

# Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report

USID# 179030  
Site No. CVL01762  
Burning Bush  
19406 Burning Bush Road  
Nevada City, Nevada 95959  
Nevada County  
39.312917; -120.947258 NAD83  
Monotree

EBI Project No. 6217002589  
January 29, 2018



Prepared for:

AT&T Mobility, LLC  
1265 North Van Buren Street  
Anaheim, CA 92807

Prepared by:



## TABLE OF CONTENTS

<b>EXECUTIVE SUMMARY.....</b>	<b>1</b>
<b>1.0 SITE DESCRIPTION .....</b>	<b>3</b>
<b>2.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS .....</b>	<b>3</b>
<b>3.0 AT&amp;T RF EXPOSURE POLICY REQUIREMENTS .....</b>	<b>5</b>
<b>4.0 WORST-CASE PREDICTIVE MODELING.....</b>	<b>5</b>
<b>5.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN .....</b>	<b>7</b>
<b>6.0 SUMMARY AND CONCLUSIONS.....</b>	<b>8</b>
<b>7.0 LIMITATIONS .....</b>	<b>9</b>

## APPENDICES

<b>Appendix A</b>	<b>Personnel Certifications</b>
<b>Appendix B</b>	<b>Antenna Inventory</b>
<b>Appendix C</b>	<b>RoofView® Export File</b>
<b>Appendix D</b>	<b>RoofView® Graphic</b>
<b>Appendix E</b>	<b>Compliance/Signage Plan</b>

## **EXECUTIVE SUMMARY**

### **Purpose of Report**

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by AT&T Mobility, LLC to conduct radio frequency electromagnetic (RF-EME) modeling for AT&T Site CVL01762 located at 19406 Burning Bush Road in Nevada City, Nevada to determine RF-EME exposure levels from proposed AT&T wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains a detailed summary of the RF EME analysis for the site, including the following:

- Antenna Inventory
- Site Plan with antenna locations
- Antenna inventory with relevant parameters for theoretical modeling
- Graphical representation of theoretical MPE fields based on modeling
- Graphical representation of recommended signage and/or barriers

This document addresses the compliance of AT&T's transmitting facilities independently and in relation to all collocated facilities at the site.

### **Statement of Compliance**

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT's proposed antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

### **AT&T Recommended Signage/Compliance Plan**

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Site compliance recommendations have been developed based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, additional guidance provided by AT&T, EBI's understanding of FCC and OSHA requirements, and common industry practice. Barrier locations have been identified (when required) based on guidance presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014. The following signage is recommended at this site:

- Green INFO I sign posted on or next to the access gate.
- Yellow Tower CAUTION sign posted at the base of the monotree climbing ladder.

The signage proposed for installation at this site complies with AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document and therefore complies with FCC and OSHA requirements. Barriers are not recommended on this site. More detailed information concerning site compliance recommendations is presented in Section 5.0 and Appendix E of this report.

## 1.0 SITE DESCRIPTION

This project involves the proposed installation of up to nine (9) wireless telecommunication antennas on a monotree in Nevada City, Nevada. There are three Sectors (A, B, and C) proposed at the site, with three (3) proposed antennas per sector. For modeling purposes, it is assumed that there will be two (1) LTE antenna in each sector transmitting in the 700 and 1900 MHz frequency ranges, one (1) LTE antenna in each sector transmitting in the 2300 MHz frequency range, and one (1) LTE antenna in each sector transmitting in the 700, 850, and 2100 MHz frequency ranges. The Sector A antennas will be oriented 90° from true north. The Sector B antennas will be oriented 330° from true north. The Sector C antennas will be oriented 210° from true north. The bottoms of the LTE 700/1900 and LTE 2300 antennas will be 116 feet above ground level and the bottoms of the LTE 700/850/2100 antennas will be 115 feet above ground level. Appendix B presents an antenna inventory for the site.

Access to this site is accomplished via a gate in the fence surrounding the monotree. Workers must be elevated to antenna level to access them, so these antennas are not accessible to the general public.

Modeling results were generated based on information from the following materials:

- RFDS – CVL01762 RFDS v1.00.02 dated 3/29/2017
- CDs – CVL01762 100 ZD - Approval Set dated 6/14/2017

## 2.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

**Occupational/controlled exposure limits** apply to situations in which 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. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**General public/uncontrolled exposure limits** apply to situations in which the general public may be 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 would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular

facility and are “time-averaged” limits to reflect different durations resulting from controlled and uncontrolled exposures.

