



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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VIA ELECTRONIC MAIL

December 21, 2022

Katie Adams
SR Site Acquisition Specialist
Network Building & Consulting
100 Apollo Drive, Suite 303
Chelmsford, MA 01824
kadams@nbcllc.com

RE: EM-AT&T-089-221025 – AT&T notice of intent to modify an existing telecommunications facility located at 115 North Mountain Road, New Britain, Connecticut.

Dear Katie Adams:

The Connecticut Siting Council (Council) is in receipt of your correspondence of December 19, 2022 submitted in response to the Council's November 7, 2022 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman
Executive Director

MAB/RDM/emr

emr

From: Katie Adams <kadams@nbcllc.com>

Sent: Monday, December 19, 2022 10:19 AM

To: Robidoux, Evan <Evan.Robidoux@ct.gov>

Cc: CSC-DL Siting Council <Siting.Council@ct.gov>

Subject: RE: Council Extension Letter for EM-AT&T-089-221025 (115 North Mountain Road, New Britain)

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good morning,

Attached please find the updated EME report as requested. Please let me know if you need anything else.

Thank you,

Katie Adams

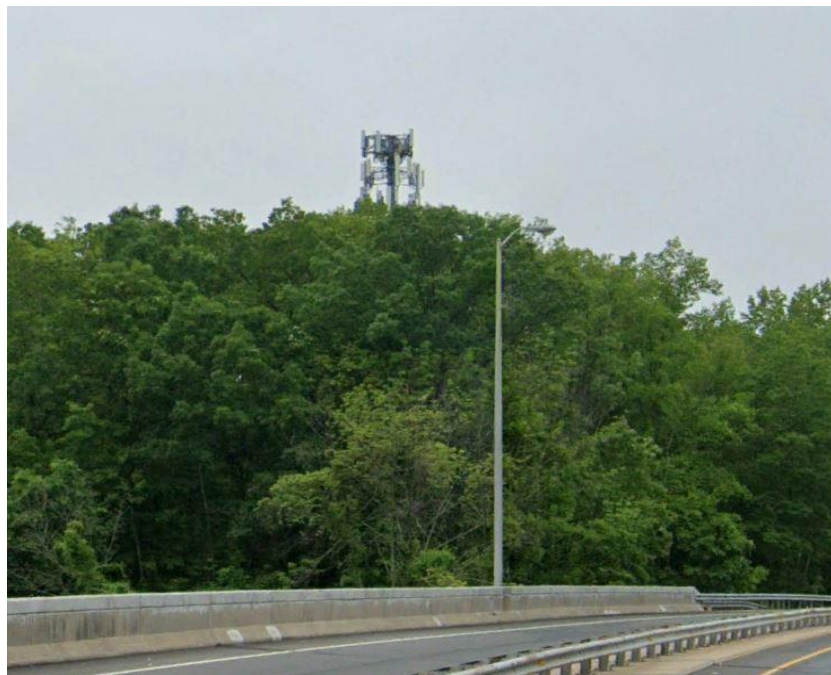
SR Site Acquisition Specialist

NETWORK BUILDING + CONSULTING

100 Apollo Drive | Suite 303 | Chelmsford, MA | 01824
M 781-392-7547



RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS



Site Name:	NEW BRITAIN LOON LAKE
Crown Castle Site#:	876331
Site ID:	CTL01024
Project Name:	5G NR 1SR C-BAND
Address:	115 NORTH MOUNTAIN RD., NEW BRITAIN, CT 06053
County:	HARTFORD
Latitude:	41.6765750
Longitude:	-72.8214161
Structure Type:	MONOPOLE
Property Owner:	MARCH 17 LLC
Property Contact:	NA

AT&T Existing Facility

Report Information

Report Writer:	Monti Kumar	Report Generated Date:	12-12-2022
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Site Compliance Statement

Compliance Status	Compliant
Cumulative General Population % MPE (Ground Level)	0.7285%

December 12, 2022

Emissions Analysis for Site: **CTL01024 – NEW BRITAIN LOON LAKE**

MobileComm Professionals, Inc was directed to analyze the proposed AT&T facility located at **115 NORTH MOUNTAIN RD., NEW BRITAIN, CT 06053**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of milliwatts per square centimeter (mW/cm²) or microwatts per square centimeter (μW/cm²). The number of mW/cm² or μW/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/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.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm²). The general population exposure limits for the 700 and 850 MHz Bands are approximately 0.467 mW/cm² and 0.567 mW/cm² respectively or 466.667 μW/cm² and 566.667 μW/cm² respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS), 3540 MHz (DoD Band) and 3840 MHz (C-Band) bands is 1 mW/cm² or 1000 μW/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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 population/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.

