

Prepared By

**COMSEARCH**

21515 Ridgetop Circle, Suite 300  
Sterling, Va. 20166

(703)726-5500 <http://www.comsearch.com>

Prepared For

**SES Space & Defense  
MOUNTAIN VIEW, CA**

Temporary Transmit-Only Earth Station

Operation Dates: 01/31/2024 - 07/31/2024

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on November 16, 2024.

Company

AT&T Mobility Spectrum LLC - N CA  
Alameda County Water District  
Alameda County of California  
Broadcom Corporation  
CBS Broadcasting Inc  
CBS Communications Services Inc  
California Internet, L.P  
California RSA NO. 4 Limited Partnership  
California, State of  
City & County of San Francisco PUC  
City and County of San Francisco  
Contra Costa, County of  
County of Monterey  
County of Napa  
County of San Mateo  
Crystal Smr Inc.  
EXPOHL, LLC  
East Bay Municipal Utility District  
Encina Communications Corporation  
Encore Business Systems Inc.  
Etheric Networks, Inc.  
Federal Communication Commission  
Field, David J  
GTE Mobilnet of California LTD Partnersh  
Hearst Stations, Inc.  
Higher Ground LLC  
ION Television License, LLC  
KDTV License Partnership, G.P.  
KGO Television, Inc.  
KVIE, Inc.  
M.U.T. Licensing, LLC  
MHO Networks  
Marin, County of  
Merced, County of

Modesto Irrigation District  
Modesto Peace/Life Center  
Monterey County Superintendent of School  
Morgan Communications LLC  
NBC Telemundo License LLC  
NPG of Monterey-Salinas CA, LLC  
New Cingular Wireless PCS LLC - N CAL  
Olympic Wireless, LLC  
Pacific Bell Tel Com dba AT&T California  
Pacific Coast Wireless Internet  
Pacific Gas and Electric Company  
Radio License Holding CBC, LLC  
Radio License Holding SRC LLC  
Razzo Link, Inc  
Ridge Wireless  
Sacramento Municipal Utility District  
Sacramento Valley Limited Partnership  
Sacramento, County of  
Sail Internet  
San Francisco, City and County of  
San Joaquin County  
San Jose, City of (ECOMM)  
Santa Clara Valley Water District  
Santa Clara, County of  
Santa Clara, County of (SVRIA)  
Santa Cruz, County of  
Solano, County of  
Sonoma, County of CA  
T-Mobile License LLC  
The Internet Store, Inc.  
Union Pacific Railroad Company  
Wilink Spectrum Holdings LLC  
iHM Licenses, LLC

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

# COMSEARCH

## Earth Station Data Sheet

Date: 11/16/2023  
 Job Number: 231116COMSGE03

### Administrative Information

Status ENGINEER PROPOSAL  
 Call Sign TEMP07  
 Licensee Code SESSPD  
 Licensee Name SES Space & Defense

### Site Information

#### MOUNTAIN VIEW, CA

Venue Name  
 Latitude (NAD 83) 37° 24' 29.0" N  
 Longitude (NAD 83) 122° 4' 21.0" W  
 Climate Zone B  
 Rain Zone 4  
 Ground Elevation (AMSL) 12.06 m / 39.6 ft

### Link Information

Satellite Type Geostationary  
 Mode TO - Transmit-Only  
 Modulation Digital  
 Satellite Arc 87° W to 177° West Longitude  
 Azimuth Range 130.9° to 246.9°  
 Corresponding Elevation Angles 33.3° / 18.9°  
 Antenna Centerline (AGL) 0.91 m / 3.0 ft

### Antenna Information

#### Transmit - FCC32

Manufacturer Planet Labs  
 Model Helical Antenna  
 Gain / Diameter 12.0 dBi / 0.1 m (approximate)  
 3-dB / 15-dB Beamwidth 0.40° / 0.80°

Max Available RF Power (dBW/4 kHz) -21.0  
 (dBW/MHz) 3.0

Maximum EIRP (dBW/4 kHz) -9.0  
 (dBW/MHz) 15.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
 Short Term -131.0 dBW/4 kHz 0.0025%

### Frequency Information

#### Transmit 6.3 GHz

Emission / Frequency Range (MHz) 1M00G7W / 6262.0 - 6423.0

Max Great Circle Coordination Distance 170.0 km / 105.6 mi  
 Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

<b>Coordination Values</b>	<b>MOUNTAIN VIEW, CA</b>		
Licensee Name	SES Space & Defense		
Latitude (NAD 83)	37° 24' 29.0" N		
Longitude (NAD 83)	122° 4' 21.0" W		
Ground Elevation (AMSL)	12.06 m / 39.6 ft		
Antenna Centerline (AGL)	0.91 m / 3.0 ft		
Antenna Mode	Transmit 6.3 GHz		
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%	
Short Term	-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	-21.0 (dBW/4 kHz)		

