

Ka,Q/V-Band Earth Station – Brooklyn, NY.

Frequency Coordination Report

Ka, Q/V-Band

Receive: 37.5 – 42.5 GHz Transmit: 27.5 – 31.0 GHz, 47.2 – 50.2, 50.4 – 52.4 GHz



Prepared on Behalf of
SPACE EXPLORATION
HOLDINGS

June 22, 2026



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1. Summary of Results

On behalf of SPACE EXPLORATION HOLDINGS, Comsearch performed a coordination notice under Section 25.203(c) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka, Q/V-band earth station in Brooklyn, NY which will receive at 40 GHz and transmit at 28 and 50 GHz¹. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on June 19, 2026.

There are no unresolved objections from any of the incumbent 28/40/50 GHz licensees.

2. 28/40/50 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka, Q/V-band earth station in Brooklyn, NY was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28/40/50 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
None Identified	

A notification letter and datasheets for the Ka, Q/V-band earth station in Brooklyn, NY were also sent to the following 40 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 38.6 – 40.0 GHz on a market basis.

Licensee	Authorized Geographic Area
DCI II Inc	Nationwide

No objections were received from the common carrier or LTTS incumbents.

¹ The proposed earth station will receive in the 37.5 – 42.5 GHz & transmit in the 47.2-50.2 GHz / 50.4-52.4 GHz portion of the Q/V-Band. Ka-band transmissions will be in the 27.5 – 31.0 GHz band.

3. 28/40/50 GHz UMFUS Coordination

There were nine 28/40/50 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

27.5 GHz – 31.0 GHz
37.5 GHz – 42.5 GHz
47.2 GHz – 50.2 GHz

Licensee	Authorized Geographic Area
AT&T	Market Based
GeoLinks	Market Based
DISH Network	Market Based
Columbia Capital	Market Based
Jump	Market Based
McKay Brothers	Market Based
T-Mobile	Market Based
Scientel Solutions	Market Based
Verizon*	Market Based

*Verizon objected to this coordination with their systems operating in the 27.5 – 28.35 GHz and 37.6 – 38.7 GHz spectrum.

There were no other objections from the UMFUS incumbents within the coordination distance at the end of the coordination period.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka, Q/V-band earth station in Brooklyn, NY. This data was circulated to all incumbent licensees in the shared 28/40/50 GHz frequency ranges.

Date:	05/20/2026		
Job Number:	260520COMSGE03		
Administrative Information			
Status	ENGINEER PROPOSAL		
Call Sign			
Licensee Code	SPACEX		
Licensee Name	SpaceX Services, Inc		
Site Information			
Venue Name	BROOKLYN, NY STEINER STUDIO		
Latitude (NAD 83)	40° 42' 6.4" N		
Longitude (NAD 83)	73° 57' 53.3" W		
Climate Zone	A		
Rain Zone	2		
Ground Elevation (AMSL)	3.0 m / 9.8 ft		
Link Information			
Satellite Type	Low Earth Orbit		
Mode	TR - Transmit-Receive		
Antenna Count	40		
Modulation	Digital		
Minimum Elevation Angle	10.0°		
Azimuth Range	0.0° to 360°		
Antenna Centerline (AGL)	18.4 m / 60.4 ft		
Antenna Information		Receive - FCC32	Transmit - FCC32
Manufacturer		SpaceX	SpaceX
Model		1.99 meter	1.99 meter
Gain / Diameter		50.0 dBi / 2.0 m	53.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth		0.50° / 1.00°	0.30° / 0.60°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)		-40.8 -16.8
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)		13.1 37.1
Aggregate EIRP	(dBW/MHz)		37.1
Interference Objectives:	Long Term Short Term	-156.0 dBW/MHz -146.0 dBW/MHz	20% 0.01%
			-151.0 dBW/4 kHz 20% -128.0 dBW/4 kHz 0.0025%
Frequency Information		Receive 18.0 GHz	Transmit 28.0 GHz
Emission / Frequency Range (MHz)		60M0D7W - 480MD7W / 17300.0 - 17800.0 60M0D7W - 480MD7W / 17800.0 - 18600.0 60M0D7W - 480MD7W / 18600.0 - 18800.0 60M0D7W - 480MD7W / 18800.0 - 19300.0 60M0D7W - 480MD7W / 19300.0 - 19700.0 60M0D7W - 480MD7W / 19700.0 - 20200.0 60M0D7W - 480MD7W / 20200.0 - 21200.0	60M0D7W - 480MD7W / 27500.0 - 29100.0 60M0D7W - 480MD7W / 29100.0 - 29500.0 60M0D7W - 480MD7W / 29500.0 - 30000.0 60M0D7W - 480MD7W / 30000.0 - 31000.0
Max Great Circle Coordination Distance		225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius		100.0 km / 62.1 mi	100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Brooklyn, NY
Frequency Coordination Report
28/40/50 GHz