Additional details can be found in FCC OET 65.

1. Theoretical Calculations: Methods and Procedures

MobileComm Professionals, Inc has performed theoretical modeling of the site using a software tool, RoofMaster® Version 35.5.26.2022, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

2. Antenna Inventory & Power Data

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
A	1	AT&T	CCI	TPA65R-BU6D	Panel	700	LTE	10	73	12.35	6	4	40.00	2449.74	4019.02	100.00	0.000112	466.67	0.000024
A	1	AT&T	CCI	TPA65R-BU6D	Panel	1900	LTE/5G	10	66	15.95	6	4	40.00	5612.03	9207.04	100.00	0.000091	1000.00	0.000009
A	1	AT&T	CCI	TPA65R-BU6D	Panel	2100	LTE/5G	10	66	16.25	6	4	40.00	6013.40	9865.52	100.00	0.000068	1000.00	0.000007
A	2-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	10	11	23.50	2.55	1	54.22	12138.53	19914.34	101.77	0.003243	1000.00	0.000324
A	2-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	10	11	23.50	2.55	1	86.75	19421.64	31862.94	98.23	0.005981	1000.00	0.000598
A	3	AT&T	CCI	DMP65R-BU6D	Panel	700	LTE	10	74	11.85	6	4	40.00	2183.33	3581.95	100.00	0.000306	466.67	0.000066
A	3	AT&T	CCI	DMP65R-BU6D	Panel	850	5G	10	63	12.45	6	4	40.00	2506.80	4112.63	100.00	0.000062	566.67	0.000011
B	4	AT&T	CCI	TPA65R-BU8D	Panel	700	LTE	120	73	13.45	8	4	40.00	3155.88	5177.50	100.00	0.146344	466.67	0.031359
B	4	AT&T	CCI	TPA65R-BU8D	Panel	1900	LTE/5G	120	66	15.95	8	4	40.00	5612.03	9207.04	100.00	0.164556	1000.00	0.016456
B	4	AT&T	CCI	TPA65R-BU8D	Panel	2100	LTE/5G	120	66	16.15	8	4	40.00	5876.52	9640.95	100.00	0.168355	1000.00	0.016836
B	5-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	120	11	23.50	2.55	1	54.22	12138.53	19914.34	101.77	0.385842	1000.00	0.038584
B	5-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	120	11	23.50	2.55	1	86.75	19421.64	31862.94	98.23	0.607344	1000.00	0.060734
B	6	AT&T	CCI	DMP65R-BU8D	Panel	700	LTE	120	75	12.95	8	4	40.00	2812.68	4614.45	100.00	0.095605	466.67	0.020487
B	6	AT&T	CCI	DMP65R-BU8D	Panel	850	5G	120	64	13.85	8	4	40.00	3460.35	5677.01	100.00	0.108304	566.67	0.019112
C	7	AT&T	CCI	TPA65R-BU6D	Panel	700	LTE	240	73	12.35	6	4	40.00	2449.74	4019.02	100.00	0.000017	466.67	0.000004
C	7	AT&T	CCI	TPA65R-BU6D	Panel	1900	LTE/5G	240	66	15.95	6	4	40.00	5612.03	9207.04	100.00	0.000132	1000.00	0.000013
C	7	AT&T	CCI	TPA65R-BU6D	Panel	2100	LTE/5G	240	66	16.25	6	4	40.00	6013.40	9865.52	100.00	0.000001	1000.00	0.000000
C	8-1	AT&T	Ericsson	AIR 6419 B77G	Panel	3450	5G	240	11	23.50	2.55	1	54.22	12138.53	19914.34	101.77	0.000424	1000.00	0.000042
C	8-2	AT&T	Ericsson	AIR 6449 B77D	Panel	3840	5G	240	11	23.50	2.55	1	86.75	19421.64	31862.94	98.23	0.001180	1000.00	0.000118
C	9	AT&T	CCI	DMP65R-BU6D	Panel	700	LTE	240	74	11.85	6	4	40.00	2183.33	3581.95	100.00	0.000076	466.67	0.000016
C	9	AT&T	CCI	DMP65R-BU6D	Panel	850	5G	240	63	12.45	6	4	40.00	2506.80	4112.63	100.00	0.000190	566.67	0.000034

