

**T-Mobile
Site ID – 7WDC151B
Assessment Purpose – TMO Mod
(mmWave)
Site Name – GSA - Hubert Humphrey
Building
Site Compliance Report**

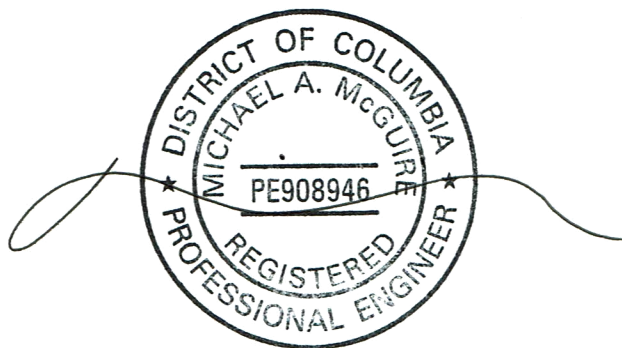
**200 Independence Avenue SW
Washington, DC 20024**

Latitude: N38-53-12.66
Longitude: W77-00-52.85
Structure Type: Rooftop

Report generated date: June 2, 2025
Report by: Sophie Thein
Customer Contact: Emily Nelms

**T-Mobile's project will be compliant with the FCC
Rules and Regulations, as described in OET Bulletin
65, upon completion of the remediation identified
in Section 2.2.**

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sealed 04jun2025

T-Mobile

GSA - Hubert Humphrey Building - 7WDC151B

Radio Frequency (RF) Site Compliance Report



200 Independence Avenue SW, Washington, DC 20024

Table of Contents

1	Information	4
2	Site Compliance	5
2.1	Summary	5
2.2	Actions for Site Compliance.....	6
3	Technical Framework	7
3.1	FCC Rules and Regulations.....	7
4	General Safety Recommendations	9
5	Antenna Inventory	11
6	RF Exposure/Site Diagram	18
7	Engineer Certification	23
	Appendix A - Definitions	24
	Appendix B – Statement of Limiting Conditions	26
	Appendix C – RF Exposure Diagram Color Coding	27

1 Information

Original Report Date:	April 25, 2025
Total Report Revisions:	1
Report Revision Date:	June 2, 2025
Software Used:	RFMaster, Version 1.0092.28
Calculation Methodology:	Sula09
DOCUMENTS USED:	CD: 7WDC151A mmWAVE CD REV 5 RFDS: 7WDC151B_mmWave_8_Ready to BOM_Aproved_2025-03-19 (Recovered)RL
POWERS USED:	Max RRH Powers
Compliance Statement:	T-Mobile's project will be compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, upon completion of the remediation identified in Section 2.2.

2 Site Compliance

2.1 Summary

The T-Mobile facility was evaluated for compliance with the FCC Rules and Regulations using the data provided to SiteSafe™. For areas that may exceed the MPE limits for which RF signage/barriers are required for site compliance, the recommended mitigation is detailed in Section 2.2 as well as in the diagram(s) in Section 6.

To reduce the risk of exposure and/or injury, SiteSafe™ recommends that access to the rooftop or areas associated with the T-Mobile antenna installation be restricted to authorized personnel who have undergone proper RF awareness safety training. Additionally, all signs and barriers should be obeyed at all times and any work that must be performed in close proximity to the T-Mobile antennas should be coordinated in advance with T-Mobile to ensure safe working conditions. Workers can call the T-Mobile NOC Number at 1-888-662-4662 for guidance.

2.2 Actions for Site Compliance

Based on common industry practice and our understanding of FCC and OSHA requirements, this section provides a statement of recommendations for site compliance. If required, RF alert signage recommendations have been made based on theoretical analysis of MPE levels. Where applicable, barriers can consist of locked doors, fencing, railing, rope, chain, paint striping or tape, combined with RF alert signage.

T-Mobile's project will be compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, and internal policy, upon completion of the following remediation:

T-Mobile Alpha Sector Location

(14) Caution signs required replacing the existing Warning signs.

T-Mobile Beta Sector Location

(2) Caution signs required replacing the existing Warning signs.

T-Mobile Gamma Sector Location

(14) Caution signs required replacing the existing Warning signs.

T-Mobile Delta/Epsilon Sector Location

(6) Caution signs required replacing the existing Warning signs.

Note: Ensure all existing signage/barriers documented in this report still exists on site unless otherwise indicated.

Note: Although not shown in the theoretical modeling diagram(s), mitigation items are in place for other carrier sectors throughout the rooftop.

Note: For overall compliance, access to the site (i.e., door(s), hatch(es), etc.) must remain locked/restricted.

