STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
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Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

June 27, 2024

Kenneth C. Baldwin, Esq.
Robinson + Cole
280 Trumbull Street
Hartford, CT 06103-3597
kbaldwin@rc.com

RE: **EM-VER-059T-231020** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1294 Pleasant Valley Road, Groton, Connecticut. **Request for Project Change.**

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) is in receipt of the correspondence dated June 27, 2024 and associated Professional Engineering Letter (PEL) performed by SBA Communications Corporation dated June 10, 2024 and stamped and signed by Anatha B. Shanubhogue. Submission of the PEL eliminates the requirements included in Condition No. 2 of the Council's November 27, 2023 decision letter and the portion of Condition No. 4 requiring documentation certified by a Professional Engineer that its installation complied with the recommendations of the Structural Analysis.

The Council hereby acknowledges the submission of the PEL.

This acknowledgement applies only to the project change in the correspondence dated June 27, 2024.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/ANM/laf

c: The Honorable Rachael Franco, Mayor, Town of Groton (rfranco@groton-ct.gov)
John Burt, Town Manager, Town of Groton (jburt@groton-ct.gov)

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June 27, 2024

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

Re: **EM-VER-059T-231020 – 1294 Pleasant Valley Road, Groton, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") recently received the attached June 10, 2024, Professional Engineering Letter ("PEL") from SBA's engineering department ("SBAE"). The PEL states that Section 15.5 Evaluation of changed conditions of the TIA-222-H code allowed the elimination of the foundation modifications noted in the August 02, 2023, Structural Analysis ("SA") previously filed.

The PEL referenced the 2022 passing SA (passing baseline SA). The baseline SA was performed in 2015 IBC/2018 CT State Building Code ("CSBC"), referencing the TIA-G standard for cell towers. The TIA-G standard was the governing code in 2022. The only change in load conditions between the passing baseline SA and the PEL is the minor addition of the four radio filters with a total projected area of 2.08 sq. ft and 17.6 pounds on the tower.

In 2023, when TES, SBAE's partners, failed the foundation pursuant to the most recent code (2021 IBC/2022 CSBC and TIA-H), it overlooked Section 15.5 Evaluation of changed conditions, which states that conformance to the newer TIA-H code is not required because the changed condition is deemed insignificant when compared with the 2022 passing baseline SA. Please refer to the PEL, which explains the insignificant changed conditions in the TIA code. In short, the 2023 failing foundation should not have been completed due to the insignificance of the changed conditions.

Please note that as shown on page 5 of the July 10, 2023, Antenna Mount Analysis, no modifications to the existing mount are required.

We, therefore, respectfully request that Condition No. 2 and the need for compliance with the SA referenced in Condition No. 4 of the Council's November 27, 2023 approval letter be removed. Please feel free to contact me with any questions.

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Alex Tyurin, Verizon Wireless

SBA Communications Corporation
8051 Congress Avenue
Boca Raton, FL 33487-1307

T + 561 995 7670
F + 561 995 7626

sbasite.com

June 10, 2024

Re: 150 ft. Monopole
SBA Site Number: CT13075-A
SBA Site Name: 5000248045 / GROTON 2 CT
Carrier Name: Verizon (App#: 232518, v2)
Site Address: 1294 Pleasant Valley Road North, Gorton, Connecticut 06340
SBA Project #: CT13075-VZW-052824 Rev. 01

This letter will summarize the results of our engineering determination on the adequacy of the above-referenced structure to support the proposed loading safely. For more details, refer to the recent passing structural analysis (App # 198611, v1, TES, Project No. 130842, dated 6/27/2022).

Our Engineering determination was based on comparing the existing Verizon loading (App # 198611, v1) and the proposed Verizon loading (App # 232518, v2) listed in this letter based on percentile changes.

Current analysis criteria:

1. Governing Code; 2021 IBC, 2022 CSBC
2. Vult = 126.0 mph (3-sec gust)
3. Exposure Category C
4. Risk Category II
5. Topographic Category 1
6. Crest Height of 0 ft.

Appurtenance Loading

Verizon Existing Loading (App # 198611, v1)

Elevation (ft)	Qty.	Antenna Descriptions	Dimension (L x W x H) (in.)	Weight (lbs)	Projected Area (PA) (ft^2)
150.5	3	Antel BXA-80063/4CF ___ 5° - Panel	47.4 x 11.2 x 4.5	9.9	7.75
149.0	3	JMA Wireless MX06FRO660-02 – Panel	72 x 15.4 x 10.7	57.0	19.58
	3	JMA Wireless MX10FRO660 – Panel	71 x 15 x 7.4	57.3	16.57
	3	Samsung MT6407-77A – Panel	35.06 x 16.06 x 5.51	87.1	7.88
	3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A)	15x 15 x 10	84.4	3.91
	3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A)	15 x 15 x 8.1	70.3	3.61
	3	Samsung CBRS RRH-RT4401-48A	12.1 x 8.5 x 4.5	18.64	1.64
	2	RFS DB-T1-6Z-8AB-0Z	24 x 24 x 10	44.0	5.67
			Total	428.6	66.6

Verizon Proposed Loading (App # 232518, v2)

Elevation (ft)	Qty.	Antenna Descriptions	Dimension (L x W x H) (in.)	Weight (lbs)	Projected Area (PA) (ft^2)
150.5	3	Antel BXA-80063/4CF ___5° - Panel	47.4 x 11.2x 4.5	9.9	7.75
149.0	3	JMA Wireless MX06FRO660-02 – Panel	72 x 15.4 x 10.7	57.0	19.58
	3	JMA Wireless MX10FRO660 – Panel	71 x 15 x 7.4	57.3	16.57
	3	Samsung MT6407-77A – Panel	35.06 x 16.06 x 5.51	87.1	7.88
	3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A)	15 x 15 x 10	84.4	3.91
	3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A)	15 x 15x 8.1	70.3	3.61
	3	Samsung CBRS RRH-RT4401-48A	12.1 x 8.5 x 4.5	18.64	1.64
	2	RFS DB-T1-6Z-8AB-0Z	24 x 24 x 10	44.0	5.67
	4	**Kaelus BSF0020F3V1-1 – Filter**	**10.6 x 10.9 x 3.15**	**17.6**	**2.08**
			Total	446.2	68.7

Results

- Weight % Change = (446.2 - 428.6) / (428.6) = 4.1% < 5%
  - **Insignificant Changed Condition**
- PA % Change = (68.7 - 66.6) / (66.6) = 3.1% < 5%
  - **Insignificant Changed Condition**

Conclusion

As shown in the table above, both the PA and weight changes are insignificant. This also results in the demand-capacity ratio due to a proposed changed condition in all members of the supporting structure (monopole shaft, anchor rod, and base plate) less than 5%. Therefore, per section 15.5 of the TIA, further tower analysis in the current TIA-222-H code is not required. Based on the previous passing SA results, the tower and foundations can safely support the Verizon proposed loading listed in this letter. The proposed filters should be installed in accordance with the mount analysis (MA) instructions.

If you have any questions, please do not hesitate to email JAlqazzaz@sbasite.com.

Sincerely,

Jaffar Alqazzaz
Structural Engineer I

Digitally signed by Anantha Shanubhogue
Date: 2024.06.10 '14:26:35 -04'00