



# PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION  
45 L STREET NE  
WASHINGTON D.C. 20554

News media information 202-418-0500  
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Report No. SES-02529

Wednesday January 4, 2023

## Satellite Communications Services re: Satellite Radio Applications Accepted For Filing

The applications listed herein have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined they are defective and not in conformance with the Commission's Rules and Regulations and its Policies. Final action will not be taken on any of these applications earlier than 30 days following the date of this notice. 47 U.S.C. § 309(b). All applications accepted for filing will be assigned call signs, or other unique station identifiers. However, these assignments are for administrative purposes only and do not in any way prejudice Commission action.

SES-LIC-20221029-01187 E E220164 Isotropic Networks, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: ISO-NE-1

LOCATION: NE Corner Route 1 and 322nd Street, Cass, Murdock, NE

40 ° 54 ' 49.40 " N LAT.

96 ° 15 ' 20.00 " W LONG.

ANTENNA ID:	ISO-NE-1	9.2 meters	CPI	KXKA
	27500.0000 - 28600.0000 MHz	450MG7W	89.30 dBW	Phase Modulation of Digital Data - Outroute
	27500.0000 - 28600.0000 MHz	70M4G7W	81.20 dBW	Phase Modulation of Digital Data - Outroute
	27500.0000 - 28600.0000 MHz	36M0G7W	78.30 dBW	Phase Modulation of Digital Data - Outroute
	27500.0000 - 28600.0000 MHz	20M0G7W	75.70 dBW	Phase Modulation of Digital Data - Outroute
	27500.0000 - 28600.0000 MHz	10M0G7W	72.70 dBW	Phase Modulation of Digital Data - Outroute
	27500.0000 - 28600.0000 MHz	6M00G7W	70.50 dBW	Phase Modulation of Digital Data - Outroute

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17850.0000 - 18800.0000 MHz	70M4G7W	Phase Modulation of Digital Data - Inroute
17850.0000 - 18800.0000 MHz	36M0G7W	Phase Modulation of Digital Data - Inroute
17850.0000 - 18800.0000 MHz	20M0G7W	Phase Modulation of Digital Data - Inroute
17850.0000 - 18800.0000 MHz	10M0G7W	Phase Modulation of Digital Data - Inroute
17850.0000 - 18800.0000 MHz	6M00G7W	Phase Modulation of Digital Data - Inroute
17850.0000 - 18800.0000 MHz	1M00G7W	Phase Modulation of Digital Data - Inroute

**Points of Communication:**

ISO-NE-1 - PERMITTED LIST - ()

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**SES-MOD-20221216-01363** E E210309 SpaceX Services, Inc.  
 Application for Modification  
**Class of Station:** Other

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Redmond, WA to communicate with the non-geostationary (NGSO) Gen2 Starlink satellite constellation in the 14000-14500 MHz (Earth-to-space), and 10700-12700 MHz (space-to-Earth) frequency bands.

SITE ID: Gen2 ESIM Blanket  
 LOCATION: 22908 NE Alder Crest Drive, King, Redmond, WA

ANTENNA ID:	ESIM-G2	SpaceX	G2 ESIM
14000.0000 - 14500.0000 MHz	60M0D7W	38.20 dBW	BPSK up to 64QAM; Digital Data
10700.0000 - 12700.0000 MHz	240MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data

**Points of Communication:**

Gen2 ESIM Blanket - Gen2 Starlink - (NGSO)

Gen2 ESIM Blanket - SPACEX (S2983/3018) - (NGSO)

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**SES-MOD-20221216-01369** E E220009 SpaceX Services, Inc.  
 Application for Modification  
**Class of Station:** Other

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its blanket-licensed earth stations to communicate with the non-geostationary (NGSO) Gen2 Starlink satellite constellation in the 14000-14500 MHz (Earth-to-space), and 10700-12700 MHz (space-to-Earth) frequency bands.

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SITE ID: HP UT Blanket  
LOCATION: CONUS, AK, HI, PR, USVI, Guam, American Samoa, N.Mariana Is.

ANTENNA ID:	HP-UT	0.42 meters	SpaceX	HP-UT
	14000.0000 - 14500.0000 MHz	60MD7W	38.20 dBW	BPSK up to 64QAM; Digital Data
	10700.0000 - 12700.0000 MHz	240MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data

**Points of Communication:**

HP UT Blanket - Gen2 Starlink - (NGSO)

HP UT Blanket - SPACEX (S2983/3018) - (NGSO)

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**SES-MOD-20221221-01421** E E201193 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Arbuckle, CA to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Arbuckle CA Gateway

LOCATION: Colusa, Arbuckle, CA  
39 ° 3 ' 27.10 " N LAT.

