

Antenna Statement
General Dynamics (Prodelin)
3.8 Meter Antenna 1385

The 6 GHz antenna pattern contained with this application meets the antenna performance standards set forth in CFR §25.209.

The radiation pattern envelope for the Prodelin 1385 is identical in performance to the Prodelin 1383. The model 1383 has been licensed numerous times with the FCC noting the antenna performance at 6 GHz meeting CFR §25.209 requirements as well.

The application file number and Call sign, SES-LIC-20070615-00823 (E070112) of a previously licensed Prodelin 1383, 3.8 meter earth station, indicates that the antenna proposed in this application will operate without conflict.

The maximum input spectral power density into the antenna for the proposed 3.8 meter Prodelin 1385 antenna will not exceed -11.3 dBW/4 kHz.

The 4 GHz antenna pattern contained with this application exceeds the CFR §25.209 sidelobe specification for the sidelobe envelope in the $\pm 1^\circ$ to 1.5° region by a maximum of 6 dB, at 4 GHz. Outside the main beam, the antenna meets the requirements of §25.209.

There are currently no satellites located within 1.5° of the applicant's desired satellites.

The applicant agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna in the 1° to 1.5° region. The applicant understands that no adjacent satellite interference protection will be available in the 1° to 1.5° regions. The applicant understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209.