Table 2.1: Antenna Inventory & Power Data

**NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6419 antennas per guidance from AT&T.*

Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
A	10	Sprint	RFS	APXV9ERR18-C-A20	Panel	850	CDMA	50	80	11.85	6	1	20.00	272.92	447.74	116.00	0.000638	566.67	0.000113
A	10	Sprint	RFS	APXV9ERR18-C-A20	Panel	850	LTE	50	80	11.85	6	2	20.00	545.83	895.49	116.00	0.001237	566.67	0.000218
A	10	Sprint	RFS	APXV9ERR18-C-A20	Panel	1900	CDMA	50	80	14.85	6	5	16.00	2178.16	3573.47	116.00	0.001979	1000.00	0.000198
A	10	Sprint	RFS	APXV9ERR18-C-A20	Panel	1900	LTE	50	80	14.85	6	2	40.00	2178.16	3573.47	116.00	0.002216	1000.00	0.000222
A	11	Sprint	RFS	APXVTM14-C-I20	Panel	2500	LTE	50	65	15.90	4.59	8	20.00	2158.57	3541.33	116.00	0.005912	1000.00	0.000591
A	12	Sprint	CommScope	VHLP1-23	Microwave	23000	Unknown	0	3	33.45	1	1	1.00	2213.89	3630.78	116.00	0.000000	1000.00	0.000000
B	13	Sprint	RFS	APXVSPP18-C-A20	Panel	850	CDMA	150	80	13.40	6	1	20.00	390.11	639.78	116.00	0.006165	566.67	0.001088
B	13	Sprint	RFS	APXVSPP18-C-A20	Panel	850	LTE	150	80	13.40	6	2	20.00	780.22	1279.56	116.00	0.012559	566.67	0.002216
B	13	Sprint	RFS	APXVSPP18-C-A20	Panel	1900	CDMA	150	80	15.90	6	5	16.00	2774.89	4550.82	116.00	0.027171	1000.00	0.002717
B	13	Sprint	RFS	APXVSPP18-C-A20	Panel	1900	LTE	150	80	15.90	6	2	40.00	2774.89	4550.82	116.00	0.026517	1000.00	0.002652
B	14	Sprint	RFS	APXVTM14-C-I20	Panel	2500	LTE	150	65	15.90	4.59	8	20.00	6226.96	10212.22	116.00	0.008108	1000.00	0.000811
C	15	Sprint	RFS	APXVSPP18-C-A20	Panel	850	CDMA	230	80	13.40	6	1	20.00	390.11	639.78	116.00	0.000012	566.67	0.000002
C	15	Sprint	RFS	APXVSPP18-C-A20	Panel	850	LTE	230	80	13.40	6	2	20.00	780.22	1279.56	116.00	0.000024	566.67	0.000004
C	15	Sprint	RFS	APXVSPP18-C-A20	Panel	1900	CDMA	230	80	15.90	6	5	16.00	2774.89	4550.82	116.00	0.000128	1000.00	0.000013
C	15	Sprint	RFS	APXVSPP18-C-A20	Panel	1900	LTE	230	80	15.90	6	2	40.00	2774.89	4550.82	116.00	0.000060	1000.00	0.000006
C	16	Sprint	RFS	APXVTM14-C-I20	Panel	2500	LTE	230	65	15.90	4.59	8	20.00	6226.96	10212.22	116.00	0.000187	1000.00	0.000019
A	17	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	20	12.5	22.65	2.75	1	40.67	7485.61	12280.81	108.00	0.000082	1000.00	0.000008
A	17	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	20	12.5	22.65	2.75	1	67.78	12476.02	20468.02	108.00	0.000136	1000.00	0.000014
A	18	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	LTE	20	60.6	13.55	8	2	30.00	1211.02	1986.79	108.00	0.000022	400.00	0.000005
A	18	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	5G	20	60.6	13.55	8	1	80.00	1614.69	2649.05	108.00	0.000029	400.00	0.000007
A	18	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	700	LTE	20	57.1	14.45	8	2	30.00	1489.88	2444.28	108.00	0.000279	466.67	0.000060
A	18	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	1900	LTE	20	67.6	15.05	8	4	30.00	3421.22	5612.82	108.00	0.000076	1000.00	0.000008
A	18	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	2100	UMTS	20	67.6	15.05	8	2	30.00	1710.61	2806.41	108.00	0.000047	1000.00	0.000005
A	19	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	GSM	20	63.3	15.35	4.94	4	30.00	4113.21	6748.10	108.00	0.000207	1000.00	0.000021
A	19	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	LTE	20	63.3	15.35	4.94	4	60.00	8226.43	13496.19	108.00	0.000233	1000.00	0.000023
B	20	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	100	12.5	22.65	2.75	1	40.67	7485.61	12280.81	108.00	0.025251	1000.00	0.002525
B	20	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	100	12.5	22.65	2.75	1	67.78	12476.02	20468.02	108.00	0.042066	1000.00	0.004207
B	21	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	LTE	100	60.6	13.55	8	2	30.00	1211.02	1986.79	108.00	0.037473	400.00	0.009368
B	21	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	5G	100	60.6	13.55	8	1	80.00	1614.69	2649.05	108.00	0.049975	400.00	0.012494
B	21	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	700	LTE	100	57.1	14.45	8	2	30.00	1489.88	2444.28	108.00	0.041025	466.67	0.008791
B	21	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	1900	LTE	100	67.6	15.05	8	4	30.00	3421.22	5612.82	108.00	0.083587	1000.00	0.008359
B	21	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	2100	UMTS	100	67.6	15.05	8	2	30.00	1710.61	2806.41	108.00	0.085597	1000.00	0.008560

