

CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY  
EXHIBIT H - TOLLING AGREEMENT

**MACKENZIE & ALBRITTON LLP**

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October 24, 2023

**VIA EMAIL**

David A. Livingston, Esq.  
County Counsel  
El Dorado County  
330 Fair Lane  
Placerville, California 95667

Re: Verizon Wireless Application CUP23-0010  
Wireless Telecommunications Facility, APN 117-084-005  
FCC Shot Clock Tolling Agreement: January 2, 2024

Dear David:

We write on behalf of Celco Partnership d/b/a Verizon Wireless ("Verizon Wireless") regarding the above-referenced application for a wireless telecommunications facility filed March 31, 2023 (the "Application"). Federal law obligates El Dorado County (the "County") to take final action on the Application within a specified time period unless the time period is extended by mutual consent. When countersigned, this letter will confirm an agreement between Verizon Wireless and the County that the time period for review of the Application under the federal Telecommunications Act is extended to January 2, 2024 (the "Extension Date").

The federal Telecommunications Act requires that local governments act on wireless facility siting applications "within a reasonable period of time." 47 U.S.C. § 332(c)(7)(B)(ii). According to FCC rules, the presumptively reasonable period of time is 150 days to act on an application to deploy a wireless facility using a new structure, plus the number of days it takes an applicant to respond to a timely notice of incomplete application. 47 C.F.R. § 1.6003. The time period for action on an application may be extended by mutual consent. 47 C.F.R. § 1.6003(d).

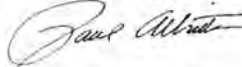
In order to allow the County to act on the Application, without either party risking the loss of important rights, the parties agree that the time period within which the County may act on the Application shall be extended through the Extension Date. The parties further agree that no limitations period for any claim of unreasonable or unlawful delay in processing the Application shall commence to run before the Extension Date.

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David A. Livingston, Esq.  
El Dorado County  
October 24, 2023  
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If you agree, this letter agreement may be executed in counterparts, and scanned or facsimile signatures shall be deemed equivalent to original signatures. I will appreciate your returning a countersigned copy to me at your convenience.

Sincerely,



Paul B. Albritton

cc: Jefferson Billingsley, Esq.  
Benjamin Koff, Associate Planner

**ACCEPTED AND AGREED TO:**

**El Dorado County**

By: \_\_\_\_\_

Printed name: Jefferson Billingsley

Title: Dep. County Counsel



Aerial photograph showing the viewpoints for the photosimulations.

**Golden Foothills**

4994 Hillsdale Circle  
El Dorado Hills, CA 95762



Site #295540





CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY  
EXHIBIT I - PHOTOSIMULATIONS

1

Stationary drone for height and placement



Existing

Photosimulation of the view looking northeast from the intersection of Palmdale Road at Carson Crossing Road.

**Golden Foothills**  
4994 Hillsdale Circle  
El Dorado Hills, CA 95762

**verizon** Site #295540

Proposed 100 ft monopine



Proposed

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EXHIBIT I - PHOTOSIMULATIONS

2



**Existing**

Photosimulation of the view looking south from the nearest point along Golden Foothill Parkway.

**Golden Foothills**

4994 Hillsdale Circle  
El Dorado Hills, CA 95762

**verizon**

Site #295540



**Proposed**



CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY  
EXHIBIT I - PHOTOSIMULATIONS

3

Stationary drone for height and placement



Existing

Photosimulation of the view looking southwest from Hillsdale Circle, in front of the subject property.

**Golden Foothills**  
4994 Hillsdale Circle  
El Dorado Hills, CA 95762

**verizon** Site #295540

Proposed 100 ft monopine



Proposed

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EXHIBIT I - PHOTOSIMULATIONS

4



**Existing**

Photosimulation of the view looking west from Latrobe Road.

**Golden Foothills**  
 4994 Hillsdale Circle  
 El Dorado Hills, CA 95762

**verizon** ✓ Site #295540



**Proposed**

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CUP23-0010/EDH VERIZON WIRELESS TELECOMMUNICATIONS FACILITY  
EXHIBIT I - PHOTOSIMULATIONS

5

Stationary drone for height and placement



Existing

Photosimulation of the view looking north-northeast along Carson Crossing Road.