Coordination Values			BROOKLYN, NY			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			40° 42' 6.4" N			
Longitude (NAD 83)			73° 57' 53.3" W			
Ground Elevation (AMSL)			3.0 m / 9.8 ft			
Antenna Centerline (AGL)			18.4 m / 60.4 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term		-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	100.60	0.00	225.00	0.00	100.00
5	0.00	95.61	0.00	225.00	0.00	100.00
10	0.00	90.62	0.00	225.00	0.00	100.00
15	0.00	85.63	0.00	225.00	0.00	100.00
20	0.00	80.63	0.00	225.00	0.00	100.00
25	0.00	75.64	0.00	225.00	0.00	100.00
30	0.00	70.65	0.00	225.00	0.00	100.00
35	0.00	65.66	0.00	225.00	0.00	100.00
40	0.00	60.67	0.00	225.00	0.00	100.00
45	0.00	55.69	0.00	225.00	0.00	100.00
50	0.00	50.70	0.00	225.00	0.00	100.00
55	0.00	45.72	0.00	225.00	0.00	100.00
60	0.00	40.74	0.00	225.00	0.00	100.00
65	0.00	35.76	0.00	225.00	0.00	100.00
70	0.00	30.79	0.00	225.00	0.00	100.00
75	0.22	25.80	0.00	225.00	0.00	100.00
80	0.00	20.89	0.00	225.00	0.00	100.00
85	0.00	15.98	0.00	225.00	0.00	100.00
90	0.00	11.14	0.00	225.00	0.00	100.00
95	0.22	6.46	0.00	225.00	0.00	100.00
100	0.24	3.23	0.00	225.00	0.00	100.00
105	0.23	5.41	0.00	225.00	0.00	100.00
110	0.23	9.90	0.00	225.00	0.00	100.00
115	0.00	14.77	0.00	225.00	0.00	100.00
120	0.00	19.67	0.00	225.00	0.00	100.00
125	0.00	24.60	0.00	225.00	0.00	100.00
130	0.00	29.56	0.00	225.00	0.00	100.00
135	0.00	34.53	0.00	225.00	0.00	100.00
140	0.00	39.51	0.00	225.00	0.00	100.00
145	0.00	44.49	0.00	225.00	0.00	100.00
150	0.00	49.47	0.00	225.00	0.00	100.00
155	0.00	54.45	0.00	225.00	0.00	100.00
160	0.00	59.44	0.00	225.00	0.00	100.00
165	0.32	64.42	0.00	225.00	0.00	100.00
170	0.32	69.41	0.00	225.00	0.00	100.00
175	0.39	74.40	0.00	225.00	0.00	100.00
180	0.50	79.40	0.00	225.00	0.00	100.00
185	0.47	84.39	0.00	225.00	0.00	100.00

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Frequency Coordination Report
28/40/50 GHz

Coordination Values			BROOKLYN, NY			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			40° 42' 6.4" N			
Longitude (NAD 83)			73° 57' 53.3" W			
Ground Elevation (AMSL)			3.0 m / 9.8 ft			
Antenna Centerline (AGL)			18.4 m / 60.4 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term			-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term			-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power			-40.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.41	89.38	0.00	225.00	0.00	100.00
195	0.33	94.38	0.00	225.00	0.00	100.00
200	0.34	99.37	0.00	225.00	0.00	100.00
205	0.29	104.36	0.00	225.00	0.00	100.00
210	0.21	109.35	0.00	225.00	0.00	100.00
215	0.00	114.34	0.00	225.00	0.00	100.00
220	0.40	119.34	0.00	225.00	0.00	100.00
225	0.00	124.31	0.00	225.00	0.00	100.00
230	0.00	129.30	0.00	225.00	0.00	100.00
235	0.00	134.28	0.00	225.00	0.00	100.00
240	0.00	139.26	0.00	225.00	0.00	100.00
245	0.00	144.24	0.00	225.00	0.00	100.00
250	0.00	149.21	0.00	225.00	0.00	100.00
255	0.00	154.17	0.00	225.00	0.00	100.00
260	0.00	159.11	0.00	225.00	0.00	100.00
265	0.00	164.02	0.00	225.00	0.00	100.00
270	0.00	168.86	0.00	225.00	0.00	100.00
275	0.00	173.43	0.00	225.00	0.00	100.00
280	0.00	176.54	0.00	225.00	0.00	100.00
285	0.00	174.45	0.00	225.00	0.00	100.00
290	0.00	170.02	0.00	225.00	0.00	100.00
295	0.00	165.23	0.00	225.00	0.00	100.00
300	0.00	160.33	0.00	225.00	0.00	100.00
305	0.00	155.40	0.00	225.00	0.00	100.00
310	0.00	150.44	0.00	225.00	0.00	100.00
315	0.00	145.47	0.00	225.00	0.00	100.00
320	0.00	140.50	0.00	225.00	0.00	100.00
325	0.00	135.51	0.00	225.00	0.00	100.00
330	0.00	130.53	0.00	225.00	0.00	100.00
335	0.00	125.55	0.00	225.00	0.00	100.00
340	0.00	120.56	0.00	225.00	0.00	100.00
345	0.00	115.57	0.00	225.00	0.00	100.00
350	0.00	110.58	0.00	225.00	0.00	100.00
355	0.00	105.59	0.00	225.00	0.00	100.00

Date: 05/20/2026
Job Number: 260520COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

BROOKLYN, NY
Venue Name: STEINER STUDIO
Latitude (NAD 83): 40° 42' 6.4" N
Longitude (NAD 83): 73° 57' 53.3" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 3.0 m / 9.8 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 18.4 m / 60.4 ft

Antenna Information

Manufacturer: SpaceX
Model: 1.99 meter
Gain / Diameter: 55.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.25° / 0.50°

Receive - FCC32

SpaceX
1.99 meter
55.9 dBi / 2.0 m
0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): -47.8
(dBW/MHz): -23.8

