

To: Jan A. King
E-Mail: chris@astrodigital.com
From: Doug Young
Date: August 20, 2019

Subject: Request for Info - File # 0329-EX-CR-2019

Message:

NTIA has tabled your 400.155-400.195 MHz frequency for "lack of second receiver *ORB." *ORB data is defined below. Since you have two space stations in the system as indicated in the transmitter *ORB data 97.84IN00615AP00610PE001.61H02NRT01, NTIA wants receiver *ORB data in the format that ends "R01" and "R02" in the examples below. Provide the necessary receiver *ORB data as a response to this correspondence.

q. Orbital Information on Non-Geostationary Satellites (Transmitting and Receiving) (*ORB)

For applications involving a single non-geostationary satellite or multiple non-geostationary satellites having similar orbital characteristics:

- a. Enter the identifying Code REMnn *ORB followed by a comma.
- b. In the next four spaces, enter the equatorial inclination angle in degrees, using leading zeros as necessary and a decimal with fractional degrees. In the next two spaces, enter the letters IN.
- c. In the next five spaces, enter the apogee in kilometers, using leading zeros as necessary. In the next two spaces, enter the letters AP.
- d. In the next five spaces, enter the perigee in kilometers, using leading zeros as necessary. In the next two spaces, enter the letters PE.
- e. In the next six spaces enter the period, using leading zeros as necessary and a decimal for a fractional unit. If the period is less than 24 hours, enter the period in hours followed, in the next space, by the letter H; if 24 hours or more, enter the period in days followed in the next space, by the letter D.
- f. In the next two spaces enter the number of satellites in the system, using a leading zero as necessary. In the next two spaces, enter the letters NR.
- g. In the next three spaces, enter T01 for a non-geostationary transmitting satellite and R01, R02, etc. for each non-geostationary receiving satellite if the orbital information is for space-to-space transmissions. Entry is optional for other than space-to-space transmissions.

Example: *ORB,68.8IN40765AP00465PE12.283H01NR

One satellite in the system having orbital characteristics as follows: 68.8 inclination, 40,765 kilometer apogee, 465 kilometer perigee, 12.283-hour period.

For applications with multiple receiving space stations, indicate the orbital information for the satellite of each receiving space station in the Circuit Remarks, followed by the receiver involved (R01, R02, etc.). Examples:

REM01 *ORB,68.2IN06900AP00239PE022.05H02NRR01
REM02 *ORB,72.9IN03209AP00655PE013.46H01NRR02

The orbital characteristics of the two satellites having similar characteristics specified in RAL field R01 are as follows: 68.2 inclination, 6,900 kilometer apogee, 239 kilometer perigee, 22.05-hour period. The orbital characteristics of the one satellite specified in the RAL field R02 are as follows: 72.9 inclination, 3,209 kilometer apogee, 655 kilometer perigee, 13.46-hour period.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of August 20, 2019 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 50186