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October 6, 2000

Via Federal Express

Mr. Joel M. Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**Re: Notice of Exempt Modification
Siting Council Docket No. 139
Oliver Road
Enfield, Connecticut**

RECEIVED

OCT 10 2000

**CONNECTICUT
SITING COUNCIL**

Dear Mr. Rinebold:

Crown Atlantic Company LLC ("Crown") holds the Siting Council certificate for the existing telecommunications tower and related facility in Enfield, Connecticut (Docket No. 139). Crown intends to allow XM Satellite Radio ("XM") to install antennas and related equipment at the existing facility in Enfield. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Enfield Town Manager, Scott A. Shanley.

The existing facility consists of a 150-foot self-supporting monopole tower and related equipment located off Oliver Road in Enfield. This facility was approved by the Connecticut Siting Council on September 18, 1991. The tower currently supports antennas of Celco Partnership d/b/a Verizon Wireless ("Celco"), Sprint PCS ("Sprint"), Nextel Communications ("Nextel"), and VoiceStream Wireless (formerly Omnipoint Communications, Inc.) ("VoiceStream"). The Council has also approved Crown's request to permit Pagenet to share this facility.

XM proposes to install a single whip-type antenna on the tower at the 95-foot level, and a 25.25 inch diameter, received only, dish antenna attached to the cable ice-bridge adjacent to the XM equipment cabinet. XM equipment will be located on a concrete pad adjacent to the Celco equipment building within the site compound. (See Exhibit A.)

ROBINSON & COLE LLP

Joel M. Rinebold

October 6, 2000

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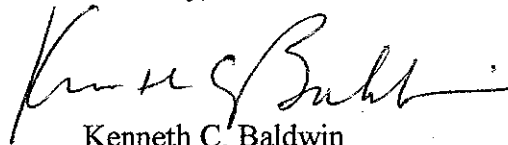
The planned modifications to the Enfield facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the overall height of the tower above the 163-foot height limitation imposed by the Council in their Docket No. 139 Decision and Order. The XM antenna will be mounted at the 95-foot level on the tower. The enclosed tower drawings confirm that the planned modifications will not increase the overall height of the tower.
2. The installation of the XM equipment cabinet on a concrete pad, as shown in Exhibit A, will not require an extension of the site boundaries.
3. The proposed modifications to the facility will not increase the noise levels at the existing facility by six decibels or more.
4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the site boundary for all existing service providers on the tower and Pagenet, as described in the Council's Petition No. 435, would be 16.27% of the FCC Standard for uncontrolled environments as calculated for a mixed frequency site. XM's operations at the Enfield site would add 0.011664 mW/cm^2 (1.166% of the standard). (See Exhibit B.) The calculated "worst-case" power density for the combined operations at the site would therefore be 17.436% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Also attached is a copy of a structural analysis verifying that the tower can accommodate the XM antenna, and some additional information on XM Satellite Radio.

For the foregoing reasons, Crown respectfully submits that the proposed addition of antennas and equipment at the Fairfield facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

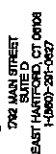
Sincerely,



Kenneth C. Baldwin

KCB/kmd

cc: Scott A. Shanley, Town Manager
Tara K. Rand, Crown Atlantic Company, LLC



THIS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT



PROJEKT N0111A101960.15

DRAWN BY: DFG

CHECKED BY:

ISSUED FOR

9-27-00	PERMITTING
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[illegible]

Figure 1

**THIS SET OF DOCUMENTS
- PREPARED BY NITAC**

OTHER THAN THAT WHICH

IRIGUITY PROHIBITED.