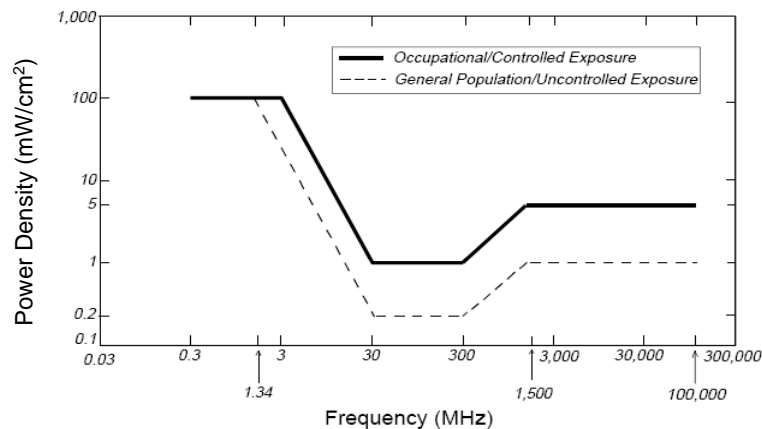
The FCC’s MPEs are measured in terms of power (mW) over a unit surface area (cm<sup>2</sup>). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm<sup>2</sup>) and an uncontrolled MPE of 1 mW/cm<sup>2</sup> for equipment operating in the 1900 MHz frequency range. For the AT&T equipment operating at 850 MHz, the FCC’s occupational MPE is 2.83 mW/cm<sup>2</sup> and an uncontrolled MPE of 0.57 mW/cm<sup>2</sup>. For the AT&T equipment operating at 700 MHz, the FCC’s occupational MPE is 2.33 mW/cm<sup>2</sup> and an uncontrolled MPE of 0.47 mW/cm<sup>2</sup>. These limits are considered protective of these populations.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time [E] <sup>2</sup> , [H] <sup>2</sup> , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

\* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)  
 Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

<b>Personal Wireless Service</b>	<b>Approximate Frequency</b>	<b>Occupational MPE</b>	<b>Public MPE</b>
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
Cellular Telephone	870 MHz	2.90 mW/cm <sup>2</sup>	0.58 mW/cm <sup>2</sup>
Specialized Mobile Radio	855 MHz	2.85 mW/cm <sup>2</sup>	0.57 mW/cm <sup>2</sup>
Long Term Evolution (LTE)	700 MHz	2.33 mW/cm <sup>2</sup>	0.47 mW/cm <sup>2</sup>
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm <sup>2</sup>	0.20 mW/cm <sup>2</sup>

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by AT&T in this area operate within a frequency range of 700-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

### **3.0 AT&T RF EXPOSURE POLICY REQUIREMENTS**

AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, requires that:

1. All sites must be analyzed for RF exposure compliance;
2. All sites must have that analysis documented; and
3. All sites must have any necessary signage and barriers installed.

Pursuant to this guidance, worst-case predictive modeling was performed for the site. This modeling is described below in Section 4.0. Lastly, based on the modeling and survey data, EBI has produced a Compliance Plan for this site that outlines the recommended signage and barriers. The recommended Compliance Plan for this site is described in Section 5.0.

### **4.0 WORST-CASE PREDICTIVE MODELING**

In accordance with AT&T's RF Exposure policy, EBI performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational

specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

For this report, EBI utilized antenna and power data provided by AT&T and compared the resultant worst-case MPE levels to the FCC’s occupational/controlled exposure limits outlined in OET Bulletin 65. The assumptions used in the modeling are based upon information provided by AT&T and information gathered from other sources. There are no other wireless carriers with equipment installed at this site.

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT’s proposed antennas that exceed the FCC’s occupational and/or general public exposure limits at this site.

At the antenna face level RF emissions may exceed the FCC’s general public limit within 35 feet of the antennas.

At the nearest walking/working surfaces to the AT&T antennas, the maximum power density generated by the AT&T antennas is approximately 2.70 percent of the FCC’s general public limit (0.54 percent of the FCC’s occupational limit). The composite exposure level from all carriers on this site is approximately 8.20 percent of the FCC’s general public limit (1.64 percent of the FCC’s occupational limit) at the nearest walking/working surface to each antenna.

The following table summarizes the effects of elevation on MPE levels. Additionally, it provides the distance from the antennas at which the MPE level drops below 5% of the FCC’s general public limit. For Example; at 80 above the base of the monopole the maximum power density generated by the AT&T antennas is approximately 144.4 percent of the FCC’s general public limit. The area of FCC MPE exceedance is approximately 2 feet in front of the antenna. The MPE levels dissipate as you move further away from the antennas. At 27 feet from the antenna the MPE level is 5% or less of the FCC’s general public limit.