3 Technical Framework

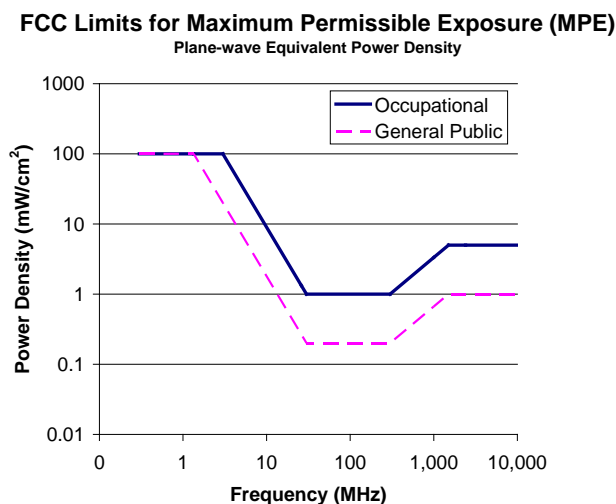
3.1 FCC Rules and Regulations

In 1996, the FCC adopted regulations for evaluating the effects of RF emissions in 47 CFR § 1.1307(b) and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (OET Bulletin 65), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996, the FCC periodically reviews these rules and regulations as per its congressional mandate. The FCC has reviewed these rules and regulations beginning in 2019 and have finalized their review in May 2021 with the US Court of Appeals.

FCC regulations designate two separate tiers of exposure limits: Occupational (Controlled) and General Public (Uncontrolled). The FCC defines two sets of MPE limits for these groups. Occupational limits apply in situations in which persons are exposed as a consequence of their employment and where those persons have undergone proper RF awareness training, have been made fully aware of the potential for exposure, and can exercise control over their exposure. General Public limits, conversely, apply to accessible areas where workers or the general public may be exposed and have not undergone RF awareness training, may not be aware of the potential for exposure, and may not be able to exercise control over their exposure.

Areas are considered controlled when the environment is restricted or “controlled” in order to prevent access from members of the general public or untrained workers. Conversely, areas are considered uncontrolled when access is unrestricted or “uncontrolled” which allows access from members of the general public or untrained workers. A controlled environment can be evaluated with Occupational MPE limits whereas uncontrolled environments should always be evaluated with General Public MPE limits.

The MPE limits utilized in this analysis are outlined in the following diagram and table:



Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

4 General Safety Recommendations

The following are *general recommendations* appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

- 1) All individuals needing access to the main site or the area(s) indicated to be in excess of General Public MPE should wear a Personal Protective Monitor (PPM), successfully complete proper RF Safety Awareness training, and have and be trained in the use of appropriate personal protective equipment. Awareness training increases a worker's understanding of potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet-based courses). SiteSafe™ strongly recommends the use of a PPM. Wearing a PPM will properly forewarn the individual prior to entering an RF exposure area that may approach or exceed the exposure limits.
- 2) Any maintenance personnel required to work immediately in front of antennas and/or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.
- 3) Access restrictions to transmitting antenna locations is the primary element in a site safety plan. Examples of access restrictions are as follows:
 - Locked door or gate
 - Alarmed door
 - Locked ladder access
 - Restrictive barrier at antenna(s) (e.g., chain-link with posted RF signage)
- 4) All individuals needing access to the main site should be instructed to obey all posted signs at all times. RF signage plays an important role in properly warning a worker prior to entering into a potential RF exposure area.
- 5) Individuals should always assume all antennas are active. Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting and never stop in front of an antenna. If someone must pass by an antenna, they should move through in a transient manner as quickly and safely as possible, thereby reducing any exposure to a minimum.
- 6) The site should be routinely inspected and this or a similar report updated with any changes to the RF environment including:
 - addition of new antennas that have been located at the site
 - removal of existing antennas that are no longer present at the site
 - addition of new frequency bands on any antenna systems
 - changes in the radiating power and/or number of RF emitters
- 7) Post the appropriate **NOTICE**, **CAUTION**, or **WARNING** signage at the main site access point(s) and other locations as required. Note: please refer to the mitigation

diagram(s) in Section 6 of this report for the locations of existing/new RF signage and barriers and inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC.

- 8) It is the responsibility of all licensees comprising the site to maintain ongoing compliance with the FCC Rules and Regulations. Individual licensees that contribute less than 5% MPE to any area(s) out of compliance are not responsible for corrective actions in those areas.
- 9) Keep a copy of this report available for all persons who must access the site. They should read this report and be aware of the potential hazards with regards to RF and MPE limits.

