200 North Glebe Road, Suite 1000
Arlington, VA22203-3728

Brian Gaudet
Site Acquisition Agent
22 Shelter Rock Lane
Danbury, CT - 06810

Reference: HPC Development Site: HAR032A/HAR-15-07
Address: 10 Willard Road. Norwalk, CT06851

Date: 25 September 2014

1. This letter will address the additional RF impact that adding SIRIUS XM antennas to the referenced site. Attached are two documents which cover the modeled RF emissions from the site.

2. The first report, "RF Emissions Compliance Report," for the site complied by Sitesafe, uses the antenna patterns for the antennas at the site to calculate the General Public Maximum Permissible Exposure (MPE) on the ground. The total MPE of all the carriers is 0.489% (based on the General Public MPE) based on this modeling, with SIRIUS XM antennas emitting a maximum of 0.015% of the General Public MPE on the ground.

3. The second attachment has the calculations, used by the Connecticut Siting Council, which assumes the maximum antenna gain transmits in a spherical pattern where the worst case results would be at the base of the tower. That calculation, based on the existing antennas, gives a result of 27.18% of the General Public MPE, with the SIRIUS XM antennas emitting 0.21% of the General Public MPE on the ground, using the modeling predictions used by Connecticut Siting Council.

4. In either case, the site is compliant with FCC guidelines. If you have any questions regarding this site, the compliance report, please contact me at 719-434-0700 or dcotton@sitesafe.com.

STATE OF CONNECTICUT
DAVID C. COTTON, JR.
NO. 27481
LICENSED
PROFESSIONAL ENGINEER

David C. Cotton, Jr.
Licensed Professional Engineer (Electrical)
State of Connecticut, PEN.0027481
Sitesafe, Inc. is a subsidiary of Velocitel, Inc. (PEC.0001205)
Date: 2014-September-26

Director, RF Compliance

ATTACHMENT 1

RF EMISSIONS COMPLIANCE REPORT

HPC Development on behalf of Sirius XM

Site: SNET
Address: 10 Willard Road
Norwalk, CT 06851
9/25/2014

Report Status:

Sirius XM Is Compliant

Prepared By:

Sitesafe, Inc.

200 North Glebe Road, Suite 1000 Arlington, VA 22203 Voice 703-276-1100
Fax 703-276-1169

Engineering Statement in Re:
Electromagnetic Energy Analysis
Sirius XM
Norwalk, CT 06851

My signature on the cover of this document indicates:

That I am registered as a Professional Engineer in the jurisdiction indicated; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am an employee of Sitesafe, Inc. in Arlington, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by Sirius XM (See attached Site Summary and Carrier documents), and that Sirius XM's installations involve communications equipment, antennas and associated technical equipment at a location referred to as the "SNET" ("the site"); and

That Sirius XM proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by Sirius XM and shown on the worksheet, and that worst-case 100% duty cycle have been assumed; and

That in addition to the emitters specified in the worksheet, there are additional collocated point-to-point microwave facilities on this structure and, the antennas used are highly directional oriented at angles at or just below the horizontal and, that the energy present at ground level is typically so low as to be considered insignificant and have not been included in this analysis; and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio-frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio-frequency radiation must utilize the standards set by the FCC, which is the Federal Agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," defined as situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and (2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of Sirius XM's operating frequency as shown on the attached antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed Sirius XM operation is no more than 0.015% of the maximum in any accessible area on the ground and

That it is understood per FCC Guidelines and OET65 Appendix A, that regardless of the existent radio-frequency environment, only those licenses whose contributions exceed five percent of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 0.489% of the maximum in any accessible area up to two meters above the ground per OET-65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET-65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier and frequency range indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding Radio Frequency Safety.

In summary, it is stated here that the proposed operation at the site would not result in exposure of the Public to excessive levels of radio-frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307 and that Sirius XM's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals, and approved contractor personnel trained in radio-frequency safety; and that the instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower, or in the immediate proximity of the antennas.

