



RF EMISSIONS COMPLIANCE REPORT

Verocitel on behalf of AT&T Mobility, LLC

Site FA #: 13046420

Site ID #: YA4795

Site USID #: 235182

Site Name: TEANAWAY

Assessment Purpose: MRWOR032395

8560 ELK SPRINGS ROAD

ELLENSBURG, WA

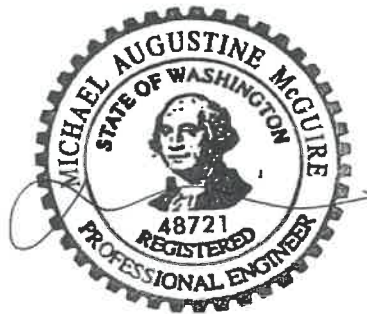
1/28/2019

Report Status:

RECEIVED
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Kittitas County CDS

AT&T Mobility, LLC Is Compliant



sealed 29jan2019

Prepared By:

Sitesafe, LLC

8618 Westwood Center Drive,
Suite 315

Vienna, VA 22182

Voice 703-276-1100

Fax 703-276-1169

Engineering Statement in Re:
Electromagnetic Energy Analysis
Velocitel
ELLENSBURG, WA

My signature on the cover of this document indicates:

That I, Michael A McGuire, am currently and actively licensed to provide (in this state/jurisdiction as indicated within the professional electrical engineering seal on the cover of this document) professional electrical engineering services, as an employee of Hurricane Hill Development Company PLLC , a duly authorized/registered engineering firm (in this state, as applicable) on behalf of SiteSafe, LLC

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 Velocitel (See attached Site Summary and Carrier documents), and that AT&T Mobility, LLC's installations involve communications equipment, antennas and associated technical equipment at a location referred to as the "TEANAWAY" ("the site"); and

That AT&T Mobility, LLC proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by AT&T Mobility, LLC 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 AT&T Mobility, LLC'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 AT&T Mobility, LLC operation is no more than 1.307% 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 1.307% 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 AT&T Mobility, LLC'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.

**Velocitel
TEANAWAY
Site Summary**

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC (Proposed)	0.642 %
AT&T Mobility, LLC (Proposed)	0.665 %
 Composite Site MPE:	 1.307 %

**AT&T Mobility, LLC (Proposed)
TEANAWAY
Carrier Summary**

Frequency: 763 MHz
Maximum Permissible Exposure (MPE): 508.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 3.26535 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.64194 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	85	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	85	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	180	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	180	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	270	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	270	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	0	2450	0.903346	0.177591	0.984824	0.193609
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	0	2450	0.903346	0.177591	0.984824	0.193609

**AT&T Mobility, LLC (Proposed)
TEANAWAY
Carrier Summary**

Frequency: 737 MHz
Maximum Permissible Exposure (MPE): 491.33 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 3.26535 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.66459 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE	Max Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of MPE
Cellmax	CMA-BTLBHH/6518/20/20/A15	146	85	2450	0.903346	0.183856	0.984824	0.200439
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Cellmax	CMA-BTLBHH/6518/20/20/A15	146	180	2450	0.903346	0.183856	0.984824	0.200439
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Cellmax	CMA-BTLBHH/6518/20/20/A15	146	270	2450	0.903346	0.183856	0.984824	0.200439
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