Maximum EIRP (dBW/4 kHz): 10.3
(dBW/MHz): 34.3

Aggregate EIRP (dBW/MHz): 34.3

Interference Objectives: Long Term: -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term: -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz):
Receive 40.0 GHz: 60M0D7W - 480MD7W / 37500.0 - 42500.0
Transmit 50.0 GHz: 60M0D7W - 480MD7W / 47200.0 - 50200.0
60M0D7W - 480MD7W / 50400.0 - 51400.0
60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance: 225.0 km / 139.8 mi 100.0 km / 62.1 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi 100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
Ka, Q/V-Band Earth Station – Brooklyn, NY
Frequency Coordination Report
28/40/50 GHz

Coordination Values		BROOKLYN, NY				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		40° 42' 6.4" N				
Longitude (NAD 83)		73° 57' 53.3" W				
Ground Elevation (AMSL)		3.0 m / 9.8 ft				
Antenna Centerline (AGL)		18.4 m / 60.4 ft				
Antenna Model		SpaceX 1.99 meter				
Antenna Mode		Receive 40.0 GHz		Transmit 50.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-47.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	100.60	0.00	225.00	0.00	100.00
5	0.00	95.61	0.00	225.00	0.00	100.00
10	0.00	90.62	0.00	225.00	0.00	100.00
15	0.00	85.63	0.00	225.00	0.00	100.00
20	0.00	80.63	0.00	225.00	0.00	100.00
25	0.00	75.64	0.00	225.00	0.00	100.00
30	0.00	70.65	0.00	225.00	0.00	100.00
35	0.00	65.66	0.00	225.00	0.00	100.00
40	0.00	60.67	0.00	225.00	0.00	100.00
45	0.00	55.69	0.00	225.00	0.00	100.00
50	0.00	50.70	0.00	225.00	0.00	100.00
55	0.00	45.72	0.00	225.00	0.00	100.00
60	0.00	40.74	0.00	225.00	0.00	100.00
65	0.00	35.76	0.00	225.00	0.00	100.00
70	0.00	30.79	0.00	225.00	0.00	100.00
75	0.22	25.80	0.00	225.00	0.00	100.00
80	0.00	20.89	0.00	225.00	0.00	100.00
85	0.00	15.98	0.00	225.00	0.00	100.00
90	0.00	11.14	0.00	225.00	0.00	100.00
95	0.22	6.46	0.00	225.00	0.00	100.00
100	0.24	3.23	0.00	225.00	0.00	100.00
105	0.23	5.41	0.00	225.00	0.00	100.00
110	0.23	9.90	0.00	225.00	0.00	100.00
115	0.00	14.77	0.00	225.00	0.00	100.00
120	0.00	19.67	0.00	225.00	0.00	100.00
125	0.00	24.60	0.00	225.00	0.00	100.00
130	0.00	29.56	0.00	225.00	0.00	100.00
135	0.00	34.53	0.00	225.00	0.00	100.00
140	0.00	39.51	0.00	225.00	0.00	100.00
145	0.00	44.49	0.00	225.00	0.00	100.00
150	0.00	49.47	0.00	225.00	0.00	100.00
155	0.00	54.45	0.00	225.00	0.00	100.00
160	0.00	59.44	0.00	225.00	0.00	100.00
165	0.32	64.42	0.00	225.00	0.00	100.00
170	0.32	69.41	0.00	225.00	0.00	100.00
175	0.39	74.40	0.00	225.00	0.00	100.00
180	0.50	79.40	0.00	225.00	0.00	100.00
185	0.47	84.39	0.00	225.00	0.00	100.00

SPACE EXPLORATION HOLDINGS
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Frequency Coordination Report
28/40/50 GHz

Coordination Values			BROOKLYN, NY			
Licensee Name			SpaceX Services, Inc			
Latitude (NAD 83)			40° 42' 6.4" N			
Longitude (NAD 83)			73° 57' 53.3" W			
Ground Elevation (AMSL)			3.0 m / 9.8 ft			
Antenna Centerline (AGL)			18.4 m / 60.4 ft			
Antenna Model			SpaceX 1.99 meter			
Antenna Mode			Receive 40.0 GHz		Transmit 50.0 GHz	
Interference Objectives:			Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
			Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-47.8 (dBW/4 kHz)			
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.41	89.38	0.00	225.00	0.00	100.00
195	0.33	94.38	0.00	225.00	0.00	100.00
200	0.34	99.37	0.00	225.00	0.00	100.00
205	0.29	104.36	0.00	225.00	0.00	100.00
210	0.21	109.35	0.00	225.00	0.00	100.00
215	0.00	114.34	0.00	225.00	0.00	100.00
220	0.40	119.34	0.00	225.00	0.00	100.00
225	0.00	124.31	0.00	225.00	0.00	100.00
230	0.00	129.30	0.00	225.00	0.00	100.00
235	0.00	134.28	0.00	225.00	0.00	100.00
240	0.00	139.26	0.00	225.00	0.00	100.00
245	0.00	144.24	0.00	225.00	0.00	100.00
250	0.00	149.21	0.00	225.00	0.00	100.00
255	0.00	154.17	0.00	225.00	0.00	100.00
260	0.00	159.11	0.00	225.00	0.00	100.00
265	0.00	164.02	0.00	225.00	0.00	100.00
270	0.00	168.86	0.00	225.00	0.00	100.00
275	0.00	173.43	0.00	225.00	0.00	100.00
280	0.00	176.54	0.00	225.00	0.00	100.00
285	0.00	174.45	0.00	225.00	0.00	100.00
290	0.00	170.02	0.00	225.00	0.00	100.00
295	0.00	165.23	0.00	225.00	0.00	100.00
300	0.00	160.33	0.00	225.00	0.00	100.00
305	0.00	155.40	0.00	225.00	0.00	100.00
310	0.00	150.44	0.00	225.00	0.00	100.00
315	0.00	145.47	0.00	225.00	0.00	100.00
320	0.00	140.50	0.00	225.00	0.00	100.00
325	0.00	135.51	0.00	225.00	0.00	100.00
330	0.00	130.53	0.00	225.00	0.00	100.00
335	0.00	125.55	0.00	225.00	0.00	100.00
340	0.00	120.56	0.00	225.00	0.00	100.00
345	0.00	115.57	0.00	225.00	0.00	100.00
350	0.00	110.58	0.00	225.00	0.00	100.00
355	0.00	105.59	0.00	225.00	0.00	100.00