Table 2.2: Antenna Inventory & Power Data

**NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6419 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.*

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
B	22	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	GSM	100	63.3	15.35	4.94	4	30.00	4113.21	6748.10	108.00	0.146115	1000.00	0.014612
B	22	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	LTE	100	63.3	15.35	4.94	4	60.00	8226.43	13496.19	108.00	0.329168	1000.00	0.032917
C	23	T-Mobile	Ericsson	AIR6449_LTE_B41	Panel	2500	LTE	200	12.5	22.65	2.75	1	40.67	7485.61	12280.81	108.00	0.000060	1000.00	0.000006
C	23	T-Mobile	Ericsson	AIR6449_NR_B41	Panel	2500	5G	200	12.5	22.65	2.75	1	67.78	12476.02	20468.02	108.00	0.000100	1000.00	0.000010
C	24	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	LTE	200	60.6	13.55	8	2	30.00	1211.02	1986.79	108.00	0.000072	400.00	0.000018
C	24	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	600	5G	200	60.6	13.55	8	1	80.00	1614.69	2649.05	108.00	0.000096	400.00	0.000024
C	24	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	700	LTE	200	57.1	14.45	8	2	30.00	1489.88	2444.28	108.00	0.000004	466.67	0.000001
C	24	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	1900	LTE	200	67.6	15.05	8	4	30.00	3421.22	5612.82	108.00	0.000401	1000.00	0.000040
C	24	T-Mobile	RFS	APXVARR24_43-C-NA20	Panel	2100	UMTS	200	67.6	15.05	8	2	30.00	1710.61	2806.41	108.00	0.000097	1000.00	0.000010
C	25	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	GSM	200	63.3	15.35	4.94	4	30.00	4113.21	6748.10	108.00	0.042505	1000.00	0.004250
C	25	T-Mobile	Ericsson	KRD901146-1_A	Panel	1900	LTE	200	63.3	15.35	4.94	4	60.00	8226.43	13496.19	108.00	0.097311	1000.00	0.009731
A	26	Verizon	CommScope	NHH-65B-R2B	Panel	700	LTE	0	65	12.75	6	4	40.00	2686.09	4406.77	90.00	0.000299	466.67	0.000064
A	26	Verizon	CommScope	NHH-65B-R2B	Panel	850	LTE	0	60	12.85	6	4	40.00	2748.65	4509.41	90.00	0.000053	566.67	0.000009
A	27	Verizon	CommScope	NHH-65B-R2B	Panel	1900	LTE	0	69	15.75	6	4	40.00	5359.45	8792.65	90.00	0.000002	1000.00	0.000000
A	27	Verizon	CommScope	NHH-65B-R2B	Panel	2100	LTE	0	64	16.25	6	4	40.00	6013.40	9865.52	90.00	0.000131	1000.00	0.000013
A	28	Verizon	Samsung	MT6407-77A	Panel	3700	5G	0	17	22.85	2.93	4	35.00	26995.05	44271.89	90.00	0.001504	1000.00	0.000150
B	29	Verizon	CommScope	NHH-65B-R2B	Panel	700	LTE	120	65	12.75	6	4	40.00	2686.09	4406.77	90.00	0.194033	466.67	0.041579