MPE Summary Table			
Elevation (AGL)	MPE (General Population)	Maximum Radius of MPE Exceedance Area (general public)	Distance (linear feet) to <5% MPE
0	8.2%	0	3
20	9.9%	0	3
40	17.1%	0	6
60	37%	0	13
80	144.4%	2	27
100	3429.9%	35	117

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix D. It should be noted that RoofView® is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground-level coverage. Based on AT&T’s RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, microwave antennas are considered compliant if they are higher than 20 feet above any accessible walking/working surface. There are no microwaves installed at this site.



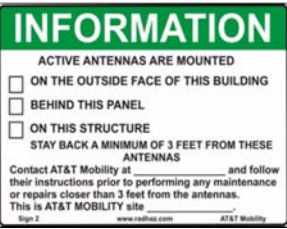







### 5.0 RECOMMENDED SIGNAGE/COMPLIANCE PLAN

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. As presented in the AT&T guidance document, the signs must:

- Be posted at a conspicuous point;
- Be posted at the appropriate locations;
- Be readily visible; and
- Make the reader aware of the potential risks prior to entering the affected area.

The table below presents the signs that may be used for AT&T installations.

Informational Signs		Alerting Signs	
	<p><b>INFO 1</b></p>		<p><b>NOTICE</b></p>
	<p><b>INFO 2</b></p>		<p><b>CAUTION - ROOFTOP</b></p>
	<p><b>INFO 3</b></p>		<p><b>CAUTION - TOWER</b></p>
	<p><b>INFO 4</b></p>		<p><b>WARNING</b></p>

Based upon protocols presented in AT&T's RF Exposure: Responsibilities, Procedures & Guidelines document, dated October 28, 2014, and additional guidance provided by AT&T, the following signage is recommended on the site:

Recommended Signage:

- Green INFO I sign posted on or next to the access gate.
- Yellow Tower CAUTION sign posted at the base of the monotree climbing ladder.

No barriers are required for this site. Barriers should be constructed of weather-resistant plastic or wood fencing. Barriers may consist of railing, rope, chain, or weather-resistant plastic if no other types are permitted or are feasible. Painted stripes should only be used as a last resort and only in regions where there is little chance of snowfall. If painted stripes are selected as barriers, it is recommended that the stripes and signage be illuminated. The signage and any barriers are graphically represented in the Signage Plan presented in Appendix E.

## 6.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed AT&T telecommunications equipment at the site located at 19406 Burning Bush Road in Nevada City, Nevada.

EBI has conducted theoretical modeling to estimate the worst-case power density from AT&T antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements, as well as AT&T's corporate RF safety policies. As presented in the preceding sections, based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ATT's proposed antennas that exceed the FCC's occupational and/or general public exposure limits at this site.

Based on the information provided in the table below there are no areas of exceedance at any elevation beyond 35 feet from the antenna arrays in any direction. It is recommended that all raised obstacles or terrain be at least 35 feet away from the proposed monopole.

MPE Summary Table			
Elevation (AGL)	MPE (General Population)	Maximum Radius of MPE Exceedance Area (general public)	Distance (linear feet) to <5% MPE
0	8.2%	0	3
20	9.9%	0	3
40	17.1%	0	6
60	37%	0	13
80	144.4%	2	27
100	3429.9%	35	117

Signage is recommended at the site as presented in Section 5.0 and Appendix E. Posting of the signage brings the site into compliance with FCC rules and regulations and AT&T's corporate RF safety policies.

## **7.0 LIMITATIONS**

This report was prepared for the use of AT&T Mobility, LLC to meet requirements outlined in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

# **Appendix A**

## **Certifications**

## Preparer Certification

I, David Keirstead, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified “occupational” under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have been trained in on the procedures outlined in AT&T’s RF Exposure: Responsibilities, Procedures & Guidelines document (dated October 28, 2014) and on RF-EME modeling using RoofView® modeling software.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.