5. Contact Information

For questions or information regarding the Ka, Q/V-band Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
Telephone:	703-726-5662
Email:	GEdwards@Comsearch.com
Web site:	www.comsearch.com

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
SpaceX Services, Inc
BROOKLYN, NY
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
June 22, 2026

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 05/20/2026.

Company

AT&T Corp.
AT&T Enterprises, LLC
AT&T Mobility Spectrum LLC - NY NJ DE
AT&T Services, Inc.
Abington Heights School District
Allentown, City of
Altius Communications
Atlantic City Housing Authority
Atlantic, County of
Audacy License, LLC
Barnegat Township
Bergen, County of - Public Safety Dept
Berlin, Town of
Bloomfield Center Fire District
Blueline Comm
Borough of Fort Lee, New Jersey
Borough of Sayreville
Broome County Information Technology
Business Only Broadband, LLC
CBS Broadcasting Inc
CSC Holdings LLC
Camden County Metro Police
Cape May County Municipal Utilities Auth
Cape May, County of
Cellco Partnership - (W-NY)
Cellco Partnership - E-MA, NH, RI
Cellco Partnership- Eastern PA Region
Centerport Fire District
Central Hudson Gas & Electric Corp.
Chevra Hatzalah Inc.
City of Albany (NY)
City of Bethlehem
City of Jersey City
City of Jersey City - IT Department
City of Jersey City, Police Department
City of Westfield
City of Yonkers, NY (Dept of Public Works)
Cliffside Park Police Department
Cobham Advanced Electronic Solutions Inc
Community Products, LLC

Connecticut, State of - Correction Dept
Conterra Ultra Broadband, LLC
County of Camden
County of Hunterdon
County of Mercer
Cumberland County, New Jersey
Delaware Division of Communications
Delaware River Port Authority
Delmarva Power and Light Company
Dish Wireless LLC
ECW Wireless, LLC
East Hampton, Town of
East Windsor, Town Of
Egg Harbor Township, Board of Education
Elmont Fire District
Enoch Pratt Free Library
Freehold Township Police Department
Gravel Hill Holdings
Greater Boston Radio Inc.
Greenlight Networks Southern Tier, LLC
Greenwich, Town of (CT)
Guard Insurance Group
HUDSON VALLEY WIRELESS
Hauppauge Fire District
Hispanic Information and Telecomm Netwrk
Hoboken Fire Department
Holtec Decommissioning International, LL
Holyoke, City of
Holyoke, City of
Honest Networks, Inc.
Hudson County Div of Roads and Public Pr
Hudson County MIS Department
ICON Technologies Inc.
Jackson Twp. Police Department
Jefferson Microwave, LLC
Keystone Communications
Lackawanna County Dept. of Emergency Ser
Lackawanna, County of
Lakewood Municipal Utilities Authority
Lawrence UFSD
Lightpath Fiber Infrastructure LLC
Little Egg Harbor Twp Police
Long Island Railroad
Ludlow, Town of
MPS Communications
Mahwah Township New Jersey
Manchester, Town of
Massachusetts, Commonwealth of
Meriden, City Of
Mid-Hudson Cablevision
Middlesex, County of
Middletown, City of
Moose Brothers, LLC
Mount Sinai Hospital
NBC Telemundo License LLC
NW Technologies, LLC

NYC DOT Staten Island Ferry
NYC OTI - Office of Tech & Innovation
Nassau County Government
Nassau County Police Department
Neptune Police Department
New Cingular Wireless PCS LLC - NJ
New Cingular Wireless PCS LLC - MA
New Cingular Wireless PCS, LLC (NY)
New Cingular Wireless PCS, LLC - PA
New Jersey, State of - NJ Transit
New Line Networks, LLC
New York City Police Department
New York City Police Department TARU
New York City Transit Authority
New York Communications Co., Inc
New York Methodist Hospital
New York Power Authority
New York SMSA Limited Partnership
New York State Thruway Authority
New York, State of Div of State Police
Newark, City of
Newark, City of-Police Dept
Northport Fire Department
Ocean County of - Div of Wireless Tech.
Ocean, County of
Otsego, County of
Parsippany Troy Hills Township
Pennsylvania American Water Company
Philadelphia, City of
Pierce Broadband, LLC
Plexicomm, LLC
Plymouth Township Police Department
Portland, Town of
Reading Hospital & Medical Center
Redwave Wireless
Rutgers, The State University of N.J.
Sachem Central School District
Secom Net
Sesame Workshop
Simsbury Fire District
SkyPacket Networks Inc.
Sonshine Family Television Corporation
South Windsor Police
Southbridge, Fire Department
Southbridge, Town of
Spectrumwave, LLC
Springfield, City of
St. Joseph Medical Center
State of Connecticut
State of New Jersey
Sullivan County DPW
T-Mobile MW LLC
The Boeing Company
Towerstream Corp.
Town of Greenburgh
Town of Hempstead Water Department

