



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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VIA ELECTRONIC MAIL

June 11, 2020

Moriah King
Site Acquisition Specialist
Empire Telecom USA, LLC
16 Esquire Road
Billerica, MA 01862

RE: **EM-AT&T-155-200520** – AT&T notice of intent to modify an existing telecommunications facility located at 1030 New Britain Avenue, West Hartford, Connecticut.

Dear Ms. King:

The Connecticut Siting Council (Council) is in receipt of your correspondence of June 4, 2020 submitted in response to the Council's May 27, 2020 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

s/ Melanie A. Bachman

Melanie A. Bachman
Executive Director

MAB/IN/emr

From: Moriah King <moking@empiretelecomm.com>
Sent: Thursday, June 4, 2020 2:28 PM
To: Robidoux, Evan <Evan.Robidoux@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter for EM-AT&T-155-200520 (New Britain Avenue, West Hartford)

Please find mount analysis attached.

Thank you,

Moriah King, JD
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Vertical Resources Group, Inc.

May 29, 2020

David P. Cooper
Director of Program Management
Empire Telecom
16 Esquire Street
Billerica, MA 01862

Object: RF Mod/IP Repeater Engineering Mount Opinion Letter
Existing ±180' Tall Tower installed AT&T LTE Antenna Platform
Site ID: CT5259 West Hartford – Elmwood
1030 New Britain Ave., West Hartford, CT 06110
Our File : CT5259-IPRepeater

Mr Cooper,

The following are the calculations for the proposed installation of AT&T Mobility's Sirius-XM IP Repeater equipment on existing Valmont 16' platform top mount. Tower in question has been designed and manufactured by PiRod Inc in summer of 2002 for Cellular One.

Code: Connecticut State Building Code 2018, I.B.C. 2018, ASCE7-16, EIA-222-G.
Risk Category: II Exposure Category: 'B' Topographic Category: '1'
Wind Speed: 125 Mph (CT BC ultimate gust), 97 Mph (nominal 3 sec gust CT BC, IBC 1609.3.1)
Ice: ¾"Ø radial Snow: P_G = ground snow load = 30 Psf (CT B.C. 2018)
F_A=qz*G_H*(EPA) EPA = Effective Projected Area = C_A*A_A

Valmont 16' Top Mount Platform Capacity Chart per pipe mount @ elevation 180':

Maximum (EPA)_A per pipe mount EPA= C_A*A_A=(1)*(15.0'²) = 15.0 Sq.Ft.

Maximum (EPA)_A per sector frame EPA= C_A*A_A=(12)*(15.0'²) = 180 Sq.Ft.

Total Valmont design (EPA)_A = 180 Sq.Ft.

Existing & Proposed AT&T Mobility Valmont 16' Top Mount Platform equipment @ elevation 180':

(e) 3-Powerwave 7770	EPA= C _A *A _A =(3)*(1.31)*(4.2' ²) = 16.5 Sq.Ft.
(e) 6-CCI OP65RLCUUH6	EPA= C _A *A _A =(6)*(1.30)*(7.4' ²) = 57.7 Sq.Ft.
(e) 3-Kathrein 800-10965	EPA= C _A *A _A =(3)*(1.26)*(10.9' ²) = 41.2 Sq.Ft.
(e) 6-Powerwave LGP21401 (UMTS850)	EPA= C _A *A _A =(6)*(1.2)*(0.9' ²) = 6.4 Sq.Ft.
(e) 6-Kaelus DBC0061F1V512 (LTE850/700de)	EPA= C _A *A _A =(6)*(1.20)*(0.4' ²) = 2.8 Sq.Ft.
(e) 3-Ericsson RRUS-11 (LTE700bc)	EPA= C _A *A _A =(3)*(1.2)*(2.33' ²) = 8.3 Sq.Ft.
(e) 3-Ericsson RRUS-32b30 (LTEWCS)	EPA= C _A *A _A =(3)*(1.2)*(2.28' ²) = 8.2 Sq.Ft.
(e) 3-Ericsson RRUS-32b2 (LTEPCS)	EPA= C _A *A _A =(3)*(1.2)*(2.28' ²) = 8.2 Sq.Ft.
(e) 3-Ericsson RRUS-32b66 (LTEAWS)	EPA= C _A *A _A =(3)*(1.2)*(2.28' ²) = 8.2 Sq.Ft.
(e) 3-Ericsson RRUS-4478b14 (LTE700B14)	EPA= C _A *A _A =(3)*(1.2)*(1.53' ²) = 5.5 Sq.Ft.
(P) 3- Commscope IONM23SDARS (SXM behind panel)	EPA= C_A*A_A=(3)*(1.2)*(1.36'²)= 1.6 Sq.Ft.
(P) 3- Commscope CBC23SR43 (SXM behind panel)	EPA= C_A*A_A=(3)*(1.2)*(0.52'²)= 0.6 Sq.Ft.
(e) 2-DC64860188F, 1-DC6486008F (Mounted to tower leg)	EPA= C _A *A _A =(0)*(1.2)*(2.0' ²) = 0 Sq.Ft.

Total AT&T Mobility per Platform proposed install EPA = 165.0 Sq.Ft.

Total Valmont Design (EPA)_A = 180 Sq.Ft. > Total AT&T Install equipment (EPA)_A = 165.0 Sq.Ft. **OK!**

The aforementioned existing & proposed AT&T equipment at tower elevation 180' has a smaller exposed surface area than what the Valmont 16' Top Mount Platform was originally designed for (aprox. 91%) and therefore can safely support the proposed AT&T loads.

We trust the information presented in this offer will meet your requirements. However, please do not hesitate to contact us if you have any queries, or require any further information regarding this proposal.

Yours very truly

Miguel Nobre