*David Keirstead*

---

## **Appendix B**

### **Antenna Inventory**

Antenna Number	Operator	Antenna Type	TX Freq (MHz)	ERP (Watts)	Gain (dBd)	Antenna Model	Azimuth (deg.)	Length (feet)	Horizontal Beamwidth (Degrees)	X	Y	Z
ATT A1	AT&T	Panel	LTE 700	394.59	8.85	Quintel QS6656-3	90	6.0	69	40	32	116.0
ATT A1	AT&T	Panel	LTE 1900	3936.59	14.65	Quintel QS6656-3	90	6.0	70	40	32	116.0
ATT A2	AT&T	Panel	LTE 2300	4688.13	17.45	CCI HBSA-M65R-KU-H6	90	5.7	28	40	36	116.2
ATT A3	AT&T	Panel	LTE 700	654.86	11.05	Rosenberger MB-A64O9X65V-01	90	8.0	65	40	40	115.0
ATT A3	AT&T	Panel	LTE 850	1413.13	11.45	Rosenberger MB-A64O9X65V-01	90	8.0	65	40	40	115.0
ATT A3	AT&T	Panel	LTE 2100	5690.10	16.25	Rosenberger MB-A64O9X65V-01	90	8.0	65	40	40	115.0
ATT B1	AT&T	Panel	LTE 700	394.59	8.85	Quintel QS6656-3	330	6.0	69	37	42	116.0
ATT B1	AT&T	Panel	LTE 1900	3936.59	14.65	Quintel QS6656-3	330	6.0	70	37	42	116.0
ATT B2	AT&T	Panel	LTE 2300	9376.27	17.45	CCI HBSA-M65R-KU-H6	330	5.7	28	33	40	116.2
ATT B3	AT&T	Panel	LTE 700	654.86	11.05	Rosenberger MB-A64O9X65V-01	330	8.0	65	30	38	115.0
ATT B3	AT&T	Panel	LTE 850	1413.13	11.45	Rosenberger MB-A64O9X65V-01	330	8.0	65	30	38	115.0
ATT B3	AT&T	Panel	LTE 2100	5690.10	16.25	Rosenberger MB-A64O9X65V-01	330	8.0	65	30	38	115.0
ATT C1	AT&T	Panel	LTE 700	394.59	8.85	Quintel QS6656-3	210	6.0	69	30	34	116.0
ATT C1	AT&T	Panel	LTE 1900	3936.59	14.65	Quintel QS6656-3	210	6.0	70	30	34	116.0
ATT C2	AT&T	Panel	LTE 2300	9376.27	17.45	CCI HBSA-M65R-KU-H6	210	5.7	28	33	32	116.2
ATT C3	AT&T	Panel	LTE 700	654.86	11.05	Rosenberger MB-A64O9X65V-01	210	8.0	65	37	30	115.0
ATT C3	AT&T	Panel	LTE 850	1413.13	11.45	Rosenberger MB-A64O9X65V-01	210	8.0	65	37	30	115.0
ATT C3	AT&T	Panel	LTE 2100	5690.10	16.25	Rosenberger MB-A64O9X65V-01	210	8.0	65	37	30	115.0

I. Note there are only 3 AT&T antennas per sector at this site. For clarity, the different frequencies for each antenna are entered on separate lines.

## **Appendix C**

### **Roofview® Export File**



**StartMapDefinition**

Roof Max \ Roof Max X Map Max Y Map Max XY Offset X Offset Number of envelope  
 120 120 120 120 10 10 1 \$AE\$81;\$D \$AE\$81;\$DZ\$200

List Of Area  
 \$AE\$81;\$D

**StartSettingsData**

Standard Method Uptime Scale Factor Low Thr Low Color Mid Thr Mid Color Hi Thr Hi Color Over Color Ap Ht Mult Ap Ht Method  
 4 2 1 1 100 1 500 4 5000 2 3 1.5 1

**StartAntennaData**

It is advisable to provide an ID (ant 1) for all antennas

ID	Name	Freq (MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	(ft) X	(ft) Y	(ft) Z	Type	(ft) Aper	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag
ATT A1	LTE	700	30	2	10	1/2 LDF	0.5			Quintel	QS6656-3	40	32	116		6	8.85	69;90		ON•
ATT A1	LTE	1900	40	4	10	1/2 LDF	0.5			Quintel	QS6656-3	40	32	116		6	14.65	70;90		ON•
ATT A2	LTE	2300	25	4	10	1/2 LDF	0.5			CCI	HBSA-M65	40	36	116.1625		5.675	17.45	28;90		ON•
ATT A3	LTE	700	30	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		40	40	115		8	11.05	65;90		ON•
ATT A3	LTE	850	60	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		40	40	115		8	11.45	65;90		ON•
ATT A3	LTE	2100	40	4	10	1/2 LDF	0.5			Rosenberg;MB-A6409		40	40	115		8	16.25	65;90		ON•
ATT B1	LTE	700	30	2	10	1/2 LDF	0.5			Quintel	QS6656-3	37	42	116		6	8.85	69;330		ON•
ATT B1	LTE	1900	40	4	10	1/2 LDF	0.5			Quintel	QS6656-3	37	42	116		6	14.65	70;330		ON•
ATT B2	LTE	2300	25	8	10	1/2 LDF	0.5			CCI	HBSA-M65	33	40	116.1625		5.675	17.45	28;330		ON•
ATT B3	LTE	700	30	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		30	38	115		8	11.05	65;330		ON•
ATT B3	LTE	850	60	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		30	38	115		8	11.45	65;330		ON•
ATT B3	LTE	2100	40	4	10	1/2 LDF	0.5			Rosenberg;MB-A6409		30	38	115		8	16.25	65;330		ON•
ATT C1	LTE	700	30	2	10	1/2 LDF	0.5			Quintel	QS6656-3	30	34	116		6	8.85	69;210		ON•
ATT C1	LTE	1900	40	4	10	1/2 LDF	0.5			Quintel	QS6656-3	30	34	116		6	14.65	70;210		ON•
ATT C2	LTE	2300	25	8	10	1/2 LDF	0.5			CCI	HBSA-M65	33	32	116.1625		5.675	17.45	28;210		ON•
ATT C3	LTE	700	30	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		37	30	115		8	11.05	65;210		ON•
ATT C3	LTE	850	60	2	10	1/2 LDF	0.5			Rosenberg;MB-A6409		37	30	115		8	11.45	65;210		ON•
ATT C3	LTE	2100	40	4	10	1/2 LDF	0.5			Rosenberg;MB-A6409		37	30	115		8	16.25	65;210		ON•