Additional RF information is available at the following sites:

<https://www.fcc.gov/general/radio-frequency-safety-0>

<https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

OSHA has additional information available at:

<https://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

5 Antenna Inventory

The following antenna inventory was provided by the customer and was utilized to create the site model diagrams:

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
A	1	24000	5G	ERICSSON SON_AIR5322 (P)	30	124.20
A	2	1900	LTE	ERICSSON SON_AIR1641	90	122.70
A	2	2100	LTE	ERICSSON SON_AIR1641	90	122.70
A	3	2500	5G	ERICSSON SON_AIR6449	90	122.70
A	4	600	LTE	RFS APXVAARR24_43-U-NA20	90	122.70
A	4	600	5G	RFS APXVAARR24_43-U-NA20	90	122.70
A	4	700	LTE	RFS APXVAARR24_43-U-NA20	90	122.70
A	4	1900	GSM	RFS APXVAARR24_43-U-NA20	90	122.70
A	4	1900	LTE	RFS APXVAARR24_43-U-NA20	90	122.70
B	5	5150	LAA	ERICSSON 2205	180	122.70
B	6	1900	LTE	ERICSSON SON_AIR1641	180	122.70
B	6	2100	LTE	ERICSSON SON_AIR1641	180	122.70
B	7	2500	5G	ERICSSON SON_AIR6449	180	122.70
B	8	600	LTE	RFS APXVAARR24_43-U-NA20	180	122.70
B	8	600	5G	RFS APXVAARR24_43-U-NA20	180	122.70
B	8	700	LTE	RFS APXVAARR24_43-U-NA20	180	122.70
B	8	1900	GSM	RFS APXVAARR24_43-U-NA20	180	122.70
B	8	1900	LTE	RFS APXVAARR24_43-U-NA20	180	122.70
B	9	5150	LAA	ERICSSON 2205	340	122.70
G	10	1900	LTE	ERICSSON SON_AIR1641	270	122.70
G	10	2100	LTE	ERICSSON SON_AIR1641	270	122.70
G	11	2500	5G	ERICSSON SON_AIR6449	270	122.70
G	12	600	LTE	RFS APXVAARR24_43-U-NA20	270	122.70
G	12	600	5G	RFS APXVAARR24_43-U-NA20	270	122.70
G	12	700	LTE	RFS APXVAARR24_43-U-NA20	270	122.70
G	12	1900	GSM	RFS APXVAARR24_43-U-NA20	270	122.70

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
G	12	1900	LTE	RFS APXVAARR24_43-U-NA20	270	122.70
G	13	24000	5G	ERICSSON SON_AIR5322 (P)	325	124.20
D	14	1900	GSM	ERICSSON AIR 21	340	122.70
D	15	2500	5G	ERICSSON SON_AIR6449	340	122.70
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+55	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+55	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+55	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+55	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+50	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ+50	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+50	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+45	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+45	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+45	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+45	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+35	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+35	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+35	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+35	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+30	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ+30	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+30	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+25	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+25	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+25	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+25	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+15	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+15	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+15	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+15	340	124.00

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+10	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ+10	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ+10	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ+5	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ+5	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ+5	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ+5	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-5	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-5	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-5	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-5	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-10	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ-10	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-10	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-15	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-15	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-15	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-15	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-25	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-25	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-25	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-25	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-30	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ-30	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-30	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-35	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-35	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-35	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-35	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-45	340	124.00

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-45	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-45	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-45	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-50	340	124.00
E	16	700	5G	MATSING MS-12.6DB180-A AZ-50	340	124.00
E	16	700	LTE	MATSING MS-12.6DB180-A AZ-50	340	124.00
E	16	1900	LTE	MATSING MS-12.6DB180-A AZ-55	340	124.00
E	16	1900	5G	MATSING MS-12.6DB180-A AZ-55	340	124.00
E	16	2100	LTE	MATSING MS-12.6DB180-A AZ-55	340	124.00
E	16	2500	5G	MATSING MS-12.6DB180-A AZ-55	340	124.00
	17	700		MATSING MS-10.10.10DBA180	355	135.00
	17	700		MATSING MS-10.10.10DBA180	355	135.00
	17	850		MATSING MS-10.10.10DBA180	355	135.00
	17	2300		MATSING MS-10.10.10DBA180	355	135.00
	18	700		MATSING MS-10.10.10DBA180	355	135.00
	18	700		MATSING MS-10.10.10DBA180	355	135.00
	18	700		MATSING MS-10.10.10DBA180	355	135.00
	18	1900		MATSING MS-10.10.10DBA180	355	135.00
	18	2100		MATSING MS-10.10.10DBA180	355	135.00
	19	850		KATHREIN 742264V01	0	123.00
	20	2300		CCI BSA-M65R-BUU-H6 (MULTIBEAM)	0	123.00
	20	2300		CCI BSA-M65R-BUU-H6 (MULTIBEAM)	0	123.00
	21	2100		COMMSCOPENNHH-65A-R4	180	123.00
	21	2100		COMMSCOPENNHH-65A-R4	180	123.00
	21	1900		COMMSCOPENNHH-65A-R4	180	123.00
	21	700		COMMSCOPENNHH-65A-R4	180	123.00
	21	700		COMMSCOPENNHH-65A-R4	180	123.00
	21	700		COMMSCOPENNHH-65A-R4	180	123.00
	22	850		COMMScope SBNHH-1D65A	180	123.00
	23	850		COMMScope SBNHH-1D65A	180	123.00