B	29	Verizon	CommScope	NHH-65B-R2B	Panel	850	LTE	120	60	12.85	6	4	40.00	2748.65	4509.41	90.00	0.205403	566.67	0.036248
B	30	Verizon	CommScope	NHH-65B-R2B	Panel	1900	LTE	120	69	15.75	6	4	40.00	5359.45	8792.65	90.00	0.177911	1000.00	0.017791
B	30	Verizon	CommScope	NHH-65B-R2B	Panel	2100	LTE	120	64	16.25	6	4	40.00	6013.40	9865.52	90.00	0.187469	1000.00	0.018747
B	31	Verizon	Samsung	MT6407-77A	Panel	3700	5G	120	17	22.85	2.93	4	35.00	26995.05	44271.89	90.00	1.140866	1000.00	0.114087
C	32	Verizon	CommScope	NHH-65B-R2B	Panel	700	LTE	240	65	12.75	6	4	40.00	2686.09	4406.77	90.00	0.000236	466.67	0.000051
C	32	Verizon	CommScope	NHH-65B-R2B	Panel	850	LTE	240	60	12.85	6	4	40.00	2748.65	4509.41	90.00	0.000035	566.67	0.000006
C	33	Verizon	CommScope	NHH-65B-R2B	Panel	1900	LTE	240	69	15.75	6	4	40.00	5359.45	8792.65	90.00	0.000032	1000.00	0.000003
C	33	Verizon	CommScope	NHH-65B-R2B	Panel	2100	LTE	240	64	16.25	6	4	40.00	6013.40	9865.52	90.00	0.000001	1000.00	0.000000
C	34	Verizon	Samsung	MT6407-77A	Panel	3700	5G	240	17	22.85	2.93	4	35.00	26995.05	44271.89	90.00	0.002895	1000.00	0.000289
A	35	Dish	JMA	MX08FRO665-21	Panel	600	LTE	0	62	11.45	6	4	30.00	1493.95	2450.09	62.00	0.000118	400.00	0.000012
A	35	Dish	JMA	MX08FRO665-21	Panel	1900	LTE	0	62	16.15	6	4	40.00	5878.63	9640.95	62.00	0.000240	1000.00	0.000060
B	36	Dish	JMA	MX08FRO665-21	Panel	600	LTE	120	62	11.45	6	4	30.00	1493.95	2450.09	62.00	0.588921	400.00	0.058892
B	36	Dish	JMA	MX08FRO665-21	Panel	1900	LTE	120	62	16.15	6	4	40.00	5878.63	9640.95	62.00	0.434608	1000.00	0.108652
C	37	Dish	JMA	MX08FRO665-21	Panel	600	LTE	240	62	11.45	6	4	30.00	1493.95	2450.09	62.00	0.000318	400.00	0.000032
C	37	Dish	JMA	MX08FRO665-21	Panel	1900	LTE	240	62	16.15	6	4	40.00	5878.63	9640.95	62.00	0.000170	1000.00	0.000042
																Calculated Power Density (μW/cm ²)	5.902778	Calculated MPE%	0.7285

Table 2.3: Antenna Inventory & Power Data

*NOTE: 75% Duty Cycle and adjusted power reduction factor of 0.32 was applied to the AIR6449 & AIR6419 antennas per guidance from AT&T. Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

3. Compliance Summary

The theoretical calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated composite MPE value for this site assuming all carriers present is 0.7285% of the allowable FCC established general public limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.