122 ° 3 ' 48.90 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data

**Points of Communication:**

Arbuckle CA Gateway - SPACEX (S2983/3018) - (NGSO)

Arbuckle CA Gateway - SpaceX GEN2 NGSO (S6 - (NGSO)

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**SES-MOD-20221221-01423** E E210051 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Broadview, IL to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Broadview,IL Gateway  
 LOCATION: Cook, Broadview, IL  
 41 ° 51 ' 17.60 " N LAT. 87 ° 51 ' 32.00 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M	
29500.0000 - 30000.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz			480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
17800.0000 - 18600.0000 MHz			480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data

**Points of Communication:**

Broadview,IL Gateway - SPACEX (S2983/3018) - (NGSO)

Broadview,IL Gateway - SpaceX GEN2 NGSO (S6 - (NGSO)

**SES-MOD-20221221-01424** E E201194 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Beekmantown, NY to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Beekmantown NY Gatew  
 LOCATION: Clinton, BEEKMANTOWN, NY  
 44 ° 47 ' 23.90 " N LAT. 73 ° 28 ' 48.00 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M	
29500.0000 - 30000.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz			480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
17800.0000 - 18600.0000 MHz			480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data

ANTENNA ID:	LO-1	1.47 meters	SPACEX	1.47M	
29500.0000 - 30000.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz			480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz			480MD7W		BPSK up to 64 QAM; Digital Data
17800.0000 - 18600.0000 MHz			480MD7W		BPSK up to 64 QAM; Digital Data

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**Points of Communication:**

Beekmantown NY Gatew - SPACEX (S2983/3018) - (NGSO)

Beekmantown NY Gatew - SpaceX GEN2 NGSO (S6 - (NGSO)

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**SES-MOD-20221221-01437** E E201415 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Boca Chica, TX to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Boca Chica, TX

LOCATION: Cameron, BOCA CHICA, TX

25 ° 59 ' 26.50 " N LAT.

97 ° 10 ' 57.90 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

**Points of Communication:**

Boca Chica, TX - SPACEX (S2983/3018) - (NGSO)

Boca Chica, TX - SpaceX GEN2 NGSO (S6 - (NGSO)

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**SES-MOD-20221221-01440** E E201369 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Charleston, OR to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Charleston OR

LOCATION: Coos, CHARLESTON, OR

43 ° 14 ' 54.30 " N LAT.

124 ° 22 ' 52.30 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M
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29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data

**Points of Communication:**

Charleston OR - SPACEX (S2983/3018) - (NGSO)

Charleston OR - SpaceX GEN2 NGSO (S6 - (NGSO))

**SES-MOD-20221222-01488** E E202125 SpaceX Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SpaceX Services, Inc. requests modification of its fixed earth station in Vernon, UT to communicate with the non-geostationary (NGSO) SpaceX Gen2 (S3069) satellite constellation in the 29500-30000 MHz and 27500-29100 MHz (Earth-to-space), and 18800-19300 MHz and 17800-18600 MHz (space-to-Earth) frequency bands.

SITE ID: Vernon UT Gateway

LOCATION: Tooele, Vernon, UT  
40 ° 4 ' 34.40 " N LAT.

112 ° 21 ' 17.00 " W LONG.

ANTENNA ID: CO-1	1.47 meters	SpaceX	1.47M
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data

**Points of Communication:**

Vernon UT Gateway - SPACEX (S2983/3018) - (NGSO)

Vernon UT Gateway - SpaceX GEN2 NGSO (S6 - (NGSO))

**SES-STA-20220617-00667** E E170192 Astro Digital US, Inc.

Special Temporary Authority

**Class of Station:**

Astro Digital is requesting to provide supplemental telemetry, tracking and command (TT&C) ground station support for the NGSO satellite Sherpa-AC1 mission to a sun-synchronous circular orbit with altitude of approximately 550 km ( $\pm$  25 km) 2 at an inclination of 97.59 degrees. STA operations located in Santa Clara, California (Call Sign E170192). Transmit at center frequency 402.9 MHz (Earth-to-space) and receive at center frequency 400.5 MHz (space-to-Earth).

**Points of Communication:**

For more information concerning this Notice, contact the Satellite Division at 418-0719.