**StartSymbolData**

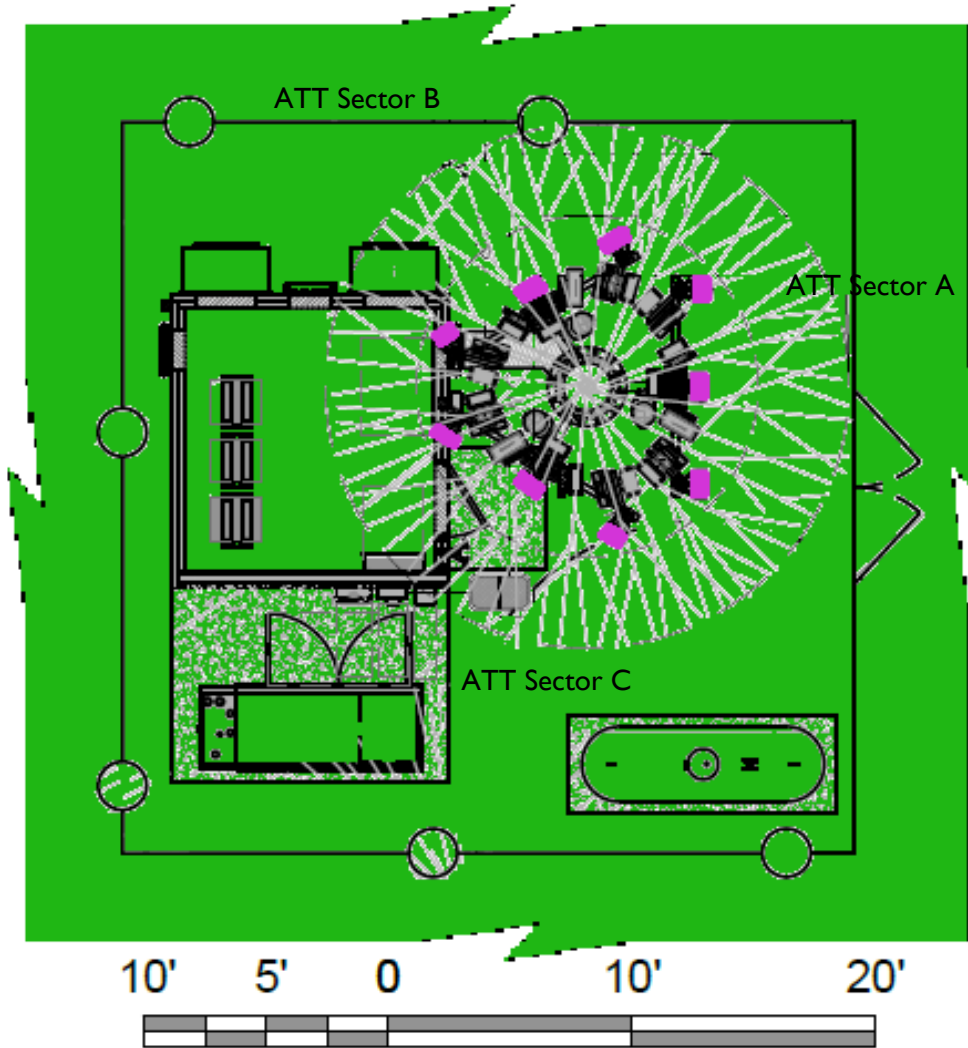
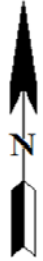
Sym	Map Mark	Roof X	Roof Y	Map Label	Description ( notes for this table only )
Sym			5	35 AC Unit	Sample symbols
Sym			14	5 Roof Access	
Sym			45	5 AC Unit	
Sym			45	20 Ladder	

