

**RE: Purpose of Proposed Modification to Experimental
License WD2XNC**

The Boeing Company

1.2 Meter Ku-band Transmit Earth Station(s)

The Boeing Company has the need to test and validate electronic equipment in conjunction with satellite earth stations transmitting at various facilities CONUS-wide. The original license only authorized operation of these tests from select east coast facilities in the states of Florida, Maryland and Virginia. Additionally, during the second phase of our testing we will be using a second type of 1.2 Meter Ku-band antenna dish, which is being added to the license as part of the modification requesting CONUS wide operations. The 1.2 Meter Ku-band earth stations will be used for the testing of these electronic equipments, and will be needed for a duration of more than 6 months, but less than two years, which is the maximum licensing time period for an Experimental License. They were not applied for license through the International Bureau; since the standard International Bureau fixed transmit/receive earth station license timeframe of 15 years was not necessary or required for this project testing. The 1.2 Meter satellite earth station(s) will be used for testing purposes only and not to establish permanent communications links from any Boeing facility.

No frequency coordination is required for these antennas since they will not be operating in shared spectrum with terrestrial microwave users.