NTIA requires the following data for space related experiments using government shared spectrum. For each transmit frequency, please provide the data for both ends of the transmit-receive link. Use Part A to describe the satellite to ground information, (or in this case, satellite to Globalstar). Part B is for all ground to space transmit links (and also Globalstar to satellite transmissions).

### Part A: Space to Earth Space Downlink Data

Satellite Transmitter Data Globalstar Simplex Radio

Transmit Frequenc	Transmit Frequency: 1616.25 MHz		
Satellite Name: GE	Satellite Name: GEARRS-3		
Data Field	Data Answer	Description/Comments	
Polarization (XAP)	XAP = XAP01 L	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION	
Orientation (XAZ)	XAZ = XAZ01 NB	NB= NARROWBEAM EC = EARTH COVERAGE	
Antenna Dimension (XAD)	ANTENNA GAIN5 BEAMWIDTH100 XAD = XAD01 05G100B	(NTIA format (XAD), EXAMPLE, XAD01 16G030B)	
Type of satellite (State = SP) (City = geo or non)	Type = Non	Choose either: Geostationary or Nongeostationary	
For Geostationary	Longitude =	IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG).	

For Nongeostationary (Orbital Data)	INCLINATION ANGLE45, APOGEE IN KILOMETERS500, PERIGEE IN KILOMETERS500, ORBITAL PERIOD IN HOURS1AND FRACTIONS OF HOURS IN DECIMAL6, THE NUMBER OF SATELLITES IN THE SYSTEM1, ORB = ORB,45IN00500AP00500PE001.60H01NRR01	IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01

Earth Station Dat	a (Receiver) GlobalStar Constellation	
State (RSC)	RSC = SP	
City Name (RAL)	RAL = non	
Antenna Polarization (RAP)	RAP = RAP01 T	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION
Antenna Azimuth (RAZ)	RAZ = RAZ01 NB	THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00
Antenna Dimensions (RAD)	ANTENNA GAIN12, BEAMWIDTH37, RAD = 12G037B	EXAMPLE ASSUMING NONGEOSTATIONARY, RAD01 16G030B000-360A00357H006
FCC notes: 1. Use S-Note 2. REM AGN,	S945. Cubesat, (GEARRS-3)	

# Satellite Transmitter Data Globalstar Duplex Radio

Satellite Name: GE	ARRS-3	
Data Field	Data Answer	Description/Comments
Polarization (XAP)	XAP = XAP02 L	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION
Orientation (XAZ)	XAZ = XAZ02 NB	NB= NARROWBEAM EC = EARTH COVERAGE
Antenna Dimension (XAD)	ANTENNA GAIN4.31 BEAMWIDTH110 XAD = XAD02 04.31G110B	(NTIA format (XAD), EXAMPLE, XAD01 16G030B)
Type of satellite (State = SP) (City = geo or non)	Type = Non	Choose either: Geostationary or Nongeostationary
For Geostationary	Longitude =	IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG).
For Nongeostationary (Orbital Data)	INCLINATION ANGLE45, APOGEE IN KILOMETERS500, PERIGEE IN KILOMETERS500, ORBITAL PERIOD IN HOURS1AND FRACTIONS OF HOURS IN DECIMAL6, THE NUMBER OF SATELLITES IN THE SYSTEM1, ORB = ORB,45IN00500AP00500PE001.60H01NRR01	IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01

Earth Station Date	a (Receiver) GlobalStar Constellation	
State (RSC)	RSC = SP	
City Name (RAL)	RAL = non	
Antenna Polarization (RAP)	RAP = RAP01 T	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION
Antenna Azimuth (RAZ)	RAZ = RAZO1 NB	THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00
Antenna Dimensions (RAD)	ANTENNA GAIN12, BEAMWIDTH37, RAD = 12G037B	EXAMPLE ASSUMING NONGEOSTATIONARY, RAD01 16G030B000-360A00357H006
FCC notes: 1. Use S-Note 2. REM AGN, 9	S945. Cubesat, (GEARRS-3)	