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
	23	2300		COMMSCOPE SBNHH-1D65A	180	123.00
	24	850		KATHREIN 742264V01	180	123.00
	25	2100		COMMSCOPENNHH-65A-R4	240	123.00
	25	2100		COMMSCOPENNHH-65A-R4	240	123.00
	25	1900		COMMSCOPENNHH-65A-R4	240	123.00
	25	700		COMMSCOPENNHH-65A-R4	240	123.00
	25	700		COMMSCOPENNHH-65A-R4	240	123.00
	25	700		COMMSCOPENNHH-65A-R4	240	123.00
	26	850		COMMSCOPE SBNHH-1D65A	240	123.00
	27	850		COMMSCOPE SBNHH-1D65A	240	123.00
	27	2300		COMMSCOPE SBNHH-1D65A	240	123.00
	28	850		KATHREIN 742264V01	270	123.00
	29	3700		SAMSUNG SON_MT6407	30	122.00
	30	28000		SAMSUNG SON_AT1K01	30	114.00
	31	5150		SAMSUNG RT2201-46A	30	112.00
	32	3500		SAMSUNG XXDWMM-12.5-65-8T	30	110.00
	33	850		JMA MX06FRO840-02	70	122.00
	33	850		JMA MX06FRO840-02	70	122.00
	33	2100		JMA MX06FRO840-02	70	122.00
	33	2100		JMA MX06FRO840-02	70	122.00
	33	700		JMA MX06FRO840-02	70	122.00
	34	1900		JMA MX10FRO840-Bxx	70	122.00
	35	3700		SAMSUNG SON_MT6407	140	122.00
	36	28000		SAMSUNG SON_AT1K01	140	114.00
	37	5150		SAMSUNG RT2201-46A	140	112.00
	38	3500		SAMSUNG XXDWMM-12.5-65-8T	140	110.00
	39	850		JMA MX06FRO840-02	180	122.00
	39	850		JMA MX06FRO840-02	180	122.00
	39	2100		JMA MX06FRO840-02	180	122.00
	39	2100		JMA MX06FRO840-02	180	122.00

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
	39	700		JMA MX06FRO840-02	180	122.00
	40	1900		JMA MX10FRO840-Bxx	180	122.00
	41	3700		SAMSUNG SON_MT6407	230	122.00
	42	28000		SAMSUNG SON_AT1K01	230	114.00
	43	5150		SAMSUNG RT2201-46A	230	112.00
	44	3500		SAMSUNG XDWMM-12.5-65-8T	230	110.00
	45	850		JMA MX06FRO840-02	250	122.00
	45	850		JMA MX06FRO840-02	250	122.00
	45	2100		JMA MX06FRO840-02	250	122.00
	45	2100		JMA MX06FRO840-02	250	122.00
	45	700		JMA MX06FRO840-02	250	122.00
	46	1900		JMA MX10FRO840-Bxx	250	122.00
	47	28000		SAMSUNG SON_AT1K01	350	114.00
	48	5150		SAMSUNG RT2201-46A	350	112.00
	49	3500		SAMSUNG XDWMM-12.5-65-8T	350	110.00
	50	1900		MATSING MS-6.3DB90 Az+10	0	123.00
	50	1900		MATSING MS-6.3DB90 Az+30	0	123.00
	50	1900		MATSING MS-6.3DB90 Az+50	0	123.00
	50	1900		MATSING MS-6.3DB90 Az-50	0	123.00
	50	1900		MATSING MS-6.3DB90 Az-30	0	123.00
	50	1900		MATSING MS-6.3DB90 Az-10	0	123.00
	51	751		MATSING MS-6.3DB90 Az+40	0	123.00
	51	850		MATSING MS-6.3DB90 Az+40	0	123.00
	51	751		MATSING MS-6.3DB90 Az0	0	123.00
	51	850		MATSING MS-6.3DB90 Az0	0	123.00
	51	751		MATSING MS-6.3DB90 Az-40	0	123.00
	51	850		MATSING MS-6.3DB90 Az-40	0	123.00
	52	850		GENERIC	0	123.00
	53	1900		GENERIC	0	129.00
	54	23000		GENERIC	0	128.00