## **Appendix D**

### **Roofview® Graphics**

- AT&T Antennas
- Other Carrier Antennas

### Ground Level Simulation



% FCC Public Exposure Limit	
	Exposure Level $\geq$ 5,000
	$500 <$ Exposure Level $\leq$ 5,000
	$100 <$ Exposure Level $\leq$ 500
	Exposure Level $\leq$ 100

### Roofview: Composite Exposure Levels

Facility Operator: AT&T Mobility

Site Name: Burning Bush

AT&T Site Number: CVL01762

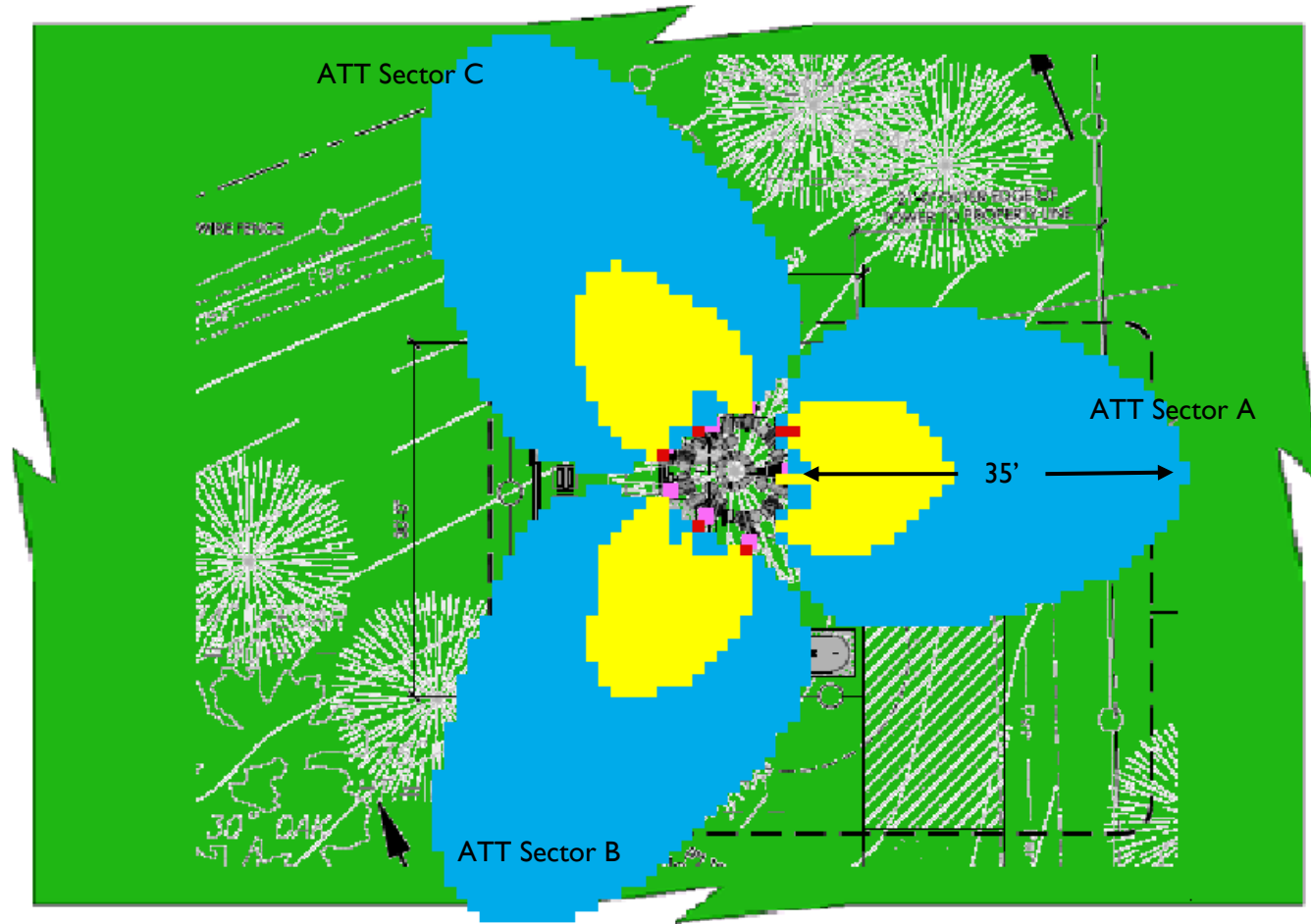
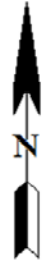
USID Number: 179030

