

Purpose of Modification

Friday, February 23, 2007

The purposes of this modification are as follows:

1. Extend the geographical operation of the mobile earth station to include Hawaii (in addition to the current CONUS coverage).
 - a. We have previously avoided within 125 km of White Sands, NM
 - b. We will also avoid 14.47 to 14.5 GHz within 125 km of Mauna Kea, HI.
2. In order to provide satellite coverage in Hawaii, we will need the following satellites added to our license:
 - a. SES AMC-23 at 172 degrees East
 - b. SES AMC-1 at 257 degrees East
3. For future testing options, it would also be desirable to add the following satellites to our license:
 - a. Intelsat 2 at 169 degrees East
 - b. Intelsat Horizons-1 at 127 degrees East
4. Minor changes have been made to form 442 to clarify the attributes of the earth station.

An affidavit from SES-Americom has previously been submitted.

Directional antenna information has previously been submitted. Per the current experimental license, the off-axis EIRP values generated by the terminal in the transmit band are reduced to that of a compliant antenna by decreasing the power spectral density from -14 dBW/4kHz to -22 dBW/4kHz.

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