SNET
Site Summary

Carrier	Area Maximum Percentage MPE
ARDIS American Mobile	0.029 %
AT&T Mobility	0.03 %
AT&T Mobility	0.039 %
AT&T Mobility	0.045 %
Clearwire	0.027 %
Greater Norwalk Amateur Radio Club	0.038 %
Metro PCS	0.056 %
SCLP	0.083 %
Sirius XM (Receive Antenna)	0 %
Sirius XM	0.015 %
SkyTel	0.027 %
Sprint	0.049 %
Sprint	0.009 %
T-Mobile	0.023 %
T-Mobile	0.018 %
Composite Site MPE:	0.489 %

sitesafe
rf compliance experts

Attachment 2

Control Number	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Power Den	MHz	S	%MPE	Site Total
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	PageNet			350	0.0033	931	0.6207	0.53%	
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	SNET TMRS			350	0.0020	469	0.3127	0.64%	
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	SkyTel			355	0.0070	931	0.6207	1.13%	
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	RAM Mobile Data			355	0.0006	940	0.6267	0.10%	
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	PageNet 900 MHz			306	0.0294	931	0.6207	4.74%	
EM Omnipoint 10/21/97	Norwalk - 10 Willard Road	PageNet 900 MHz			300	0.0306	931	0.6207	4.93%	
EM-Sprint-103-121120A	Norwalk - 10 Willard Road	Sprint CDMA/LTE	4	778	244	0.0188	1900	1.0000	1.88%	
EM-Sprint-103-121120A	Norwalk - 10 Willard Road	Sprint CDMA/LTE	1	438	244	0.0026	850	0.5667	0.47%	
TS-Clearwire-103-100701	Norwalk - 10 Willard Road	Clearwire	2	153	150	0.0049	2496	1.0000	0.49%	
TS-Clearwire-103-100701	Norwalk - 10 Willard Road	Clearwire	1	211	355	0.0006	23 GHz	1.0000	0.06%	
EM-T-Mobile-103-121018	Norwalk - 10 Willard Road	T-Mobile LTE	2	24	262	0.0003	2100	1.0000	0.03%	
EM-T-Mobile-103-121018	Norwalk - 10 Willard Road	T-Mobile GSM/UM	2	12	262	0.0001	1950	1.0000	0.01%	
EM-T-Mobile-103-121018	Norwalk - 10 Willard Road	T-Mobile UMTS	2	12	262	0.0001	2100	1.0000	0.01%	
EM-CING-103-120329	Norwalk - 10 Willard Road	AT&T GSM	1	296	347	0.0009	880	0.5867	0.15%	
EM-CING-103-120329	Norwalk - 10 Willard Road	AT&T GSM	4	525	347	0.0063	1900	1.0000	0.63%	
EM-CING-103-120329	Norwalk - 10 Willard Road	AT&T UMTS	2	565	347	0.0034	880	0.5867	0.58%	
EM-CING-103-120329	Norwalk - 10 Willard Road	AT&T UMTS	2	875	347	0.0052	1900	1.0000	0.52%	
EM-CING-103-120329	Norwalk - 10 Willard Road	AT&T LTE	1	1117	347	0.0033	734	0.4893	0.68%	
EM-MediaFLO-103-08082	Norwalk - 10 Willard Road	MediaFLO			300		719		3.87%	
TS-XM-103-001012	Norwalk - 10 Willard Road	XM Sat Radio	2	351	350	0.0021	2337.49	1.0000	0.21%	
EM-GNARC-103-040129	Norwalk - 10 Willard Road	American Mobile Com.			350	0.0005	856	0.5707	0.09%	
EM-GNARC-103-040129	Norwalk - 10 Willard Road	GNARC			360	0.0005		0.2000	0.26%	
EM-WSHU-103-051014	Norwalk - 10 Willard Road	WSHU-AM	estimate of emissions at fence line provided by WSHU RF engineer						1.00%	
TS-MetroPCS-103-080523	Norwalk - 10 Willard Road	MetroPCS	7	881	230	0.0419	2130	1.0000	4.19%	27.18%