SECTOR	ANTENNA NUMBER	TX Freq (MHz)	Technology	Antenna Make and Model	Azimuth (Degrees)	Centerline Height Above Main/Reference Level (ft)
	55	850		GENERIC	0	130.00
	56	700		GENERIC	0	135.00
	57	900		GENERIC	0	129.00
	58	700		GENERIC	0	130.00
	59	450		GENERIC	0	131.00
	60	450		GENERIC	0	133.00
	61	2400		GENERIC	0	136.00
	62	2400		GENERIC	0	118.00
	63	450		COMMSCOPE DB408-B	0	118.00
	64	450		COMMSCOPE DB408-B	0	134.00
	65	150		COMMSCOPE DB264	0	134.00
	66	5200		GENERIC	0	140.00
	67	3500		GENERIC	0	118.50
	68	850		GENERIC	0	120.00
	69	450		COMMSCOPE DB436-C	0	132.00
	70	900		GENERIC	0	136.00
	71	450		GENERIC	0	115.00
	72	450		GENERIC	0	134.00
	73	450		GENERIC	0	134.00
	74	850		GENERIC	0	132.00
	75	5200		GENERIC	0	131.00

Note: The centerline height indicates antenna height above the **main/reference site ground level** unless otherwise indicated.

Note: Each row with the same number in the Ant Number column references the same physical antenna as an antenna may operate in multiple frequency bands.

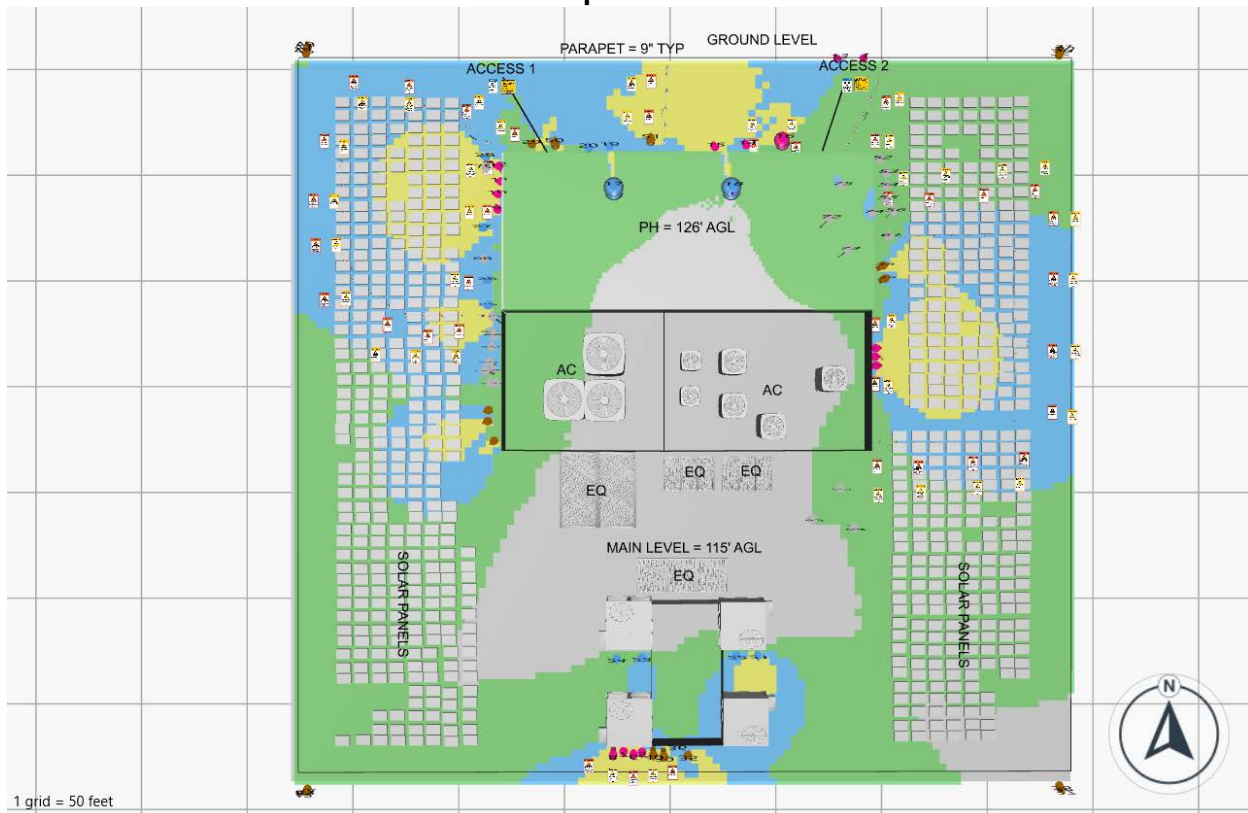
Note: Antennas #1 and #13 tagged with (P) under Antenna Make and Model are to be installed.