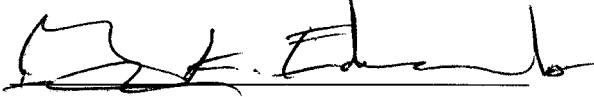
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	111.79	-10.00	157.97
5	0.00	116.46	-10.00	157.97
10	0.00	115.40	-10.00	157.97
15	0.00	111.39	-10.00	157.97
20	0.00	107.33	-10.00	157.97
25	0.00	103.21	-10.00	157.97
30	0.00	99.07	-10.00	157.97
35	0.00	94.90	-10.00	157.97
40	0.00	90.73	-10.00	157.97
45	0.00	86.55	-10.00	157.97
50	0.00	82.38	-10.00	157.97
55	0.00	78.23	-10.00	157.97
60	0.00	74.10	-10.00	157.97
65	0.00	70.02	-10.00	157.97
70	0.00	65.99	-10.00	157.97
75	0.00	62.03	-10.00	157.97
80	0.50	57.96	-10.00	123.73
85	1.30	53.80	-10.00	100.00
90	1.66	49.92	-10.00	100.00
95	4.03	45.01	-9.33	100.00
100	3.39	41.92	-8.56	100.00
105	1.79	39.90	-8.02	100.00
110	0.34	38.36	-7.60	149.72
115	2.46	34.31	-6.39	100.00
120	2.43	32.53	-5.81	100.00
125	2.39	31.39	-5.42	100.00
130	2.28	31.02	-5.29	100.00
135	0.30	33.22	-6.03	161.65
140	0.96	33.46	-6.11	112.71
145	1.35	34.61	-6.48	101.47
150	1.06	36.94	-7.19	106.51
155	0.87	39.51	-7.92	112.07
160	0.86	41.68	-8.50	111.33
165	0.57	43.69	-9.01	122.33
170	0.67	44.90	-9.31	116.36
175	0.50	45.87	-9.54	125.07
180	0.57	46.06	-9.58	120.60
185	0.67	45.69	-9.50	115.89

Coordination Values		MOUNTAIN VIEW, CA	
Licensee Name		SES Space & Defense	
Latitude (NAD 83)		37° 24' 29.0" N	
Longitude (NAD 83)		122° 4' 21.0" W	
Ground Elevation (AMSL)		12.06 m / 39.6 ft	
Antenna Centerline (AGL)		0.91 m / 3.0 ft	
Antenna Mode		Transmit 6.3 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-21.0 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.68	44.88	-9.30	115.80
195	0.90	43.38	-8.93	108.06
200	1.06	41.50	-8.45	103.24
205	1.13	39.30	-7.86	103.12
210	1.16	36.79	-7.14	104.37
215	1.11	34.04	-6.30	107.65
220	1.21	30.93	-5.26	108.16
225	1.06	27.80	-4.10	114.67
230	1.01	24.44	-2.70	117.82
235	1.01	21.41	-1.26	121.91
240	1.05	19.13	-0.04	124.47
245	1.13	17.90	0.68	124.62
250	1.02	18.17	0.52	127.10
255	0.93	19.69	-0.36	129.19
260	0.63	22.38	-1.74	143.46
265	0.71	25.47	-3.15	133.24
270	0.48	29.25	-4.65	144.19
275	0.37	33.26	-6.05	151.98
280	0.00	37.59	-7.38	170.01
285	0.00	41.90	-8.55	164.46
290	0.00	46.32	-9.64	159.54
295	0.00	50.83	-10.00	157.97
300	0.00	55.39	-10.00	157.97
305	0.44	59.92	-10.00	129.14
310	0.00	64.66	-10.00	157.97
315	0.26	69.31	-10.00	150.26
320	0.00	74.04	-10.00	157.97
325	0.00	78.75	-10.00	157.97
330	0.21	83.47	-10.00	156.05
335	0.31	88.20	-10.00	144.00
340	0.00	92.93	-10.00	157.97
345	0.00	97.66	-10.00	157.97
350	0.00	102.38	-10.00	157.97
355	0.00	107.09	-10.00	157.97

## Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY: 

Gary K. Edwards  
Senior Manager  
COMSEARCH  
21515 Ridgetop Circle, Suite 300  
Sterling, VA 20166

DATED: January 9, 2024

Prepared By

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City and County of San Francisco  
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County of Monterey  
County of Napa  
County of San Mateo  
Crystal Smr Inc.  
EXPOHL, LLC  
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Encina Communications Corporation  
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Merced, County of

