

Request for Routine Processing of Non-Compliant Antenna

The antenna at issue is a C-band Prodelin 1251(2.4m) (“Antenna”). This Antenna does not strictly comply with Section 25.209 of the Regulations. However, according to Section 25.218 of the Regulations, an applicant may request routine processing of an application if it meets the applicable off-axis EIRP envelopes.

Furthermore, an application pursuant to Section 25.218 must file the corresponding tables outlined in Section 25.115(h) of the Regulations. Applicant presents below the tables outlined in Section 25.115(h) and therefore requests routine processing of this application.

| EIRP DENSITY TABLE, AZIMUTH - §25.218 (h) (1) |          |     |                         |                |
|---|----------|-----|-------------------------|----------------|
| <b>Antenna Manufacturer</b>                   | Prodelin |     | <b>Antenna Diameter</b> | 2.4 m          |
| <b>Antenna Model</b>                          | 1351     |     | <b>Antenna Gain</b>     | 42.5 dBi       |
| <b>Transmit Frequency</b>                     | 6.245    | GHz | <b>Max EIRP Density</b> | -25.2 dBW/4KHz |

| Off-Axis degrees | §25.218 SD (dBW/4KHz) | Actual SD (dBW/4KHz) | Margin (dB) |
|------------------|-----------------------|----------------------|-------------|
| 1.5              | 21.9                  | -7.7                 | -29.6       |
| 1.6              | 21.2                  | -28.7                | -49.9       |
| 1.7              | 20.5                  | -18.7                | -39.2       |
| 1.8              | 19.9                  | -11.7                | -31.6       |
| 1.9              | 19.3                  | -7.7                 | -27.0       |
| 2.0              | 18.8                  | -6.7                 | -25.4       |
| 2.1              | 18.2                  | -5.7                 | -23.9       |
| 2.2              | 17.7                  | -6.2                 | -23.9       |
| 2.3              | 17.3                  | -7.2                 | -24.4       |
| 2.4              | 16.8                  | -8.7                 | -25.4       |
| 2.5              | 16.4                  | -7.7                 | -24.0       |
| 2.6              | 15.9                  | -11.2                | -27.1       |
| 2.7              | 15.5                  | -12.7                | -28.2       |
| 2.8              | 15.1                  | -13.7                | -28.8       |
| 2.9              | 14.7                  | -15.2                | -29.9       |
| 3.0              | 14.4                  | -16.5                | -30.8       |
| 3.1              | 14.0                  | -16.7                | -30.7       |
| 3.2              | 13.7                  | -16.5                | -30.1       |
| 3.3              | 13.3                  | -15.7                | -29.0       |
| 3.4              | 13.0                  | -14.7                | -27.7       |
| 3.5              | 12.7                  | -13.7                | -26.4       |
| 3.6              | 12.4                  | -13.7                | -26.0       |
| 3.7              | 12.1                  | -12.9                | -24.9       |
| 3.8              | 11.8                  | -12.7                | -24.5       |
| 3.9              | 11.5                  | -12.7                | -24.2       |
| 4.0              | 11.2                  | -12.7                | -23.9       |
| 4.1              | 11.0                  | -12.7                | -23.6       |
| 4.2              | 10.7                  | -13.2                | -23.9       |
| 4.3              | 10.5                  | -14.5                | -24.9       |
| 4.4              | 10.2                  | -15.2                | -25.4       |
| 4.5              | 10.0                  | -17.7                | -27.6       |
| 4.6              | 9.7                   | -19.2                | -28.9       |
| 4.7              | 9.5                   | -22.7                | -32.2       |