**Golden Foothills**  
4994 Hillsdale Circle  
El Dorado Hills, CA 95762

**verizon** Site #295540

Proposed 100 ft monopine



Proposed





**WATERFORD**

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## Radio Frequency Emissions Compliance Report For Verizon Wireless

<b>Site Name:</b>	<b>Golden Foothills</b>	<b>Site Structure Type:</b>	<b>Monopine</b>
<b>Address:</b>	<b>4994 Hillside Circle</b>	<b>Latitude:</b>	<b>38.62461</b>
	<b>El Dorado Hills, CA 95762</b>	<b>Longitude:</b>	<b>-121.06307</b>
<b>Report Date:</b>	<b>September 9, 2022</b>	<b>Project:</b>	<b>Modification</b>

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### Compliance Statement

Based on information provided by Verizon Wireless and predictive modeling, the Golden Foothills installation proposed by Verizon Wireless will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings. As predicted RF power densities will not exceed the FCC General Population limits, no mitigation action other than restricting access to the tower is required to achieve or maintain compliance.

### Certification

I, David C. Cotton, Jr., am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



**David Charles Cotton, Jr.**  
**Registered Professional Engineer (Electrical)**  
**State of California, 18838**

### General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.



Golden Foothills – Modification.09.09.2022

Table 1: FCC Limits

Frequency (MHz)	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlled Exposure	
	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \text{ (mW/cm}^2\text{)}$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left( \frac{180}{\theta_{BW}} \right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2\text{)}$$

where P<sub>in</sub> is the power input to the antenna, θ<sub>BW</sub> is the horizontal pattern beamwidth and h is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures are expected to be less than the levels reported below. These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.



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## Analysis

Verizon Wireless proposes the following installation at this location:

- INSTALL (12) ANTENNAS.
- INSTALL (9) RADIOS @ THE ANTENNAS.

The antennas will be mounted on a 97' Monopine with centerlines 84', 92', and 93.7' above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.



Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all Verizon Wireless operations is 15.0285% of the FCC General Population limits. Incident at adjacent



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buildings depicted in Figure 1, the maximum predicted power density level resulting from all Verizon Wireless operations is 26.206% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings. As predicted RF power densities will not exceed the FCC General Population limits, no mitigation action other than restricting access to the tower is required to achieve or maintain compliance.

**Appendix A: Operating Parameters Considered in this Analysis**

Antenna #:	Carrier:	Manufacturer	Pattern:	Band (MHz):	Mech Az (deg):	Mech DT (deg):	H BW (deg):	Length (ft):	TPO (W):	Channels:	Loss (dB):	Gain (dBd):	ERP (W):	EIRP (W):	Rad Center (ft):
1	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	65	0	65	6	40	2	0	12.31	1362	2234	92
1	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	65	0	60	6	40	2	0	12.63	1466	2405	92
1	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	65	0	69	6	20	4	0	15.61	2911	4776	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	65	0	65	6	40	2	0	12.31	1362	2234	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	65	0	60	6	40	2	0	12.63	1466	2405	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	65	0	64	6	40	4	0	16.36	6920	11353	92
2	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	65	0	64	6	20	4	0	16.36	3460	5677	92
3	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	65	0	69	6	0	0	0	15.61	0	0	92
4	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	65	0	11	2.8	320	1	0	23.55	72469	118891	93.7
5	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	700	185	0	65	6	40	2	0	12.33	1368	2244	92
5	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	850	185	0	60	6	40	2	0	12.63	1466	2405	92
5	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	185	0	69	6	20	4	0	15.61	2911	4776	92
6	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	700	185	0	65	6	40	2	0	12.33	1368	2244	92
6	Verizon	COMMSCOPE	NHH-65B-R2B 04DT	850	185	0	60	6	40	2	0	12.63	1466	2405	92
6	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	185	0	64	6	40	4	0	16.36	6920	11353	92
6	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	185	0	64	6	20	4	0	16.36	3460	5677	92
7	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	185	0	69	6	0	0	0	15.61	0	0	92
8	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	185	0	11	2.8	320	1	0	23.55	72469	118891	93.7
9	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	305	0	65	6	40	2	0	12.31	1362	2234	92
9	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	305	0	60	6	40	2	0	12.63	1466	2405	92
9	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	305	0	69	6	20	4	0	15.61	2911	4776	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	700	305	0	65	6	40	2	0	12.31	1362	2234	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 03DT	850	305	0	60	6	40	2	0	12.63	1466	2405	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	305	0	64	6	40	4	0	16.36	6920	11353	92
10	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	2100	305	0	64	6	20	4	0	16.36	3460	5677	92
11	Verizon	COMMSCOPE	NHH-65B-R2B 02DT	1900	305	0	69	6	0	0	0	15.61	0	0	92
12	Verizon	ERICSSON	SON_AIR6449 NR TB 03.24.21 3700 VZW	3700	305	0	11	2.8	320	1	0	23.55	72469	118891	93.7
13	Verizon	ANDREW	VHLP4-11	11000	0	0	1.5	4	0.2	1	0	38.7	1462	2399	84

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Notes: Table depicts recommended operating parameters for Verizon Wireless proposed operations.