Town of Simsbury
Town of Smithtown Dept of Public Safety
Town of West Springfield
Town of Westport Connecticut
Town of Wethersfield
Township Of Piscataway
Township of Aberdeen
Township of Lakewood
Township of Lower Merion
Township of Middletown
Vernon Police Department
Vernon, Town of
WABC Television (New York), LLC
WPHL, LLC
Weblin Holdings LLC
Weehawken, Township of
West Islip Fire District
West Orange, Township of
Westchester, County of
Widmo Holdings LLC
Wilbraham Police Department
Willimantic Switchboard Association
Windsor Town Connecticut
Xchange Telecom Corporation
Yale University
Zeta Broadband, Inc.
iHM Licenses, LLC
xWave Engineering LLC

4. EARTH STATION COORDINATION DATA

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

COMSEARCH

Earth Station Data Sheet

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Date: 05/20/2026
Job Number: 260520COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

BROOKLYN, NY
Venue Name: STEINER STUDIO
Latitude (NAD 83): 40° 42' 6.4" N
Longitude (NAD 83): 73° 57' 53.3" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 3.0 m / 9.8 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 18.4 m / 60.4 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.99 meter
50.0 dBi / 2.0 m
0.50° / 1.00°

Transmit - FCC32

SpaceX
1.99 meter
53.9 dBi / 2.0 m
0.30° / 0.60°

Max Available RF Power (dBW/4 kHz): -40.8
(dBW/MHz): -16.8

Maximum EIRP (dBW/4 kHz): 13.1
(dBW/MHz): 37.1

Aggregate EIRP (dBW/MHz): 37.1

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 18.0 GHz

60M0D7W - 480MD7W / 17300.0 - 17800.0
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18600.0 - 18800.0
60M0D7W - 480MD7W / 18800.0 - 19300.0
60M0D7W - 480MD7W / 19300.0 - 19700.0
60M0D7W - 480MD7W / 19700.0 - 20200.0
60M0D7W - 480MD7W / 20200.0 - 21200.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29100.0 - 29500.0
60M0D7W - 480MD7W / 29500.0 - 30000.0
60M0D7W - 480MD7W / 30000.0 - 31000.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
 (703)726-5662 <http://www.comsearch.com>

Coordination Values		BROOKLYN, NY			
Licensee Name		SpaceX Services, Inc			
Latitude (NAD 83)		40° 42' 6.4" N			
Longitude (NAD 83)		73° 57' 53.3" W			
Ground Elevation (AMSL)		3.0 m / 9.8 ft			
Antenna Centerline (AGL)		18.4 m / 60.4 ft			
Antenna Model		SpaceX 1.99 meter			
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-40.8 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	100.60	0.00	225.00	0.00	100.00
5	0.00	95.61	0.00	225.00	0.00	100.00
10	0.00	90.62	0.00	225.00	0.00	100.00
15	0.00	85.63	0.00	225.00	0.00	100.00
20	0.00	80.63	0.00	225.00	0.00	100.00
25	0.00	75.64	0.00	225.00	0.00	100.00
30	0.00	70.65	0.00	225.00	0.00	100.00
35	0.00	65.66	0.00	225.00	0.00	100.00
40	0.00	60.67	0.00	225.00	0.00	100.00
45	0.00	55.69	0.00	225.00	0.00	100.00
50	0.00	50.70	0.00	225.00	0.00	100.00
55	0.00	45.72	0.00	225.00	0.00	100.00
60	0.00	40.74	0.00	225.00	0.00	100.00
65	0.00	35.76	0.00	225.00	0.00	100.00
70	0.00	30.79	0.00	225.00	0.00	100.00
75	0.22	25.80	0.00	225.00	0.00	100.00
80	0.00	20.89	0.00	225.00	0.00	100.00
85	0.00	15.98	0.00	225.00	0.00	100.00
90	0.00	11.14	0.00	225.00	0.00	100.00
95	0.22	6.46	0.00	225.00	0.00	100.00
100	0.24	3.23	0.00	225.00	0.00	100.00
105	0.23	5.41	0.00	225.00	0.00	100.00
110	0.23	9.90	0.00	225.00	0.00	100.00
115	0.00	14.77	0.00	225.00	0.00	100.00
120	0.00	19.67	0.00	225.00	0.00	100.00
125	0.00	24.60	0.00	225.00	0.00	100.00
130	0.00	29.56	0.00	225.00	0.00	100.00
135	0.00	34.53	0.00	225.00	0.00	100.00
140	0.00	39.51	0.00	225.00	0.00	100.00
145	0.00	44.49	0.00	225.00	0.00	100.00
150	0.00	49.47	0.00	225.00	0.00	100.00
155	0.00	54.45	0.00	225.00	0.00	100.00
160	0.00	59.44	0.00	225.00	0.00	100.00
165	0.32	64.42	0.00	225.00	0.00	100.00
170	0.32	69.41	0.00	225.00	0.00	100.00
175	0.39	74.40	0.00	225.00	0.00	100.00
180	0.50	79.40	0.00	225.00	0.00	100.00
185	0.47	84.39	0.00	225.00	0.00	100.00

COMSEARCH**Earth Station Data Sheet**

21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
(703)726-5662 <http://www.comsearch.com>

