

Form 442 File Number: 0100-EX-PL-2012

Description of 1616-1626 Band Usage

Dove 2 uses the 1616-1626 MHz band for near-global commanding and telemetry coverage. Dove 2 flies a commercial off-the-shelf Iridium modem manufactured by NAL Research (model # 9602-I) used for low speed uplinks and downlinks through the existing Iridium network. The uplink will be used for commanding the satellite, and the downlink will be used as a backup health and telemetry packet link. We will coordinate these links with Iridium to mitigate any potential interference or power flux density issues from using the modem in low earth orbit.