Report Date: January 29, 2018



- AT&T Antennas
- Other Carrier Antennas

**\*Antenna Face Level Simulation**



**% FCC Public Exposure Limit**

- Exposure Level  $\geq 5,000$
- $500 < \text{Exposure Level} \leq 5,000$
- $100 < \text{Exposure Level} \leq 500$
- Exposure Level  $\leq 100$

**Roofview: Composite Exposure Levels**

Facility Operator: AT&T Mobility

Site Name: Burning Bush

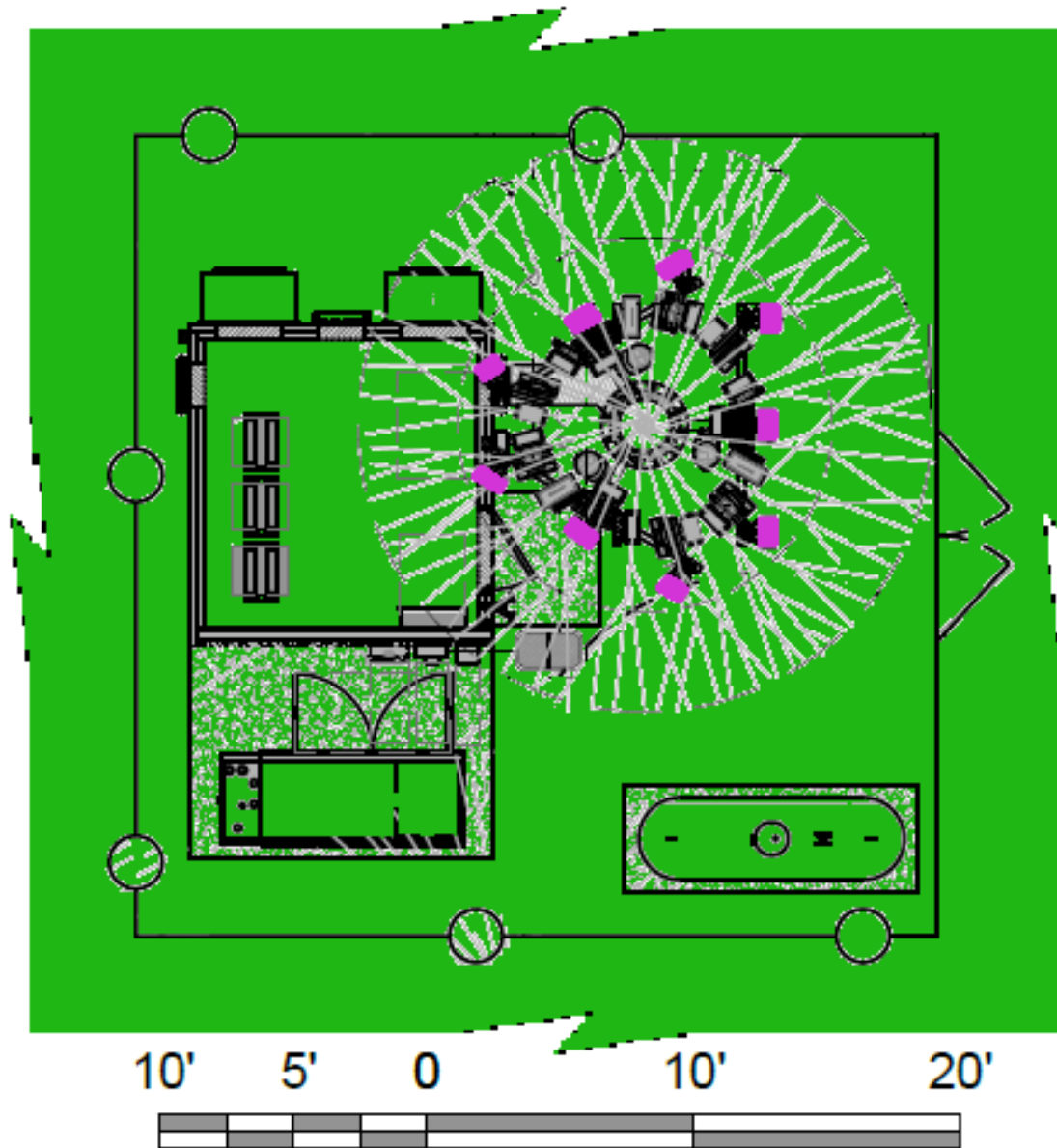
AT&T Site Number: CVL01762

USID Number: 179030

Report Date: January 29, 2018



AT&T Antennas



**% FCC Public Exposure Limit**

- Exposure Level > 5
- Exposure Level ≤ 5

Note that the areas shown in brown are where AT&T antennas contribute more than 5% of the FCC's general exposure RF limit. These do not overlap any areas in front of other carrier antennas exceeding the FCC's general exposure RF limit because there are no other carriers as shown in Figure 1.