6 RF Exposure/Site Diagram

The following diagrams display the predictive RF exposure at the facility as well as the existing and/or new mitigation required for site compliance. If applicable, measurement locations are also displayed. See Appendix C for further explanation of the colors shown on the RF exposure diagram.

Composite View



Legend

Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
GROUND	0.0	Floor	2D Sula9 GP 2.5 res	3.08%	0.00	TMO, VZW, AT&T,...
MAIN	115.0	Floor	2D Sula9 GP 2.5 res	4805.56%	0.00	TMO, VZW, AT&T,...
PH	126.0	Floor	2D Sula9 GP 1.0 res	7377.35%	0.00	TMO, VZW, AT&T,...

5%-100%	100%-500%	500%-5000%	5000%+
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Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 2.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	2.5 ft3	1.0
2D Sula9 GP 1.0 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	1.0 ft3	1.0

TMO

AT&T

VZW

UNKNOWN

Mitigation

Existing

Proposed

Installed

To Remove

Max MPE

Grid Size: 50.00 feet

Floor = Elevation + 6' | Mid-Level = Elevation +/- 3'

Alpha and Beta Sectors Detailed View



Legend

Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
GROUND	0.0	Floor	2D Sula9 GP 2.5 res	3.08%	0.00	TMO
MAIN	115.0	Floor	2D Sula9 GP 2.5 res	4804.66%	0.00	TMO
PH	126.0	Floor	2D Sula9 GP 1.0 res	50.93%	0.00	TMO

5%-100%	100%-500%	500%-5000%	5000%+
---------	-----------	------------	--------

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 2.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	2.5 ft3	1.0
2D Sula9 GP 1.0 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	1.0 ft3	1.0

