

EXHIBIT E

EME AUDIT REPORT

SITE NAME:

Cover Street (MCE)

LOCATION:

3851 Schauffele Avenue Long Beach, California

COMPANY:

Coastal Business Group

December 22, 2015



NOTICE

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EME AUDIT REPORT

Site: Cover Street (MCE)

Coastal Business Group 3851 Schauffele Avenue Long Beach, California

INTRODUCTION

Lawrence Behr Associates, Inc. (LBA) has been retained by Coastal Business Group of Long Beach, California to audit compliance with Federal Communications Commission (FCC) guidelines for human exposure to radio frequency (RF) energy at this site. This audit provides a theoretical assessment of the maximum permissible exposure (MPE) limits for uncontrolled exposures around the Verizon Wireless antennas and includes annotated architectural drawings, where required. Our assessment included, where possible, an evaluation of non-Verizon Wireless transmitters that could contribute to the Verizon Wireless MPE limits in accessible areas.

Site mitigation options have been assessed and recommendations made where the MPE could be exceeded in accessible areas.

METHODOLOGY

Using information provided by Coastal Business Group, LBA developed a database of the antenna systems and operating parameters. We then evaluated these systems for electromagnetic environmental (EME) impact potential. This EME assessment was conducted in accordance with FCC guidelines as outlined in OET Bulletin-65¹ using an industry standard computer model².

The computer model was adjusted to reflect actual conditions at the site. An MPE limit of 1.0 milliwatt per square centimeter (mW/cm²) was used for the 800 MHz, 700 MHz and 1700 MHz facilities and an MPE limit of 2.0 mW/cm² was used for the 1900MHz and 2100MHz facilities. MPE limits for nearby antennae used by other tenants for various non-PCS services were used as prescribed in OET Bulletin-65. Areas requiring mitigation, if any, are documented.

² RoofView™ Version 4.15, (1-1-2011) Richard Tell Associates, Inc.



¹ Federal Communications Commission, Office of Engineering and Technology, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin-65, Edition 97-01, August 1997.

The FCC guidelines define two separate tiers of exposure limits. As defined by the FCC, these limits are:

General population/uncontrolled exposure. For FCC purposes, applies to human exposure to RF fields when the general public is exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public always fall under this category when exposure is not employment-related.

Occupational/controlled exposure. For FCC purposes, applies to human exposure to RF fields when persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

ASSESSMENT OF SITE Cover Street (MCE)

- This is an existing 43-foot building rooftop site. Verizon Wireless proposes installing antennas mounted on the roof level at 47 feet above ground level.
- For this study, we considered the entire accessible area to be a general population/ uncontrolled area as defined by the FCC.
- The exposure to non-ionizing radiation at ground level produced by the Verizon Wireless transmit antennae, as shown in Appendix 1.1, MPE Ground Level Analysis Map, will not exceed the FCC MPE general population/uncontrolled limit.
- The exposure to non-ionizing radiation at main roof top level produced by the Verizon Wireless transmit antennae, as shown in Appendix 1.2, MPE Main Roof Level Analysis Map, will exceed the FCC MPE general population/uncontrolled limit only in very small areas not easily accessed. Warning signage in compliance with Verizon Wireless's policy should be installed where indicated.
- Verizon Wireless antenna facilities will not contribute non-ionizing radiation exceeding 5% MPE to any other carriers where their limits are exceeded.



CONCLUSION AND RECOMMENDATIONS

- This Verizon Wireless site will be in compliance with the current FCC RF human exposure regulations if constructed in accordance with the plans provided to LBA.
- LBA recommends that any worker attempting to service this antenna facility have RF awareness training and wear a personal RF monitor.
- LBA recommends placement of RF signage in accordance with Verizon Wireless RF signage policy.
- Procedures described in OET Bulletin-65 should be followed during the performance of work on or near the antenna facilities.

Compliance Statement

Specifically, and in compliance with 47 CFR 1.1310, this report concludes the subject facility, operated as analyzed, would not expose a member of the general public to levels of Radio Frequency Electromagnetic Energy in excess of prescribed limits prescribed by the FCC. Based on input data provided by client or client's representative, there is no other action required of the client to operate in compliance with FCC requirements regarding non-ionizing radiation.

