-mount unit at the existing AT&T shelter along with two wall-mount units at the proposed shelter operating on partial load. Results of the modeling are shown in Table 3 and are provided in graphic form in Figure 6. The model accounts for both the shielding from the shelters and also the reflection from the shelters. The residential receptors to the north are closer to the sources and correspondingly higher sound levels.

Receptor	Distance	Facility Nighttime	Criterion	Compliance?
	(ft)	Sound (dBA)	(dBA)	_
Property line, NE1	185	37	45	Yes
Property line, NE2	135	43	45	Yes
Property line, SE	280	40	45	Yes
Property line, South	370	39	45	Yes
Property line, SW1	480	33	45	Yes
Property line, SW2	510	36	45	Yes
Property line, NW1	370	40	45	Yes
Property line, NW2	190	44	45	Yes
Property line, NW3	160	39	45	Yes

 Table 3: Summary of Noise Modeling Results: Potential Nighttime Sources

Infrequently, the generators will be tested to assure their readiness. They are typically remotely tested about one half hour per week. These tests only occur during daytime conditions. The various owners of standby generators test the units on their own schedules. However, in this

conservative analysis, it is assumed that the four backup generators all operate at the same time. Moreover, the full complement of HVAC cooling is also assumed to occur at that time. This represents the facility worst-case sound emissions analyzed at the receptors in representative directions from the facility. Results of the daytime modeling are shown in Table 4 and are provided in graphical summary form in Figure 7. This model also accounts for the shielding and reflection from shelters at the facility.

Receptor	Distance	Worst-Case	Criterion	Compliance?
-	(ft)	Facility (dBA)	(dBA)	-
Property line, NE1	185	45	55	Yes
Property line, NE2	135	53	55	Yes
Property line, SE	280	49	55	Yes
Property line, South	370	46	55	Yes
Property line, SW1	480	41	55	Yes
Property line, SW2	510	41	55	Yes
Property line, NW1	370	45	55	Yes
Property line, NW2	190	50	55	Yes
Property line, NW3	160	47	55	Yes

 Table 4: Summary of Noise Modeling Results: Routine Sources plus Generators

Mitigation Measures

Most of the proposed equipment has no potential of emitting sound. Specific mitigation is needed for the two proposed sources to meet the CDEEP performance goals. The wall-mount HVAC units are of a design that optimizes the use of ambient ventilation air. It also operates at a part load cooling unless full load is needed to protect the shelter equipment. These features significantly reduce the sound from the unit operation. More importantly, the full load cooling is never expected to operate at night. (existing HVAC units only rarely operate at night). Therefore, the proposed shelter is not expected to affect the nighttime sound levels. The proposed generator will be installed inside the shelter. While operating louvers must open to allow radiator cooling air to exhaust and ambient return air to enter. The radiator air louvers will be fitted with a cowling silencer to allow cooling with a reduced sound emission. The return air louver will be fitted with a lined cowling. This is less aggressive treatment than the radiator louver but will reduce the sound of the intake louver. The generator exhaust will also be fitted with a critical grade silencer.

Conclusions

The ambient levels were measured at times that represented quiet conditions for the area. The potential sources of sound at the existing facility were identified and quantified. Sound level modeling techniques were employed to estimate the sound levels at the nearest receptor locations. The proposed communication facility inherently lacks any heavy mechanical equipment that are commonly associated utility or industrial uses. Most of the equipment has no potential to emit sound. There will be several sources of modest sound such as fans and HVAC units. The size of the equipment and character of the sound are similar to HVAC units that support residential uses. Mitigation measures are engineered into the proposed equipment configuration to allow their operation in sensitive environments.

Occasionally, the existing and proposed generators will be tested during the daytime. Each generator will be tested per its owner's maintenance policies. It is common for these to be remotely tested about one half-hour each week. In this conservative analysis, it is assumed that all of the generators will be tested simultaneously. The daytime modeling represents worst-case sound emissions by including all generators along with all shelters being cooled at the same time.

The results of the modeling indicate that the facility cooling systems are expected to meet CDEEP community noise standards even in the rare events that would require nighttime cooling. Therefore, the existing and proposed facility are expected to operate within the standards under all conditions.

The existing generators nor the proposed generator are subject to review by the CSC due to their individual and collective generating capacity well below 5 mW. The daytime testing of the facility units was modeled to assess their potential for substantial adverse environmental effect. The modeling addressed the worst case where all facility cooling plus simultaneous generator operation was compared to the CDEEP noise standards. The facility is expected to operate within the standards even under this worst-case scenario, so no substantial adverse environmental sound effects are expected.