**Roofview: AT&T Exposure Levels**

Facility Operator: AT&T Mobility

Site Name: Burning Bush

AT&T Site Number: CVL01762

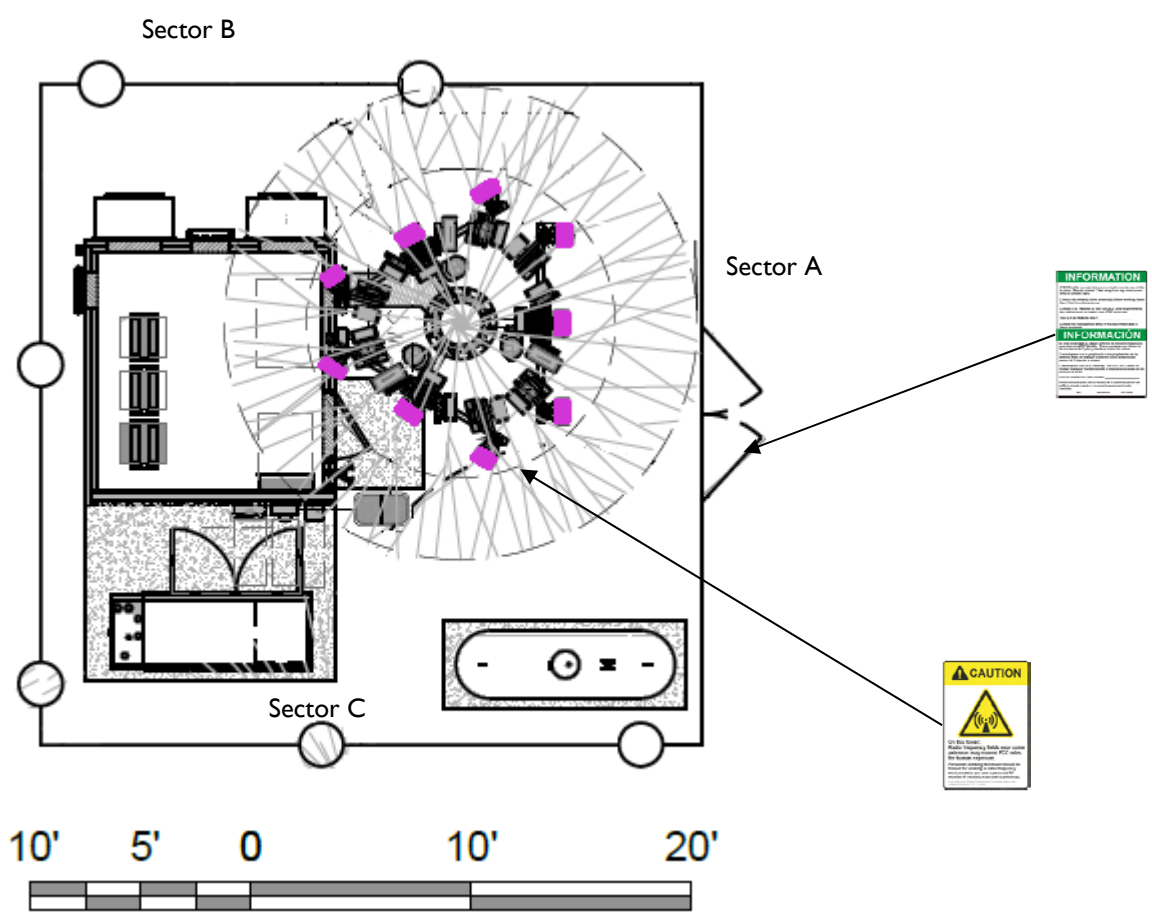
USID Number: 179030

Report Date: January 29, 2018



## **Appendix E**

### **Compliance/Signage Plan**



Sign Identification Legend			
	Denotes AT&T Information Sign 1		Denotes AT&T NOTICE Sign
	Denotes AT&T Information Sign 2		Denotes AT&T CAUTION Sign
	Denotes AT&T Information Sign 3		Denotes AT&T CAUTION Tower Sign
	Denotes AT&T Information Sign 4		Denotes AT&T WARNING Sign

AT&T Antennas

**Compliance/Signage Plan**  
 Facility Operator: AT&T Mobility  
 Site Name: Burning Bush  
 AT&T Site Number: CVL01762  
 USID Number: 179030  
 Report Date: January 29, 2018