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: 20.19 GHz Satellite Name: Audacy Zero				
Polarization (XAP)	XAP = 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		
Orientation (XAZ)	XAZ = NB	NB= NARROWBEAM EC = EARTH COVERAGE		
Antenna Dimension (XAD)	ANTENNA GAIN 18 dBi BEAMWIDTH 21.5° (3 dB) XAD =	(NTIA format (XAD), EXAMPLE, XAD01 16G030B)		
Type of satellite (State = SP) (City = geo or non)	Type = Nongeostationary	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 ANGLE 97.7° APOGEE IN KILOMETERS 575 PERIGEE IN KILOMETERS 575 ORBITAL PERIOD IN HOURS 1AND FRACTIONS OF HOURS IN DECIMAL 0.6, THE NUMBER OF SATELLITES IN THE SYSTEM 1, ORB =	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 Data (Receiver)				
State (RSC)	RSC = CA			
City Name (RAL)	RAL = Brisbane			
Latitude	Lat = 374655			
(DDMMSS)				
Longitude	Lon = 1221543			
(DDDMMSS)				
Antenna	RAP = T	POLARIZATIONS INCLUDE :		
Polarization (RAP)		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 = RAZ00 V05 to RAZ360 V90	THE EARTH STATION RECEIVER ANTENNA		
(RAZ)		AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00		
		ELEVATION, VOOTO VSO, EXAMILE, NAZOT VOO		
Antenna	ANTENNA GAIN 61.2 dBi,	EXAMPLE ASSUMING NONGEOSTATIONARY,		
Dimensions (RAD)	BEAMWIDTH 0.15°	RAD01 16G030B000-360A00357H006		
	AZIMUTHAL RANGE <u>0-360</u> ,			
	THE SITE ELEVATION ABOVE MEAN SEA			
	LEVEL IN METERS 4			
	THE ANTENNA HEIGHT ABOVE TERRAIN			
	IN METERS 8			
	RAD =			

FCC notes:

- 1. Use S-Note S945.
- 2. REM AGN, Cubesat, (insert name)

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

Earth Station Transmitter Data

Transmit Frequency	<i>y</i> :	
State (XSC)	XSC =	
City Name (XAL)	XAL =	
Latitude	Lat =	
(DDMMSS)		
Longitude	Lon =	
(DDDMMSS)		
Antenna	XAP =	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 =	THE EARTH STATION Transmitter ANTENNA AZIMUTH (XAZ), THE MINIMUM ANGLE OF
(XAZ)		ELEVATION, V00 TO V90, EXAMPLE, XAZ01 V00
		EVANDUE ASSUMING MONGEOGRATIONARY
Antenna	ANTENNA GAIN,	EXAMPLE ASSUMING NONGEOSTATIONARY, XAD01 16G030B000-360A00357H006
Dimensions (XAD)	BEAMWIDTH,	
	AZIMUTHAL RANGE,	
	THE SITE ELEVATION ABOVE MEAN SEA	
	LEVEL IN METERS	
	THE ANTENNA HEIGHT ABOVE TERRAIN	
	IN METERS	
	VAD	
Catallita Bassius Cu	XAD =	
Satellite Receive Sp	Decinications	
Polarization (RAP)	RAP =	POLARIZATIONS INCLUDE :
Totalization (ivii)		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 =	STATION RECEIVER ANTENNA AZIMUTH (XAZ),
, ,		THE MINIMUM ANGLE OF ELEVATION, VOO TO V90, EXAMPLE, RAZ01 V00
		ELEVATION, VOO TO V90, EXAMPLE, RAZUI VOO
Dimension (RAD)	ANTENNA GAIN	(NTIA format (RAD), EXAMPLE, RAD01 16G030B)
	BEAMWIDTH	
	RAD =	
Type of satellite	Type =	Choose either:
(State = SP)		Geostationary or Nongeostationary
City = G/No		

For Geostationary For Nongeostationary (Orbital Data)	INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURSAND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM,	IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG). 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 FOR IT ENDING IN R01, EXAMPLE, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01