Figure 6: Graphical Summary of the Facility Routine Sound Sources at Receptor Locations



Figure 7: Graphical Summary of the Combined Facility Sound Sources (Routine plus Generators) at Receptor Locations

ASR Registration Search Registration 1057290

Map Registration

Registration Detail

Reg Number	1057290	Status	Constructed
File Number	A1047810	Constructed	01/01/1984
EMI	No	Dismantled	
NEPA	Νο		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

 Lat/Long
 41-06-56.0 N 073-26-04.0 W

 City, State
 NORWALK , CT

 Zip
 06850

 Center of
 V

AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level 35.0 Overall Height Above Mean Sea Level

Overall Height Above Mean Sea Leve

149.0

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 12, 21

FAA Notification

FAA Study 2004-ANE-508-OE

Owner & Contact Information

FRN 0022509178

Assignor FRN 0022419329

Owner

CTI Towers Assets II, LLC Attention To: Loren Stearns 38 Pond Street Suite 305 Franklin , MA 02038

Contact

Stearns , Loren Attention To: Loren Stearns 38 Pond Street Suite 305 Franklin , MA 02038

Last Action Status

County FAIRFIELD
Position of

Overall Height Above Ground (AGL)

114.0

Address

Tower in Array

Overall Height Above Ground w/o Appurtenances 102.0

6 SHIRLEY ST

FAA Issue Date 06/30/2004

Owner Entity Limited Liability Company Type

Assignor ID L01787809

P: (508)440-5780 F: (508)440-5765 E⁻ lstearns@ctitowers.com

P: (508)440-5780 F: (508)440-5765 E: lstearns@ctitowers.com

Status	Constructed	Received	08/19/2016
Purpose	Change Owner	Entered	08/19/2016
Mode	Interactive		

Related Applications

03/30/2018	A1100583	- Modification (MD)			
08/19/2016	A1047810	- Change Owner (OC)			
10/07/2014	A0923845	- Admin Update (AU)			
Related applications (13)					

Comments

Comments

None

History

Date	Event
08/20/2016	Registration Printed
08/20/2016	Change of Ownership Letter Sent
08/19/2016	Change of Ownership Received
All History (32)	

Automated Letters

08/20/2016	Authorization, Reference
08/20/2016	Ownership Change, Reference 924298
10/08/2014	Authorization, Reference
All letters (14)	



Verizon NORWALK CT CRAN HUB



LOCATION MAP (NTS)

ARCHITECTURAL & ENGINEERING FIRM TECTONIC ENGINEERING CONSULTANTS P.C. 1279 ROUTE 300 NEWBURGH, NY 12550 PHONE: (845)567-6656 CONTACT: EDWARD IAMICELI, P.E.

6 SHIRLEY STREET NORWALK, CT 06850 ZONING DRAWINGS MAY 7, 2019

SITE ADDRESS:	6 SHIRLEY STREET NORWALK, CT 06850
PROPERTY OWNER:	CTI TOWERS ASSETS II, LLC 5000 CENTREGREEN WAY, SUITE 325 CARY, NC 27513
APPLICANT:	VERIZON WIRELESS
LATITUDE:	41° 06' 56.74"± N (NAD 83)
LONGITUDE:	73° 26' 03.11"± W (NAD 83)
ELEVATION:	126'± AMSL
JURISDICTION:	CITY OF NORWALK
PARCEL ID NO.:	5-58-43-0
ZONING DISTRICT:	В



VERIZON WIRELESS PROJECT MANAGER JOHN P. ROMANO ENGINEER III - SPEC-CONSTRUCTION VERIZON - NEW ENGLAND 20 ALEXANDER DRIVE WALLINGFORD, CT 06492 PHONE: (203) 858-5500 JOHN.ROMANO@VERIZONWIRELESS.COM

ELECTRIC COMPANY EVERSOURCE (CL&P) 107 SELDEN STREET BERLIN, CT 06037 PHONE: (888)544-4826

LANDLINE TELEPHONE COMPANY FRONTIER COMMUNICATIONS 401 MAIN AVENUE NORWALK, CT 06851 PHONE: (800)921-8101

CARY, NC 27513

ZONING DRAWINGS

- Z100 OVERALL SITE PLAN/ABUTTERS PLAN
- Z101 PROPOSED SITE PLAN Z301 BUILDING ELEVATION
- Z302 BUILDING SECTIONS
- Z501 CIVIL DETAILS
- Z502 STANDARD DETAILS

VICINITY MAP (NTS)

LANDOWNER OF PARCEL CTI TOWERS ASSETS II, LLC 5000 CENTREGREEN WAY, SUITE 325



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RIZON WIRELESS GENERATOR TAP BOX	Б			
RIZON WIRELESS 24" X 36" TRAFFIC GRADE PULL BOX RIZON WIRELESS DARK FIBER ROUTED				
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6

2. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO

4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND verizon THIS DRAWING WAS PREPARED SOLELY FOR THE USE OF

VERIZON WIRELESS AND MUST ONLY BE USED BY VERIZON WIRELESS EMPLOYEES, CONTRACTORS, AND VENDORS WHILE PERFORMING THE WORK SHOWN ON THIS DRAWING. ANY OTHER USE OF THIS DRAWING IS FORBIDDEN.



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