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Modesto Peace/Life Center  
Monterey County Superintendent of School  
Morgan Communications LLC  
NBC Telemundo License LLC  
NPG of Monterey-Salinas CA, LLC  
New Cingular Wireless PCS LLC - N CAL  
Olympic Wireless, LLC  
Pacific Bell Tel Com dba AT&T California  
Pacific Coast Wireless Internet  
Pacific Gas and Electric Company  
Radio License Holding CBC, LLC  
Radio License Holding SRC LLC  
Razzo Link, Inc  
Ridge Wireless  
Sacramento Municipal Utility District  
Sacramento Valley Limited Partnership  
Sacramento, County of  
Sail Internet  
San Francisco, City and County of  
San Joaquin County  
San Jose, City of (ECOMM)  
Santa Clara Valley Water District  
Santa Clara, County of  
Santa Clara, County of (SVRIA)  
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Solano, County of  
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The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.



# COMSEARCH

## Earth Station Data Sheet

Date: 11/16/2023  
 Job Number: 231116COMSGE02

### Administrative Information

Status: TEMPORARY (Operation from 01/31/2024 to 07/31/2024)  
 Call Sign: TEMP07  
 Licensee Code: SESSPD  
 Licensee Name: SES Space & Defense

### Site Information

#### MOUNTAIN VIEW, CA

Venue Name  
 Latitude (NAD 83): 37° 24' 29.0" N  
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 Climate Zone: B  
 Rain Zone: 4  
 Ground Elevation (AMSL): 12.06 m / 39.6 ft

### Link Information

Satellite Type: Geostationary  
 Mode: TO - Transmit-Only  
 Modulation: Digital  
 Satellite Arc: 87° W to 177° West Longitude  
 Azimuth Range: 130.9° to 246.9°  
 Corresponding Elevation Angles: 33.3° / 18.9°  
 Antenna Centerline (AGL): 0.91 m / 3.0 ft

### Antenna Information

#### Transmit - FCC32

Manufacturer: Planet Labs  
 Model: Quadrifilar Helix  
 Gain / Diameter: 4.0 dBi / 1.0 m  
 3-dB / 15-dB Beamwidth: 0.40° / 0.80°

Max Available RF Power (dBW/4 kHz): -21.0  
 (dBW/MHz): 3.0

Maximum EIRP (dBW/4 kHz): -17.0  
 (dBW/MHz): 7.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
 Short Term: -131.0 dBW/4 kHz 0.0025%

### Frequency Information

#### Transmit 6.3 GHz

Emission / Frequency Range (MHz): 1M00G7W / 6262.0 - 6423.0

Max Great Circle Coordination Distance: 130.3 km / 81.0 mi  
 Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

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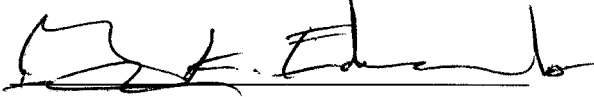
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65	0.00	70.02	-10.00	122.28
70	0.00	65.99	-10.00	122.28
75	0.00	62.03	-10.00	122.28
80	0.50	57.96	-10.00	100.00
85	1.30	53.80	-10.00	100.00
90	1.66	49.92	-10.00	100.00
95	4.03	45.01	-9.33	100.00
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125	2.39	31.39	-5.42	100.00
130	2.28	31.02	-5.29	100.00
135	0.30	33.22	-6.03	124.51
140	0.96	33.46	-6.11	100.00
145	1.35	34.61	-6.48	100.00
150	1.06	36.94	-7.19	100.00
155	0.87	39.51	-7.92	100.00
160	0.86	41.68	-8.50	100.00
165	0.57	43.69	-9.01	100.00
170	0.67	44.90	-9.31	100.00
175	0.50	45.87	-9.54	100.90
180	0.57	46.06	-9.58	100.00
185	0.67	45.69	-9.50	100.00

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240	1.05	19.13	-0.04	100.00
245	1.13	17.90	0.68	100.00
250	1.02	18.17	0.52	101.77
255	0.93	19.69	-0.36	103.54
260	0.63	22.38	-1.74	114.05
265	0.71	25.47	-3.15	106.92
270	0.48	29.25	-4.65	114.75
275	0.37	33.26	-6.05	118.10
280	0.00	37.59	-7.38	130.33
285	0.00	41.90	-8.55	126.59
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295	0.00	50.83	-10.00	122.28
300	0.00	55.39	-10.00	122.28
305	0.44	59.92	-10.00	104.26
310	0.00	64.66	-10.00	122.28
315	0.26	69.31	-10.00	117.22
320	0.00	74.04	-10.00	122.28
325	0.00	78.75	-10.00	122.28
330	0.21	83.47	-10.00	121.01
335	0.31	88.20	-10.00	114.98
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350	0.00	102.38	-10.00	122.28
355	0.00	107.09	-10.00	122.28

## Certification

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BY: 

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Senior Manager  
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DATED: January 9, 2024