| Off-Axis degrees | §25.218 SD (dBW/4KHz) | Actual SD (dBW/4KHz) | Margin (dB) |
|------------------|-----------------------|----------------------|-------------|
| 7.5              | 5.3                   | -30.2                | -35.5       |
| 7.6              | 5.3                   | -30.7                | -36.0       |
| 7.7              | 5.3                   | -30.7                | -36.0       |
| 7.8              | 5.3                   | -30.7                | -36.0       |
| 7.9              | 5.3                   | -29.7                | -35.0       |
| 8.0              | 5.3                   | -28.7                | -34.0       |
| 8.1              | 5.3                   | -26.7                | -32.0       |
| 8.2              | 5.3                   | -26.2                | -31.5       |
| 8.3              | 5.3                   | -25.2                | -30.5       |
| 8.4              | 5.3                   | -24.7                | -30.0       |
| 8.5              | 5.3                   | -24.7                | -30.0       |
| 8.6              | 5.3                   | -24.7                | -30.0       |
| 8.7              | 5.3                   | -25.7                | -31.0       |
| 8.8              | 5.3                   | -26.7                | -32.0       |
| 8.9              | 5.3                   | -27.7                | -33.0       |
| 9.0              | 5.3                   | -29.2                | -34.5       |
| 9.1              | 5.3                   | -31.7                | -37.0       |
| 9.2              | 5.3                   | -32.7                | -38.0       |
| 9.3              | 5.1                   | -33.7                | -38.7       |
| 9.4              | 5.0                   | -34.7                | -39.6       |
| 9.5              | 4.9                   | -34.7                | -39.5       |
| 9.6              | 4.7                   | -35.7                | -40.4       |
| 9.7              | 4.6                   | -36.7                | -41.3       |
| 9.8              | 4.5                   | -37.7                | -42.2       |
| 9.9              | 4.4                   | -38.7                | -43.1       |
| 10.0             | 4.3                   | -40.7                | -45.0       |
| 15.0             | -0.1                  | -34.7                | -34.6       |
| 20.0             | -3.2                  | -42.7                | -39.4       |
| 25.0             | -5.6                  | -38.7                | -33.0       |
| 30.0             | -7.6                  | -35.7                | -28.0       |
| 35.0             | -9.3                  | -44.7                | -35.4       |
| 40.0             | -10.8                 | -48.7                | -37.9       |
| 45.0             | -12.0                 | -52.7                | -40.6       |

|     |     |       |       |
|-----|-----|-------|-------|
| 4.8 | 9.3 | -26.7 | -35.9 |
| 4.9 | 9.0 | -34.7 | -43.7 |
| 5.0 | 8.8 | -38.7 | -47.5 |
| 5.1 | 8.6 | -38.7 | -47.3 |
| 5.2 | 8.4 | -32.7 | -41.1 |
| 5.3 | 8.2 | -31.7 | -39.8 |
| 5.4 | 8.0 | -32.7 | -40.6 |
| 5.5 | 7.8 | -36.7 | -44.4 |
| 5.6 | 7.6 | -40.7 | -48.2 |
| 5.7 | 7.4 | -44.7 | -52.1 |
| 5.8 | 7.2 | -36.7 | -43.9 |
| 5.9 | 7.0 | -31.7 | -38.7 |
| 6.0 | 6.8 | -27.7 | -34.5 |
| 6.1 | 6.7 | -26.4 | -33.0 |
| 6.2 | 6.5 | -26.4 | -32.8 |
| 6.3 | 6.3 | -25.7 | -32.0 |
| 6.4 | 6.1 | -26.4 | -32.5 |
| 6.5 | 6.0 | -26.7 | -32.6 |
| 6.6 | 5.8 | -27.7 | -33.5 |
| 6.7 | 5.6 | -29.7 | -35.3 |
| 6.8 | 5.5 | -32.7 | -38.1 |
| 6.9 | 5.3 | -38.7 | -44.0 |
| 7.0 | 5.2 | -37.7 | -42.8 |
| 7.1 | 5.3 | -34.7 | -40.0 |
| 7.2 | 5.3 | -32.2 | -37.5 |
| 7.3 | 5.3 | -30.9 | -36.2 |
| 7.4 | 5.3 | -30.5 | -35.8 |