TMO

AT&T

VZW

UNKNOWN

Mitigation

Existing

Proposed

Installed

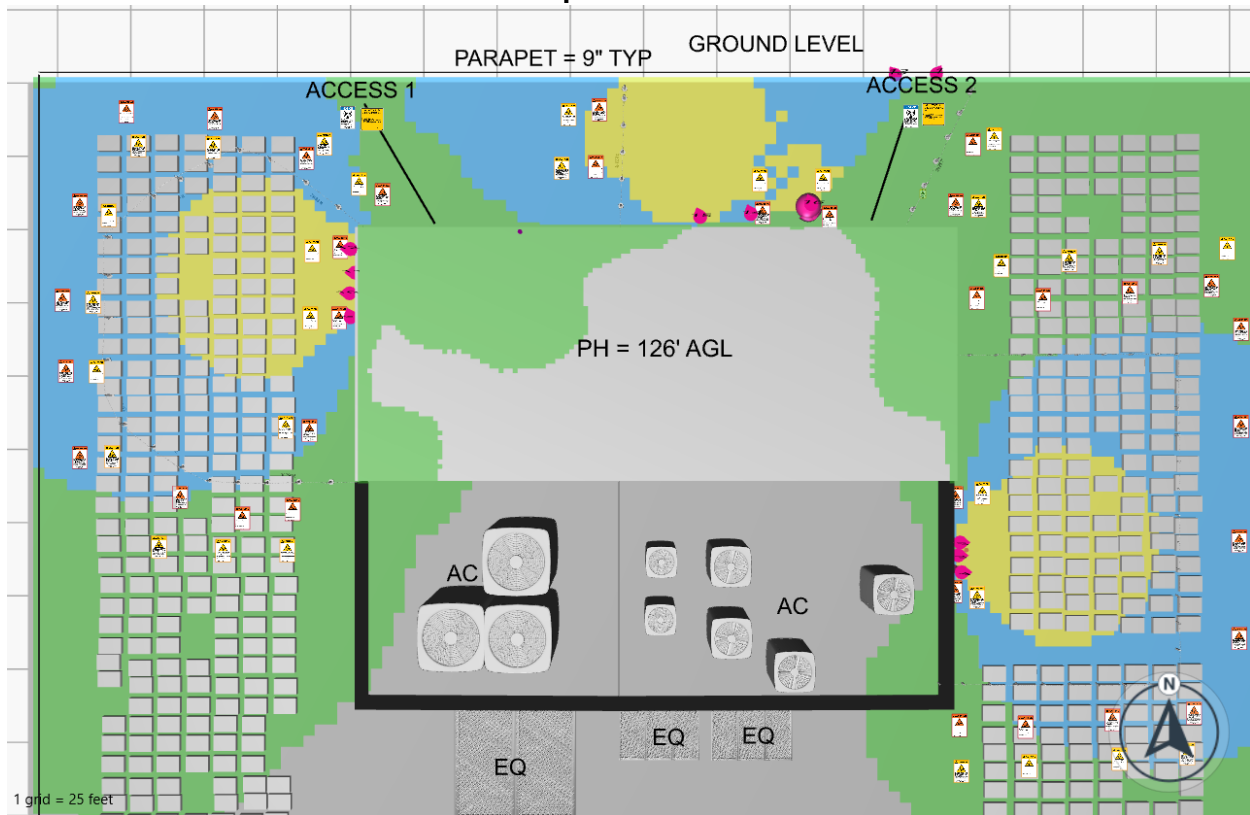
To Remove

Max MPE

Grid Size: 25.00 feet

Floor = Elevation + 6' | Mid-Level = Elevation +/- 3'

Gamma and Delta/Epsilon Sectors Detailed View



Legend

Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
GROUND	0.0	Floor	2D Sula9 GP 2.5 res	3.08%	0.00	TMO
MAIN	115.0	Floor	2D Sula9 GP 2.5 res	4804.66%	0.00	TMO
PH	126.0	Floor	2D Sula9 GP 1.0 res	50.93%	0.00	TMO

5%-100%	100%-500%	500%-5000%	5000%+
---------	-----------	------------	--------

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 2.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	2.5 ft3	1.0
2D Sula9 GP 1.0 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	1.0 ft3	1.0