Coordination Values		BROOKLYN, NY			
Licensee Name	SpaceX Services, Inc				
Latitude (NAD 83)	40° 42' 6.4" N				
Longitude (NAD 83)	73° 57' 53.3" W				
Ground Elevation (AMSL)	3.0 m / 9.8 ft				
Antenna Centerline (AGL)	18.4 m / 60.4 ft				
Antenna Model	SpaceX 1.99 meter				
Antenna Mode	Receive 18.0 GHz		Transmit 28.0 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power	-40.8 (dBW/4 kHz)				

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.41	89.38	0.00	225.00	0.00	100.00
195	0.33	94.38	0.00	225.00	0.00	100.00
200	0.34	99.37	0.00	225.00	0.00	100.00
205	0.29	104.36	0.00	225.00	0.00	100.00
210	0.21	109.35	0.00	225.00	0.00	100.00
215	0.00	114.34	0.00	225.00	0.00	100.00
220	0.40	119.34	0.00	225.00	0.00	100.00
225	0.00	124.31	0.00	225.00	0.00	100.00
230	0.00	129.30	0.00	225.00	0.00	100.00
235	0.00	134.28	0.00	225.00	0.00	100.00
240	0.00	139.26	0.00	225.00	0.00	100.00
245	0.00	144.24	0.00	225.00	0.00	100.00
250	0.00	149.21	0.00	225.00	0.00	100.00
255	0.00	154.17	0.00	225.00	0.00	100.00
260	0.00	159.11	0.00	225.00	0.00	100.00
265	0.00	164.02	0.00	225.00	0.00	100.00
270	0.00	168.86	0.00	225.00	0.00	100.00
275	0.00	173.43	0.00	225.00	0.00	100.00
280	0.00	176.54	0.00	225.00	0.00	100.00
285	0.00	174.45	0.00	225.00	0.00	100.00
290	0.00	170.02	0.00	225.00	0.00	100.00
295	0.00	165.23	0.00	225.00	0.00	100.00
300	0.00	160.33	0.00	225.00	0.00	100.00
305	0.00	155.40	0.00	225.00	0.00	100.00
310	0.00	150.44	0.00	225.00	0.00	100.00
315	0.00	145.47	0.00	225.00	0.00	100.00
320	0.00	140.50	0.00	225.00	0.00	100.00
325	0.00	135.51	0.00	225.00	0.00	100.00
330	0.00	130.53	0.00	225.00	0.00	100.00
335	0.00	125.55	0.00	225.00	0.00	100.00
340	0.00	120.56	0.00	225.00	0.00	100.00
345	0.00	115.57	0.00	225.00	0.00	100.00
350	0.00	110.58	0.00	225.00	0.00	100.00
355	0.00	105.59	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 05/20/2026
Job Number: 260520COMSGE03

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

BROOKLYN, NY
Venue Name: STEINER STUDIO
Latitude (NAD 83): 40° 42' 6.4" N
Longitude (NAD 83): 73° 57' 53.3" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 3.0 m / 9.8 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 40
Modulation: Digital
Minimum Elevation Angle: 10.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 18.4 m / 60.4 ft

Antenna Information

Manufacturer: SpaceX
Model: 1.99 meter
Gain / Diameter: 55.9 dBi / 2.0 m
3-dB / 15-dB Beamwidth: 0.25° / 0.50°

Receive - FCC32

SpaceX
1.99 meter
55.9 dBi / 2.0 m
0.25° / 0.50°

Transmit - FCC32

SpaceX
1.99 meter
58.1 dBi / 2.0 m
0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): -47.8
(dBW/MHz): -23.8

Maximum EIRP (dBW/4 kHz): 10.3
(dBW/MHz): 34.3

Aggregate EIRP (dBW/MHz): 34.3

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)	Receive 40.0 GHz	Transmit 50.0 GHz
	60M0D7W - 480MD7W / 37500.0 - 42500.0	60M0D7W - 480MD7W / 47200.0 - 50200.0
		60M0D7W - 480MD7W / 50400.0 - 51400.0
		60M0D7W - 480MD7W / 51400.0 - 52400.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

BROOKLYN, NY

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 40° 42' 6.4" N
Longitude (NAD 83) 73° 57' 53.3" W
Ground Elevation (AMSL) 3.0 m / 9.8 ft
Antenna Centerline (AGL) 18.4 m / 60.4 ft
Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Transmit 50.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%

Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Max Available RF Power -47.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	100.60	0.00	225.00	0.00	100.00
5	0.00	95.61	0.00	225.00	0.00	100.00
10	0.00	90.62	0.00	225.00	0.00	100.00
15	0.00	85.63	0.00	225.00	0.00	100.00
20	0.00	80.63	0.00	225.00	0.00	100.00
25	0.00	75.64	0.00	225.00	0.00	100.00
30	0.00	70.65	0.00	225.00	0.00	100.00
35	0.00	65.66	0.00	225.00	0.00	100.00
40	0.00	60.67	0.00	225.00	0.00	100.00
45	0.00	55.69	0.00	225.00	0.00	100.00
50	0.00	50.70	0.00	225.00	0.00	100.00
55	0.00	45.72	0.00	225.00	0.00	100.00
60	0.00	40.74	0.00	225.00	0.00	100.00
65	0.00	35.76	0.00	225.00	0.00	100.00
70	0.00	30.79	0.00	225.00	0.00	100.00
75	0.22	25.80	0.00	225.00	0.00	100.00
80	0.00	20.89	0.00	225.00	0.00	100.00
85	0.00	15.98	0.00	225.00	0.00	100.00
90	0.00	11.14	0.00	225.00	0.00	100.00
95	0.22	6.46	0.00	225.00	0.00	100.00
100	0.24	3.23	0.00	225.00	0.00	100.00
105	0.23	5.41	0.00	225.00	0.00	100.00
110	0.23	9.90	0.00	225.00	0.00	100.00
115	0.00	14.77	0.00	225.00	0.00	100.00
120	0.00	19.67	0.00	225.00	0.00	100.00
125	0.00	24.60	0.00	225.00	0.00	100.00
130	0.00	29.56	0.00	225.00	0.00	100.00
135	0.00	34.53	0.00	225.00	0.00	100.00
140	0.00	39.51	0.00	225.00	0.00	100.00
145	0.00	44.49	0.00	225.00	0.00	100.00
150	0.00	49.47	0.00	225.00	0.00	100.00
155	0.00	54.45	0.00	225.00	0.00	100.00
160	0.00	59.44	0.00	225.00	0.00	100.00
165	0.32	64.42	0.00	225.00	0.00	100.00
170	0.32	69.41	0.00	225.00	0.00	100.00
175	0.39	74.40	0.00	225.00	0.00	100.00
180	0.50	79.40	0.00	225.00	0.00	100.00
185	0.47	84.39	0.00	225.00	0.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

BROOKLYN, NY

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 40° 42' 6.4" N
Longitude (NAD 83) 73° 57' 53.3" W
Ground Elevation (AMSL) 3.0 m / 9.8 ft
Antenna Centerline (AGL) 18.4 m / 60.4 ft
Antenna Model SpaceX 1.99 meter

Antenna Mode Receive 40.0 GHz

Transmit 50.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%

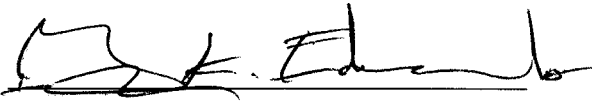
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%

Max Available RF Power -47.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 40.0 GHz		Transmit 50.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.41	89.38	0.00	225.00	0.00	100.00
195	0.33	94.38	0.00	225.00	0.00	100.00
200	0.34	99.37	0.00	225.00	0.00	100.00
205	0.29	104.36	0.00	225.00	0.00	100.00
210	0.21	109.35	0.00	225.00	0.00	100.00
215	0.00	114.34	0.00	225.00	0.00	100.00
220	0.40	119.34	0.00	225.00	0.00	100.00
225	0.00	124.31	0.00	225.00	0.00	100.00
230	0.00	129.30	0.00	225.00	0.00	100.00
235	0.00	134.28	0.00	225.00	0.00	100.00
240	0.00	139.26	0.00	225.00	0.00	100.00
245	0.00	144.24	0.00	225.00	0.00	100.00
250	0.00	149.21	0.00	225.00	0.00	100.00
255	0.00	154.17	0.00	225.00	0.00	100.00
260	0.00	159.11	0.00	225.00	0.00	100.00
265	0.00	164.02	0.00	225.00	0.00	100.00
270	0.00	168.86	0.00	225.00	0.00	100.00
275	0.00	173.43	0.00	225.00	0.00	100.00
280	0.00	176.54	0.00	225.00	0.00	100.00
285	0.00	174.45	0.00	225.00	0.00	100.00
290	0.00	170.02	0.00	225.00	0.00	100.00
295	0.00	165.23	0.00	225.00	0.00	100.00
300	0.00	160.33	0.00	225.00	0.00	100.00
305	0.00	155.40	0.00	225.00	0.00	100.00
310	0.00	150.44	0.00	225.00	0.00	100.00
315	0.00	145.47	0.00	225.00	0.00	100.00
320	0.00	140.50	0.00	225.00	0.00	100.00
325	0.00	135.51	0.00	225.00	0.00	100.00
330	0.00	130.53	0.00	225.00	0.00	100.00
335	0.00	125.55	0.00	225.00	0.00	100.00
340	0.00	120.56	0.00	225.00	0.00	100.00
345	0.00	115.57	0.00	225.00	0.00	100.00
350	0.00	110.58	0.00	225.00	0.00	100.00
355	0.00	105.59	0.00	225.00	0.00	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, 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: June 19, 2026



E-band Frequency Coordination Report
The “Steiner Studio” Gateway (Brooklyn, NY)
May 19, 2026



Summary

SpaceX performed a coordination notice under Section 25.203(c), Section 25.251, and Appendix 7 of the ITU's Radio Regulations. Prior-notification letters with earth station details were sent to potentially affected terrestrial licensees; a copy of these details are available in this report. The earth station coordination was finalized on June 03, 2026. No objections were received from any terrestrial licensees.