Christopher K. Horne, PhD, Professional Engineer (Electrical), California license expiring March 31, 2017:

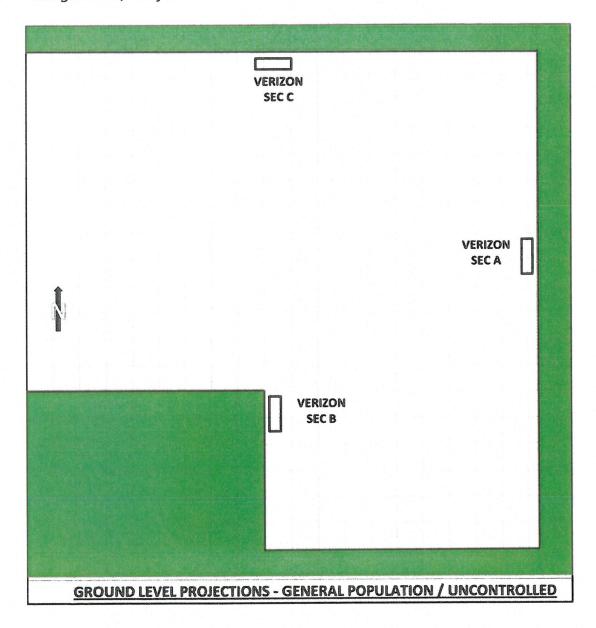




APPENDIX 1.1

MPE Analysis Map (Ground Level)

Coastal Business Group Long Beach, California



Based Upon FCC General Population/Uncontrolled MPE Limits

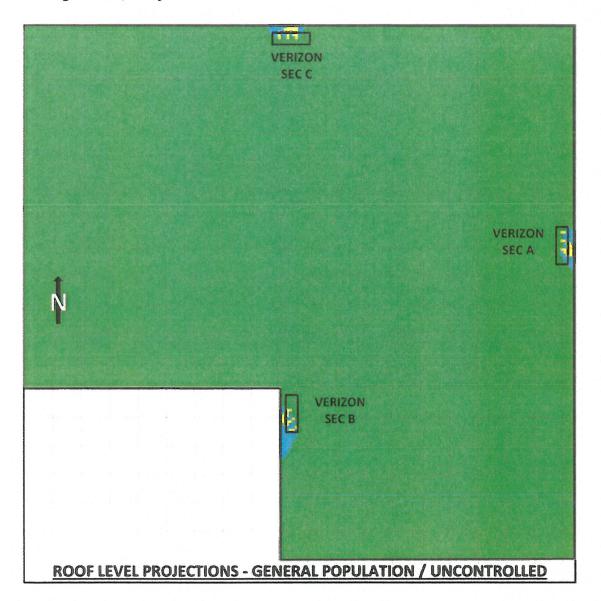
Green <= 5%, Blue <= 50%, Yellow <= 100%, Red above 100%



APPENDIX 1.2

MPE Analysis Map (Roof Level)

Coastal Business Group Long Beach, California



Based Upon FCC General Population/Uncontrolled MPE Limits

Green <= 5%, Blue <= 50%, Yellow <= 100%, Red above 100%



APPENDIX 2.1 Parameters (Ground Level)

Coastal Business Group Long Beach, California

vnt		(MHz)	Trans	Trans	Calc			(ft)		(ft)	dBd	BWdth
um	ID	Freq	Pow er	Count	Pow er	Mig	Model	Z	Туре	Aper	Gain	Pt Dir
1	Verizon sec A 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;110
2	Verizon sec A AWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	16.1	63;110
3	Verizon sec A 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;110
4	Verizon sec A PCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	15.7	65;110
5	Verizon sec A spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0		110
6	Verizon sec B 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;23
7	Verizon sec B AWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	16.1	63;23
8	Verizon sec B 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;23
9	Verizon sec B PCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	15.7	65;23
10	Verizon sec B spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0		230
11	Verizon sec C 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;35
12	Verizon sec C AWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	16.1	63;35
13	Verizon sec C 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	13.7	66;35
4	Verizon sec C PCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0	15.7	65;35
5	Verizon sec C spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	43.0	PANEL	8.0		350

"BWdth PT Dir" is the horizontal bandwidth of the antenna and azimuth
Note: "Z" height is to the base of antenna
Site Operational Parameters



APPENDIX 2.2 Parameters (Roof Level)

Coastal Business Group Long Beach, California

nt		(MHz)	Trans	Trans	Calc			(ft)		(ft)	dBd	BWdth
ım	Ю	Freq	Pow er	Count	Pow er	Mig	Model	Z	Type	Aper	Gain	Pt Dir
1	Verizon sec A 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;11
2	Verizon sec A AWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	16.1	63;11
3	Verizon sec A 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;11
4	Verizon sec A PCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	15.7	65;11
5	Verizon sec A spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0		110
6	Verizon sec B 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;23
7	Verizon sec BAWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	16.1	63;23
3	Verizon sec B 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;23
9	Verizon sec BPCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	15.7	65;23
0	Verizon sec B spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0		230
1	Verizon sec C 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;35
2	Verizon sec C AWS LTE	2100.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	16.1	63;35
3	Verizon sec C 700 LTE	700.00000	60.0	2	120.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	13.7	66;35
4	Verizon sec C PCS LTE	1900.00000	60.0	4	240.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0	15.7	65;35
5	Verizon sec C spare	SPARE	0.0	0	0.0	Commscope	SBNHH-1D65C	4.0	PANEL	8.0		350

"BWdth PT Dir" is the horizontal bandwidth of the antenna and azimuth
Note: "Z" height is to the base of antenna
Site Operational Parameters

