

TECHNICAL DESCRIPTION EXHIBIT

In this application, Iridium Satellite LLC ("Iridium") requests special temporary authority to operate a transmitter in the manner specified below.

Iridium proposes to use an unlicensed boresight transmitter for testing purposes. The transmitter will be positioned in the vicinity of one of Iridium's gateway earth stations (E960244). The transmitter will send point-to-point test signals to the gateway earth station for brief intervals during periods when the gateway earth station is not otherwise in service. These test signals will enable Iridium to calibrate a software defined modem that is to be installed on the gateway earth station.

The test signals will consist of unmodulated (CW) emissions having a bandwidth of 100 Hz. The transmissions will be on a single frequency at 19.5 GHz that is tunable over a range of +/- 100 MHz. The maximum output power of the test signals will be 0.05 watts and the maximum ERP will be 0.305 watts. The boresight antenna will have an elevation angle of -0.8 degrees and an azimuth of 148 degrees.

Iridium's proposed operations have been coordinated by Comsearch. A copy of Comsearch's coordination report is attached to this exhibit.