TMO

AT&T

VZW

UNKNOWN

Mitigation

Existing

Proposed

Installed

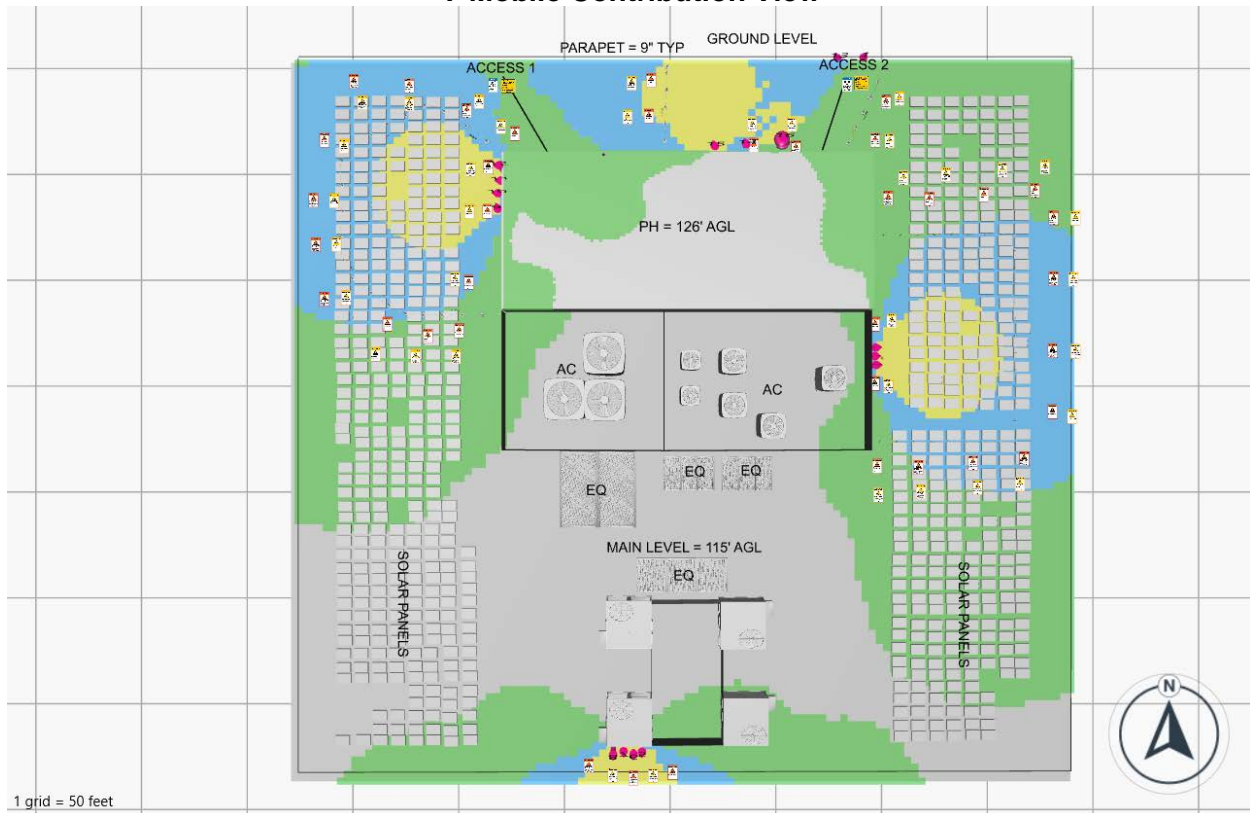
To Remove

Max MPE

Grid Size: 25.00 feet

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'

T-Mobile Contribution View



Legend

Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
GROUND	0.0	Floor	2D Sula9 GP 2.5 res	3.08%	0.00	TMO
MAIN	115.0	Floor	2D Sula9 GP 2.5 res	4804.66%	0.00	TMO
PH	126.0	Floor	2D Sula9 GP 1.0 res	50.93%	0.00	TMO

5%-100%	100%-500%	500%-5000%	5000%+
---------	-----------	------------	--------

Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF
2D Sula9 GP 2.5 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	2.5 ft3	1.0
2D Sula9 GP 1.0 res	Sula 9	Spatial Avg. (6 ft)	FCC General Public	1.0 ft3	1.0

TMO

AT&T

VZW

UNKNOWN

Mitigation

Existing

Proposed

Installed

To Remove

Max MPE

Grid Size: 50.00 feet

Floor = Elevation +6' | Mid-Level = Elevation +/- 3'



7 Engineer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms:

That I, Michael A. McGuire, P.E., 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™; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Sophie Thein.

June 4, 2025

Appendix A - Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible for taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

Gain (of an antenna) – The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power density at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. Gain may be considered for a specified polarization. Gain may be referenced to an isotropic antenna (dBi) or a half-wave dipole (dBd) antenna.

General Population/Uncontrolled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are *unaware* of the potential for exposure and who have no control over their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of “Generic” as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe™ will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.



Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are **aware** of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC’s Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

OSHA (Occupational Safety and Health Administration) – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA’s role is to promote the safety and health of America’s working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency Exposure or Electromagnetic Fields – Electromagnetic waves that are propagated from antennas through space.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy a 6-foot tall human body will absorb while present in an electromagnetic field of energy.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter’s final radio frequency stage as measured at the output terminal while connected to a load.



Appendix B – Statement of Limiting Conditions

SiteSafe™ will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. SiteSafe™ cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e., mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by T-Mobile, the site manager, or their affiliates, subcontractors or assigns.

SiteSafe™ has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for SiteSafe™'s recommendations.

SiteSafe™ may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the survey of the subject property or that SiteSafe™ became aware of during the normal research involved in performing this survey. SiteSafe™ will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because SiteSafe™ is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

SiteSafe™ obtained information used in this Site Compliance Report from sources that SiteSafe™ considers reliable and believes them to be true and correct. SiteSafe™ does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by SiteSafe™, the physical data will be used.



Appendix C – RF Exposure Diagram Color Coding

The five color levels identified in this analysis can be interpreted in the following manner:

- **Gray** represents areas predicted to be at 5% or less of the General Public MPE limits. The general public and trained workers can access these areas with no restrictions.
- **Green** represents areas predicted to be between 5% and 100% of the General Public MPE limits. The general public and workers can access these areas with no restrictions.
- **Blue** represents areas predicted to be between 100% and 500% of the General Public MPE limits. The general public should be restricted from accessing these areas. Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure.
- **Yellow** represents areas predicted to be between 500% and 5000% of the General Public MPE limits. The General Public should be restricted from accessing these areas. Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure. Transmitter power reduction and/or time-averaging may be required.
- **Red** represents areas predicted to be greater than 5000% of the General Public MPE limits. The General Public should be restricted from accessing these areas. These areas are not safe for workers to be in for prolonged periods of time. Special procedures must be adhered to, such as lockout/tagout or transmitter power reduction, to minimize worker exposure to EME.

Keep a copy of this report available for all persons who must access the site. They should read this report and be aware of the potential hazards with regards to RF and MPE limits.