NTIA Space Record Data Form

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. Part B is for all ground to space transmit links.

Part A: Space to Earth Downlink Data

Satellite Transmitter Data

Transmit Frequency: 2270.2 MHz Satellite Name: Orbital Test Bed 3 (OTB-3)				
Polarization (XAP)	Antenna 1: XAP01 = J	POLARIZATIONS INCLUDE : H = HORIZONTAL, V = VERTICAL, S = HORIZONTAL AND VERTICAL,		
	Antenna 2: XAP02 = R	L = LEFT HAND CIRCULAR, R = RIGHT HAND CIRCULAR, T = RIGHT AND LEFT HAND CIRCULAR, J = LINEAR POLARIZATION		
Orientation (XAZ)	XAZ = EC	NB= NARROWBEAM EC = EARTH COVERAGE		
Antenna Dimension (XAD) Type of satellite (State = SP)	Antenna 1: ANTENNA GAIN: 0dBi BEAMWIDTH: 360° XAD01 00G360B Antenna 2: ANTENNA GAIN: 3dBi BEAMWIDTH: 70° XAD02 03G070B Type = Non-geostationary	(NTIA format (XAD), EXAMPLE, XAD01 16G030B)		
(City = geo or non)		Nongeostationary		
For Geostationary	Longitude = N/A	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 ANGLE 98.32° APOGEE IN KILOMETERS 750 PERIGEE IN KILOMETERS 750 ORBITAL PERIOD IN HOURS 1 AND FRACTIONS OF HOURS IN DECIMAL 0.6637	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		

	THE NUMBER OF SATELLITES IN THE SYSTEM 1 ORB,98.3IN00750AP00750PE1.6637H01N RT01	COMMUNICATIONS WITH ANOTHER NONGEOSTATIONARY SATELLITE ADD AN ADDITIONAL *ORB FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01
Earth Station Dat		1
State (RSC)	RSC = Norway	
City Name (RAL)	RAL = Svalbard	
Latitude (DDMMSS)	Lat = 78 14 00 N	78° 14′ N
Longitude (DDDMMSS)	Lon = 15 24 00 E	15° 24' E
Antenna Polarization (RAP)	RAP = R	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 = V05	THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00
Antenna Dimensions (RAD)	ANTENNA GAIN 42dBi, BEAMWIDTH 1.5°, AZIMUTHAL RANGE 000-360, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS 450 THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS 7.3	EXAMPLE ASSUMING NONGEOSTATIONARY, RAD01 16G030B000-360A00357H006
FCC notoc:	RAD01 42G002B000-360A00450H007	
FCC notes: 1.		

Part B: Ground Stations, Earth to Space link data:

Earth Station Transmitter Data

Transmit Frequency	/: 2080.25 MHz	
State (XSC)	XSC = Norway	
City Name (XAL)	XAL = Svalbard	
Latitude	Lat = 78 14 00 N	78° 14′ N
(DDMMSS)		
Longitude	Lon = 15 24 00 E	15° 24' E
(DDDMMSS)		
Antenna	XAP = R	POLARIZATIONS INCLUDE :
Polarization (XAP)		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 = V05	THE EARTH STATION Transmitter ANTENNA
(XAZ)		AZIMUTH (XAZ), THE MINIMUM ANGLE OF
		ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00
Antenna	ANTENNA GAIN 41dBi,	EXAMPLE ASSUMING NONGEOSTATIONARY,
Dimensions (XAD)	BEAMWIDTH 1.6°,	XAD01 16G030B000-360A00357H006
	AZIMUTHAL RANGE 000-360,	
	THE SITE ELEVATION ABOVE MEAN SEA	
	LEVEL IN METERS 450	
	THE ANTENNA HEIGHT ABOVE TERRAIN	
	IN METERS 7.3	
	XAD01 41G002B000-360A00450H007	
Satellite Receive Sp	pecifications	
Polarization (RAP)	RAP = R	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 = EC	NB= NARROWBEAM EC = EARTH COVERAGE
Dimension (RAD)	ANTENNA GAIN: 3dBi	(NTIA format (RAD), EXAMPLE, RAD01 16G030B)
	BEAMWIDTH: 70°	
	RAD01 03G070B	
Type of satellite	Type = Non Geostationary	Choose either:
/1		Geostationary or
(State = SP)		Nongeostationary

For Geostationary	Longitude = N/A	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 ANGLE 98.3° APOGEE IN KILOMETERS 750 PERIGEE IN KILOMETERS 750 ORBITAL PERIOD IN HOURS 1 AND FRACTIONS OF HOURS IN DECIMAL 0.6637 THE NUMBER OF SATELLITES IN THE SYSTEM 1 ORB,98.3IN00750AP00750PE1.6637H01N RR01	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