Methodology

SpaceX has completed an interference analysis based on accepted international and Commission methodologies demonstrating that this satellite earth station will not cause harmful interference to existing terrestrial facilities in the band. Specifically, for each known receiver within the great circle coordination distance surrounding the proposed earth station, SpaceX calculated the expected interference/noise ratio (I/N) to the receiver, assuming the SpaceX antenna properties listed on the following page, SpaceX site layout and design, free-space propagation without terrain or clutter, and actual characteristics of receiver(s) obtained from the 70/80/90 GHz link-registration database. Even under these conservative assumptions, SpaceX's analysis confirms that this earth station will not cause interference exceeding 1.0 dB of degradation to the static threshold of existing 70/80 GHz links within the great circle coordination distance.¹

Operators contacted

Prior-coordination letters were sent to the following operators:

1. 2pifi, Inc
2. AT&T Enterprises, LLC
3. Aerial Networks LLC
4. Arrow Networks, LLC
5. Asper, Timothy J
6. Aviat Networks
7. BOB, LLC
8. BOB, LLC dba Business Only Broadband
9. BSO NETWORK, INC.
10. Baker & Hostetler LLP
11. Central Wireless LLC
12. Ceragon Networks, Inc.
13. City of Jersey City, Department of IT
14. Communications Law Counsel, PLLC

¹ If there were any cases in which the interference threshold was exceeded in the conservative free-space analysis for any relevant receiver, SpaceX conducted an additional analysis with more realistic assumptions of terrain and clutter, under which the interference threshold was not exceeded for any relevant receiver. This further ensures that there will be no above-threshold interference to existing receivers.

15. Crown Castle Fiber LLC
16. DISH Wireless L.L.C.
17. Davis Wright Tremaine LLP
18. Eastern Dragon IT Services LLC
19. Electronic Service Solutions, Inc.
20. Ferguson, Edrick
21. Fiberless Networks Corporation
22. Geneva Communications LLC
23. Honest Networks, LLC
24. Keller and Heckman LLP
25. LightPointe Communications Inc
26. Micronet Communications, Inc.
27. Montville, Township of
28. Morgan Lewis & Bockius LLP
29. Morgan, Lewis & Bockius LLP
30. NYC MESH, INC.
31. New Jersey MSA LLC
32. New York City Police Department TARU
33. Nokia of America Corporation
34. People's Choice Communications
35. Point to Point Networks
36. R and A Cell Towers, LLC
37. REMEC Broadband Wireless Networks LLC DBA Bridgewave Communications
38. RK Squared, LLC
39. ResiBridge Inc
40. SIAE Microelettronica, Inc.
41. SW Networks
42. Siklu, Inc
43. Skywire LLC
44. SpaceX
45. T-MOBILE LICENSE LLC
46. Tatora, LLC
47. Towerstream Corp
48. Widmo Holdings LLC
49. Wild Canary Communications, LLC
50. Wireless Applications Corp
51. World Class Wireless LLC
52. XMG INC.
53. Xchange Telecom LLC
54. Yunity INC
55. Zayo Group, LLC
56. iHM Licenses, LLC



Frequency Coordination Report
E-Band Earth Station

Earth Station Data

This section presents the data that was circulated to all operators that met the criteria for notification for this earth station.

Site Information:

- Transmitting station name: The "Steiner Studio" Gateway
- Transmitting station coordinates: 40.70179, -73.9648
- Ground Elevation (AMSL): 19 m
- Antenna Count: 40
- Aggregate EIRP toward the horizon: -9 dBW/MHz

Frequency Information:

- Transmit: 81-86 GHz
- Receive: 71-76 GHz
- Max Great Circle Coordination Distance: 127 km
- Rain Scatter Coordination Distance Contour: 6 km

Link Information:

- Satellite Type: Low Earth Orbit
- Mode: TR – Transmit-Receive
- Modulation: Digital
- Minimum Elevation Angle: 15.0°
- Azimuth Range: 0.0° to 360.0°
- Antenna Centerline (AGL): 18.4 m

Antenna Information:

- Manufacturer: SpaceX
- Model/Diameter: 1.99m
- Gain: 60.9 dBi at 83.5 GHz
- Max Available RF Power: -20.8 dBW/MHz
- Horizon Gain: 0 dBi
- Maximum EIRP: 40.1 dBW/MHz (main beam)
- Permissible RF Interference Power Level²: I/N ≤ -6 dB
- Antenna Mask: ITU-R S.580

² See 47 CFR § 101.105(a)(5)(i). This I/N value would cause a maximum of 1.0 dB of degradation to the static threshold of the protected receiver.

Horizon Angle by Azimuth:

All values are in degrees

Azimuth	Horizon Angle
0.0	0.17
5.0	0.18
10.0	0.07
15.0	0.02
20.0	0.01
25.0	-0.02
30.0	-0.06
35.0	-0.00
40.0	0.01
45.0	0.06
50.0	0.11
55.0	-0.02
60.0	0.10
65.0	0.07
70.0	0.09
75.0	0.16
80.0	0.12
85.0	0.08
90.0	0.11
95.0	0.18
100.0	0.28
105.0	0.20
110.0	0.20
115.0	0.07
120.0	0.07
125.0	0.10
130.0	0.09
135.0	0.10
140.0	0.15
145.0	0.14
150.0	0.14
155.0	0.13
160.0	0.17
165.0	0.31
170.0	0.32
175.0	0.37
180.0	0.46
185.0	0.45
190.0	0.36
195.0	0.34



Frequency Coordination Report
E-Band Earth Station

200.0	0.33
205.0	0.24
210.0	0.16
215.0	0.04
220.0	0.11
225.0	0.10
230.0	0.29
235.0	0.17
240.0	-0.07
245.0	-0.04
250.0	0.01
255.0	0.10
260.0	0.04
265.0	0.04
270.0	0.06
275.0	0.03
280.0	0.18
285.0	0.22
290.0	0.25
295.0	0.25
300.0	0.21
305.0	0.25
310.0	0.16
315.0	0.20
320.0	0.23
325.0	0.17
330.0	0.15
335.0	0.15
340.0	0.23
345.0	0.14
350.0	0.25
355.0	0.18