

## **Non-Routine Antenna Exhibit**

Sistema Universitario Ana G. Mendez (Mendez) is proposing to use a 2.4m General Dynamics Series 1251 antenna as part of its temporary fixed earth station operation. The antenna was previously manufactured under the Prodelin name as the Series 1251 antenna; however, General Dynamics acquired Prodelin in 2004 and has continued manufacturing the same antenna which is now under the General Dynamics name.

The proposed 2.4m General Dynamics series 1251 antenna radiation pattern exceeds the values specified in Part 25.209 of the FCC Rules from 1° to 1.9° (measured at low, mid and high frequency bands) and in various portions of the frequency band from 100° to 175°.

Pursuant to the Part 25 Earth Station 5th Report and Order (R&O), the International Bureau has provided a list of Approved Non-Routine Earth Station Antennas that have been previously authorized for operation in the United States (<http://www.fcc.gov/ib/sd/nresa/>). As detailed in the R&O, earth station applications proposing to use an antenna on the list are not required to submit radiation plots as an exhibit with their application. Instead, the applicant is only required to provide an attachment to its application citing the particular non-routine earth station antenna they plan to use and the application file number and call sign of the license in which that type of antenna was previously approved.

The Prodelin (now General Dynamics) Service 1251 antenna has been authorized for use in four other instances:

- Call Sign E080110, File #S-LIC-20080519-00642, Max EIRP Density 24.4 dBW/4kHz
- Call Sign E080170, File #S-LIC-20080717-00949, Max EIRP Density 32 dBW/4kHz
- Call Sign E050042, File #SES-LIC-20050218-00196, Max EIRP Density 30 dBW/4kHz
- Call Sign E120073, File #SES-LIC-20120427-00399, Max EIRP Density 32 dBW/4kHz

In its instant application for C-Band temporary earth station operation, Mendez is proposing to operate at a maximum EIRP density of 31.95 dBW/4 kHz which is slightly less than the highest authorized value. The applicant also agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna. Mendez understands that adjacent satellite interference protection applies only to the extent specified in Part 25.209 of the Commission's Rules.