Figure 1

SITE ID: SPROHA

4 OLIVER ROAD
ENFIELD, CONNECTICUT

75000

RECEIVED 1994

CO-07-3 2011.11.22

References

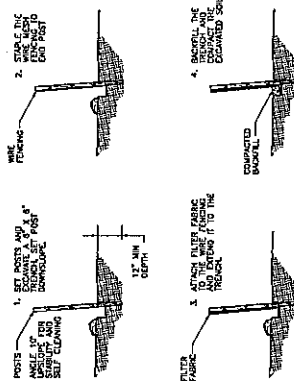
EQUIPMENT

DIAGRAM

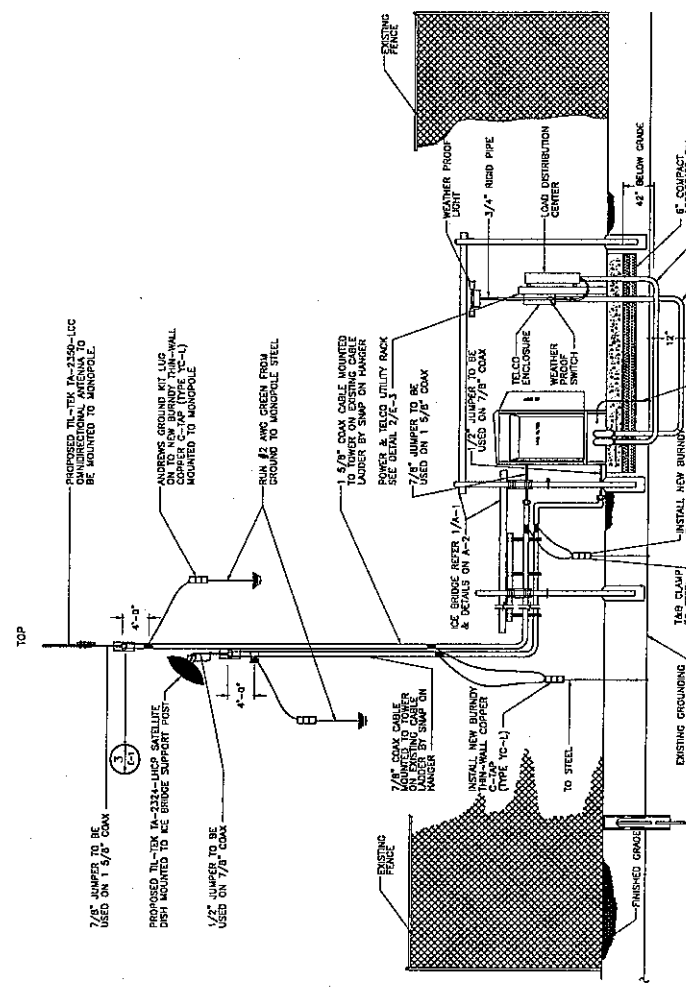
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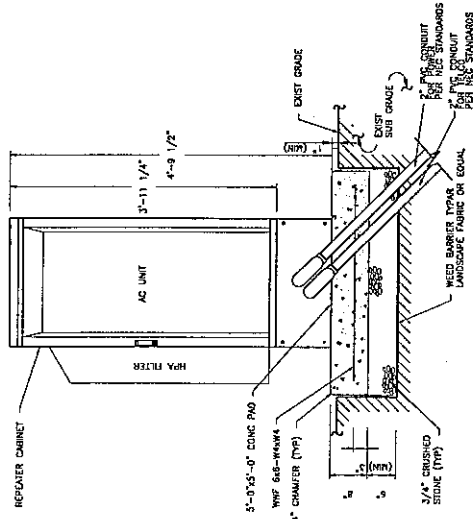
APPENDIX



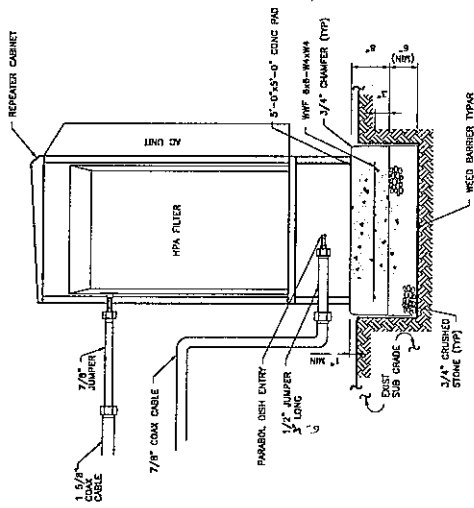
4 SEDIMENTATION CONTROL BARRIER-SILT FENCE



1 TYPICAL EQUIPMENT RISER DIAGRAM

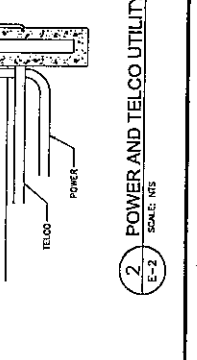
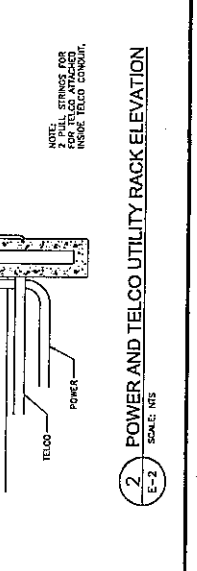
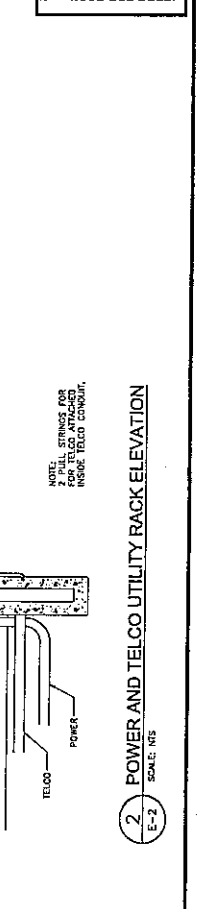
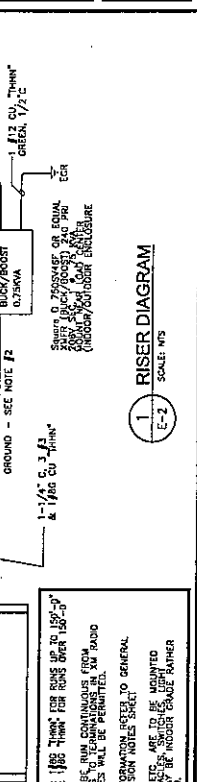


3 REPEATER ON CONCRETE SLAB (FRONT VIEW)



2 REPEATER ON CONCRETE SLAB (SIDE VIEW)

1000



Power Density Calculation for XM Radio's proposed installation on CrownCastle Tower @ Oliver Road, Enfield, CT

XM Radio Internal Site ID: SPR-011A	
Power Density Calculation - Worst Case	50 dBm
Base Station TX Output	100 watts
Number of Tx Channels	2
Antenna Model	TA-2350-DAB panels (3)
Antenna Gain	10 dBi
Cable Type/Size	LDF7-50A 1-5/8" dia.
Cable Length	170 ft
Jumper and Connector Loss	0.86 dB
Cable Loss (per foot)	0.0137 dB/ft
Total Cable Loss	2.33 dB
Total Attenuation	3.19 dB
Total EIRP Per Channel	56.81 dBm
Total EIRP	56.81 dBm
Ground Reflection	1.60
Frequency	2337.49 MHZ 2340.02 MHZ
Antenna Height	95 ft
nsq	10.00
Power Density (S)	0.011664 mw/cm ²
% MPE	1.1664%

Equation Used:

$$\text{Power Density (S)} = (2.56 * 1000 * \text{EIRP}) / (4 * (\pi) * (R)^2)$$