

To: Sophie Arlow
E-Mail: sophie@swarm-technologies.com
From: Doug Young
Date: March 12, 2019

Subject: Request for Info - File # 0961-EX-CN-2018

Message:

Some of the parameters on the NTIA Space Record Data Form are in incorrect formats. Follow the following descriptions and resubmit the document.

Earth station transmitter XAZ: For Earth and Terrestrial stations (including experimental stations) employing Earth station techniques, insert the letter V followed by a two-digit number expressing the minimum operating angle of elevation of the antenna, in degrees, from the horizontal for geostationary satellites and the minimum operating angle of elevation of the antenna, in degrees, from the horizontal for non-geostationary satellites and multiple receiving geostationary satellites.

Earth station transmitter XAD: The following formatting instructions apply to both Earth and Terrestrial stations (including experimental stations) employing Earth station techniques.

(1) Use the entire 24 characters to record the following particulars:

(a) GAIN--Insert in the first two characters a two-digit number representing the gain of the antenna in the direction of maximum radiation. Insert a zero in the first character if the gain is less than ten. Enter the letter G in character three. For a negative gain, insert XXG and give the value in the CIRCUIT REMARKS *EGN field.

(b) BEAMWIDTH--Beginning with character four, insert a three-digit number representing the antenna beamwidth (degrees) at the half power points. Use all three spaces, inserting leading zeros as applicable. Enter the letter B in character seven. For a beamwidth requiring more than three spaces, insert XXXB and give the value in the CIRCUIT REMARKS *EBW field.

(c) AZIMUTH--In characters eight through fourteen, insert the azimuth angles (in degrees clockwise from True North) of the main beam. If the Earth station is to communicate with a single Geostationary satellite, insert the azimuth angle to the satellite in spaces eight through ten (use leading zeros), a slant bar in space eleven, and XXX in spaces twelve through fourteen. If it is to communicate with two geostationary satellites, insert the azimuth angle to the first in spaces eight through ten, a slant bar in space eleven, and the azimuth angle to the second satellite in spaces twelve through fourteen. If the Earth station is mobile or transportable, or is to communicate with nongeostationary satellites or with more than two geostationary satellites, indicate the range of azimuth angles over which the Earth station antenna will point by inserting in spaces eight through ten a three-digit number for one extreme azimuth, a hyphen in space eleven, and a three-digit number in spaces twelve through fourteen for the other extreme azimuth. Use leading zeros as necessary and 360 for True North. In character fifteen insert the letter A.

(d) ELEVATION--Starting with character sixteen, insert a five-digit number representing the site (terrain) elevation in meters above mean sea level (MSL). Use all five spaces, inserting leading zeros as necessary

In character twenty-one insert the letter H. For mobile or transportable stations, leave blank.

(e) HEIGHT--Starting with character twenty-two, insert a three-digit number representing the antenna height in meters above terrain. Use all three spaces, inserting leading zeros as applicable. For an Earth station aboard an aircraft, insert a two-digit number followed by the letter K to denote the maximum operational altitude of the aircraft in thousands of feet above mean sea level. For altitudes under 10,000 feet insert a leading zero.

Example: XAD01 35G106B010/130A05200H025

Satellite receiver RAD: The following formatting instructions apply to both Space and Terrestrial stations (including experimental stations) using space station techniques:

(1) This field provides room for the details of up to three antennas per Space station. If the station uses more than three antennas for the requested frequency, provide data for the three most frequently used antennas.

(2) Use characters one through seven for the details of the first antenna. Enter:

(a) GAIN--Insert in the first two characters a two-digit number representing the gain of the antenna in the direction of maximum radiation. Insert a zero in the first character if the gain is less than ten. Enter the letter G in character 3. For a negative gain, insert XXG and give the value in the CIRCUIT REMARKS *SGN field.

Examples: RAD01 20G015B

RAD01 08G.25B

RAD01 XXG105B

RAD01 20GXXXB

(b) BEAMWIDTH--Beginning with character four, insert a three-digit number representing the antenna beamwidth (degrees) at the half power points. Use all three spaces, inserting leading zeros as necessary. Insert the letter B in space seven. For a beamwidth requiring more than three spaces, insert XXXB and give the value in the CIRCUIT REMARKS *SBW field.

(3) If the assignment involves the use of a second antenna:

(a) Insert a slant bar in character eight; and

(b) Use characters nine through fifteen for the details as specified in paragraph 38.d.(2)(a) and (b).

Examples: RAD01 20G016B/10G.30B

(4) If the assignment involves the use of a third antenna:

(a) Insert a slant bar in character sixteen; and

(b) Use characters seventeen through twenty-three for the details of the third antenna as specified in paragraph 38.d(2) (a) and (b).

Example: RAD01 10G025B/20G.30B/30G1.9B

(5) Leave character twenty-four blank.

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 March 12, 2019 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 46700