

Experimental License Call Sign WM2XMV

Section 5.77 Notification

Pursuant to Section 5.77 of the Commission's rules, The Boeing Company ("Boeing") hereby notifies the Commission of its intent to make discrete changes in the emission characteristics of the Varuna satellite. These changes will be made in full conformance with the emission limits specified in Boeing's experimental license, call sign WM2XMV.

Subsequent to its release from its launch vehicle on September 4, 2022, it was determined that the satellite had a valve control issue that affected its propulsion capability. To address this, Boeing does not currently intend to initiate additional orbit raising maneuvers toward the satellite's intended circular orbit of 1,056 kilometers and will instead maintain the satellite at its present elliptical orbit of 390 by 1,056 kilometers. Boeing is also continuing to troubleshoot the spacecraft in order to increase the reliability of its propulsion system. Although the maneuverability of the satellite is not optimal, it is sufficient to perform collision avoidance maneuvers as needed.

Beginning on February 8, 2023, Boeing intends to initiate the program of radio transmission experimentation described in its FCC application for the Varuna satellite at its present orbit. Boeing does not currently anticipate the need to make any changes to the space-to-Earth transmission power levels of the satellite at its present orbit to remain compliant with the terms of its experimental license or Recommendation ITU-RRS.1263-2.