# Part B: Earth Ground Station Uplink and GlobalStar Contellation Tx to GEARRS-3 link data:

Transmit Frequencies (MHz):     2484.39     2485.62     2486.85     2488.08     2489.31     2490.54     2491.77     2493     2494.23     2495.46     2499.69     2497.92     2499.15     State (XSC)     XSC = SP     City Name (XAL)     XAL = non     Antenna     Polarization (XAP)     XAP = XAP01 T     Polarization (XAP)     XAZ = XAZ01 NB     Antenna Azimuth     XAZ = XAZ01 NB     Antenna Azimuth     XAZ = XAZ01 NB     Antenna     ANTENNA GAIN   12     EXAMPLE ASUMING NONGEOSTATIONAR	l	IStar Constellation Transmitter	
2485.62     2486.85     2489.31     2490.54     2491.77     2493     2494.23     2495.46     2499.15     State (XSC)     XSC = SP     City Name (XAL)     XAL = non     Antenna     Polarization (XAP)     XAP = XAP01 T     Polarization (XAP)     XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ)     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ)	Transmit Frequenci	es (MHz):	
2486.85     2488.08     2489.31     2490.54     2491.77     2493     2494.23     2495.46     2496.69     2497.92     2499.15     State (XSC)     XSC = SP     City Name (XAL)     XAL = non     Antenna     Polarization (XAP)     XAP = XAP01 T     Polarization (XAP)     XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF     LEVATION, VOO TO V90, EXAMPLE, XAZ01 VOO	2484.39		
2488.08   2489.31     2490.54   2491.77     2493   2494.23     2495.46   2496.69     2497.92   2497.92     2499.15   State (XSC)     XSC = SP   POLARIZATIONS INCLUDE :     H = HORIZONTAL, ADD VERTICAL,   VENTRAL,     Polarization (XAP)   XAP = XAP01 T     Polarization (XAP)   XAP = XAP01 T     Polarization (XAP)   XAZ = XAZ01 NB     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF     ELEVATION, VOO TO V90, EXAMPLE, XAZ01 VOO	2485.62		
2489.31     2490.54     2491.77     2493     2494.23     2495.46     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZO1 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, VO TO V90, EXAMPLE, XAZO1 VOO	2486.85		
2490.54     2491.77     2493     2494.23     2495.46     2495.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL, AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZO1 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, VO TO V90, EXAMPLE, XAZO1 VOO	2488.08		
2491.77     2493     2494.23     2495.46     2496.69     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND VERTICAL, L = LIEFT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	2489.31		
2493     2494.23     2495.46     2496.69     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   Polarization (XAP)     VAP = XAP01 T   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT	2490.54		
2494.23     2495.46     2496.69     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZO1 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, VOO TO V90, EXAMPLE, XAZO1 VOO	2491.77		
2495.46     2496.69     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   Polarization (XAP)     VAP = XAP01 T   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZO1 NB     XAZ = XAZO1 NB   THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, VO TO V90, EXAMPLE, XAZ01 V00	2493		
2496.69     2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB     THE EARTH STATION TO V90, EXAMPLE, XAZ01 V00	2494.23		
2497.92     2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE :     Polarization (XAP)   XAP = XAP01 T     Polarization (XAP)   Y = YERTICAL, Y = FIGHT AND VERTICAL, L = LEFT HAND CIRCULAR, T = RIGHT AND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB   THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	2495.46		
2499.15     State (XSC)   XSC = SP     City Name (XAL)   XAL = non     Antenna   POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZO1 NB	2496.69		
State (XSC)XSC = SPCity Name (XAL)XAL = nonAntenna Polarization (XAP)XAP = XAP01 TPolarization (XAP)XAP = XAP01 TPolarization (XAP)Polarization (XAP)Antenna Azimuth (XAZ)XAZ = XAZ01 NBAntenna Azimuth (XAZ)XAZ = XAZ01 NB	2497.92		
City Name (XAL)XAL = nonAntenna Polarization (XAP)XAP = XAP01 TPOLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATIONAntenna Azimuth (XAZ)XAZ = XAZ01 NBTHE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	2499.15		
Antenna Polarization (XAP)XAP = XAP01 TPOLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATIONAntenna Azimuth (XAZ)XAZ = XAZ01 NBTHE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	State (XSC)	XSC = SP	
Polarization (XAP)   H = HORIZONTAL,     V = VERTICAL,   V = VERTICAL,     S = HORIZONTAL AND VERTICAL,   L = LEFT HAND CIRCULAR,     L = LEFT HAND CIRCULAR,   R = RIGHT HAND CIRCULAR,     T = RIGHT AND LEFT HAND CIRCULAR,   J = LINEAR POLARIZATION     Antenna Azimuth   XAZ = XAZ01 NB     (XAZ)   THE EARTH STATION Transmitter ANTENNA     AZIMUTH (XAZ), THE MINIMUM ANGLE OF   ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	City Name (XAL)	XAL = non	
Antenna Azimuth (XAZ)   XAZ = XAZ01 NB   XAZ = XAZ01 NB   THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, VOO TO V90, EXAMPLE, XAZ01 V00		XAP = XAP01 T	
L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	POIdTIZATION (AAP)		
R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION     Antenna Azimuth (XAZ)   XAZ = XAZ01 NB     THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00			
Antenna Azimuth (XAZ) XAZ = XAZ01 NB THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00			
Antenna Azimuth (XAZ)   XAZ = XAZ01 NB   THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00			
(XAZ) AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00	Antenna Azimuth	XA7 = XA701 NB	
Antenna ANTENNA GAIN 12 . EXAMPLE ASSUMING NONGEOSTATIONAR			
	Antenna	ANTENNA GAIN 12	EXAMPLE ASSUMING NONGEOSTATIONARY,
Dimensions (XAD) BEAMWIDTH 37 , XAD01 16G030B000-360A00357H006			XAD01 16G030B000-360A00357H006
XAD = 12G037B		XAD = 12G037B	
Satellite Globalstar Duplex Receive Specifications	Satellite Globalstar	Duplex Receive Specifications	•
Polarization (RAP) RAP = RAP 01 L POLARIZATIONS INCLUDE :	Polarization (RAP)	RAP = RAP 01 L	POLARIZATIONS INCLUDE :
H = HORIZONTAL,			
V = VERTICAL, S = HORIZONTAL AND VERTICAL,			
L = LEFT HAND CIRCULAR,			
R = RIGHT HAND CIRCULAR,			
T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION			

