Our Spectrum Coordination Branch requires the following additional information for satellite applications that are not STAs. Please review the information below and submit an exhibit that contains the data. Reference to the specific data descriptions can be found by Googling the NTIA Red Book under Chapter 9.

PLEASE SUBMIT THE FOLLOWING INFORMATION:

1.) THE TYPE OF SATELLITE, GEOSTATIONARY OR NONGEOSTATIONARY, (XAL AND/OR RAL).

A.) IF ANY SATELLITES ARE GEOSTATIONARY, REPORT ITS LATITUDE AS 000000N (XLA AND/OR RLA) AND REPORT ITS LONGITUDE (XLG AND/OR RLG).

All AeroCubes are non-geostationary

B.) 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

ORB,52IN00500AP00500PE001.64H02NR

2.) THE SATELLITE TRANSMITTER ANTENNA GAIN AND BEAMWIDTH (XAD), EXAMPLE, XAD01 16G030B

XAD01 00G090B

3.) THE SATELLITE TRANSMITTER ANTENNA AZIMUTH (XAZ), NARROWBEAM, NB, EARTH COVERAGE, EC, EXAMPLE, XAZ01 EC OR LEAVE BLANK FOR SPACE-TO-SPACE OPERATIONS.

EC

4.) THE EARTH STATION RECEIVER ANTENNA GAIN, BEAMWIDTH, AZIMUTHAL RANGE, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS AND THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS (RAD), EXAMPLE ASSUMING NONGEOSTATIONARY, RAD01 16G030B000-360A00357H006

This list of codes is for all six earth stations.
RAD01 31G005B000-360A00023H017 (El Segundo, CA)
RAD02 23G015B000-360A00107H002 (College Station, TX)
RAD03 23G015B000-360A00036H002 (Gainesville, FL)
RAD04 23G015B000-360A01736H002 (Mt. Wilson, CA)
RAD05 23G015B000-360A00025H002 (VAFB, CA)
RAD06 23G015B000-360A00010H002 (Maui, HI)
RAD07 23G015B000-360A000372H002 (Ash River, MN)

5.) THE EARTH STATION RECEIVER ANTENNA AZIMUTH (RAZ), THE MINIMUM ANGLE OF ELEVATION, V00 TO V90, EXAMPLE, RAZ01 V00

This list of codes is for all seven earth stations.
RAZ01 V02 (El Segundo, CA)
RAZ02 V02 (College Station, TX)
RAZ03 V02 (Gainesville, FL)
RAZ04 V02 (Mt. Wilson, CA)
RAZ05 V02 (VAFB, CA)
RAZ06 V02 (Maui, HI)

RAZ07 V02 (Ash River, MN)

6.) THE S NOTE (ASSUMING NONGEOSTATIONARY, USE S871--THIS ASSIGNMENT SUPPORTS OF THE NON-GEOSTATIONARY CUBESAT TEST BED (CSTB) SATELLITE).

Not sure what is being asked here

7.) THE TRANSMITTER ANTENNA ORIENTATION (XAP), EXAMPLE XAP01 J , AND THE RECEIVER ANTENNA ORIENTATION (RAP), EXAMPLE RAP01 J , WHERE J REPRESENTS LINEAR POLARIZATION. OTHER POLARIZATIONS INCLUDE H FOR HORIZONTAL, V FOR VERTICAL, S FOR HORIZONTAL AND VERTICAL, L FOR LEFT HAND CIRCULAR, R FOR RIGHT HAND CIRCULAR, T FOR RIGHT AND LEFT HAND CIRCULAR, E FOR ELLIPTICAL AND O FOR OBLIQUE ANGLED CROSSED.

I assume this is for Earth stations. Our earth stations send and receive on same frequency so it uses same antenna, same polarity. This list of codes is for all seven earth stations.

XAP01 R (El Segundo, CA)
XAP02 R (College Station, TX)
XAP03 R (Gainesville, FL)
XAP04 R (Mt. Wilson, CA)
XAP05 R (VAFB, CA)
XAP06 R (Maui, HI)
XAP07 R(Ash River, MN)

RAP01 R (El Segundo, CA)
RAP02 R (College Station, TX)
RAP03 R (Gainesville, FL)
RAP04 R (Mt. Wilson, CA)
RAP05 R (VAFB, CA)
RAP06 R (Maui, HI)
RAP07 R (Ash River, MN)