Earth Station GlobalStar Constellation Transmitter

Azimuth (RAZ)	RAZ = NB	NB= NARROWBEAM EC = EARTH COVERAGE
Dimension (RAD)	ANTENNA GAIN4 BEAMWIDTH110 RAD = 04G110B	(NTIA format (RAD), EXAMPLE, RAD01 16G030B)
Type of satellite (State = SP) City = G/No	Type = Non	Choose either: Geostationary or Nongeostationary

For Geostationary	Longitude =	IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG).
For Nongeostationary (Orbital Data)	INCLINATION ANGLE45, APOGEE IN KILOMETERS500, PERIGEE IN KILOMETERS500, ORBITAL PERIOD IN HOURS1AND FRACTIONS OF HOURS IN DECIMAL6, THE NUMBER OF SATELLITES IN THE SYSTEM1, ORB,45IN00500AP00500PE001.60H01NRR01	IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01

#### Earth Station S Band Transmitter

Transmit Frequency: 2467 MHz		
State (XSC)	XSC = IN	
City Name (XAL)	XAL = UPLAND	
Latitude (DDMMSS)	Lat = 402533 N	
Longitude (DDDMMSS)	Lon = 853030 W	

Antenna Polarization (XAP)	XAP = XAP01 V	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION
Antenna Azimuth (XAZ)	XAZ = XAZ01 V60	THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00
Antenna Dimensions (XAD)	ANTENNA GAIN30, BEAMWIDTH5, AZIMUTHAL RANGE_000-360, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS _276 THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS2 XAD = 30G005B000-360A00276H002	EXAMPLE ASSUMING NONGEOSTATIONARY, XAD01 16G030B000-360A00357H006
Satellite S Band Ree	ceive Specifications	
Polarization (RAP)	RAP = RAP 01 L	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL, L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION
Azimuth (RAZ)	RAZ = NB	NB= NARROWBEAM EC = EARTH COVERAGE
Dimension (RAD)	ANTENNA GAIN4 BEAMWIDTH110 RAD01 04G110B	(NTIA format (RAD), EXAMPLE, RAD01 16G030B)
Type of satellite (State = SP) City = G/No	Type = Non	Choose either: Geostationary or Nongeostationary

For Longitude = Geostationary	IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG).
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For Nongeostationary (Orbital Data)	INCLINATION ANGLE45, APOGEE IN KILOMETERS500, PERIGEE IN KILOMETERS500, ORBITAL PERIOD IN HOURS1AND FRACTIONS OF HOURS IN DECIMAL6, THE NUMBER OF SATELLITES IN THE SYSTEM1, ORB,45IN00500AP00500PE001.60H01NRR01	IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM, THEN T01, EXAMPLE, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, AND FOR SPACE-TO-SPACE COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01