|       |       |       |       |
|-------|-------|-------|-------|
| 50.0  | -12.7 | -48.7 | -36.0 |
| 55.0  | -12.7 | -46.7 | -34.0 |
| 60.0  | -12.7 | -46.7 | -34.0 |
| 65.0  | -12.7 | -47.7 | -35.0 |
| 70.0  | -12.7 | -49.7 | -37.0 |
| 75.0  | -12.7 | -52.7 | -40.0 |
| 80.0  | -12.7 | -53.7 | -41.0 |
| 85.0  | -12.7 | -54.7 | -42.0 |
| 90.0  | -12.7 | -59.7 | -47.0 |
| 95.0  | -12.7 | -52.7 | -40.0 |
| 100.0 | -12.7 | -39.7 | -27.0 |
| 105.0 | -12.7 | -49.7 | -37.0 |
| 110.0 | -12.7 | -47.7 | -35.0 |
| 115.0 | -12.7 | -53.7 | -41.0 |
| 120.0 | -12.7 | -56.7 | -44.0 |
| 125.0 | -12.7 | -41.7 | -29.0 |
| 130.0 | -12.7 | -42.7 | -30.0 |
| 135.0 | -12.7 | -39.7 | -27.0 |
| 140.0 | -12.7 | -42.7 | -30.0 |
| 145.0 | -12.7 | -32.7 | -20.0 |
| 150.0 | -12.7 | -32.7 | -20.0 |
| 155.0 | -12.7 | -36.7 | -24.0 |
| 160.0 | -12.7 | -40.7 | -28.0 |
| 165.0 | -12.7 | -34.7 | -22.0 |
| 170.0 | -12.7 | -31.7 | -19.0 |
| 175.0 | -12.7 | -38.7 | -26.0 |
| 180.0 | -12.7 | -23.7 | -11.0 |

| EIRP DENSITY TABLE, ELEVATION - §25.218 (h) (2) |          |     |                  |                |
|---|----------|-----|------------------|----------------|
| Antenna Manufacturer                            | Prodelin |     | Antenna Diameter | 2.4 m          |
| Antenna Model                                   | 1351     |     | Antenna Gain     | 42.5 dBi       |
| Transmit Frequency                              | 6.245    | GHz | Max EIRP Density | -25.2 dBW/4KHz |

| Off-Axis degrees | §25.218 SD (dBW/4KHz) | Actual SD (dBW/4KHz) | Margin (dB) |
|------------------|-----------------------|----------------------|-------------|
| 1.5              | 24.9                  | -0.7                 | -25.6       |
| 1.6              | 24.2                  | -2.7                 | -26.9       |
| 1.7              | 23.5                  | -5.7                 | -29.2       |
| 1.8              | 22.9                  | -6.7                 | -29.6       |
| 1.9              | 22.3                  | -7.7                 | -30.0       |
| 2.0              | 21.8                  | -7.7                 | -29.4       |
| 2.1              | 21.2                  | -8.2                 | -29.4       |
| 2.2              | 20.7                  | -8.7                 | -29.4       |
| 2.3              | 20.3                  | -10.2                | -30.4       |
| 2.4              | 19.8                  | -11.7                | -31.4       |
| 2.5              | 19.4                  | -13.7                | -33.0       |
| 2.6              | 18.9                  | -15.7                | -34.6       |
| 2.7              | 18.5                  | -15.7                | -34.2       |
| 2.8              | 18.1                  | -14.7                | -32.8       |
| 2.9              | 17.7                  | -13.7                | -31.4       |
| 3.0              | 17.4                  | -13.2                | -30.5       |
| 3.1              | 17.0                  | -12.7                | -29.7       |
| 3.2              | 16.7                  | -13.2                | -29.8       |
| 3.3              | 16.3                  | -13.7                | -30.0       |
| 3.4              | 16.0                  | -15.2                | -31.2       |
| 3.5              | 15.7                  | -17.7                | -33.4       |
| 3.6              | 15.4                  | -20.7                | -36.0       |
| 3.7              | 15.1                  | -23.2                | -38.2       |
| 3.8              | 14.8                  | -23.7                | -38.5       |
| 3.9              | 14.5                  | -21.7                | -36.2       |
| 4.0              | 14.2                  | -18.7                | -32.9       |
| 4.1              | 14.0                  | -27.7                | -41.6       |
| 4.2              | 13.7                  | -26.7                | -40.4       |
| 4.3              | 13.5                  | -26.2                | -39.6       |
| 4.4              | 13.2                  | -26.7                | -39.9       |
| 4.5              | 13.0                  | -27.7                | -40.6       |
| 4.6              | 12.7                  | -29.2                | -41.9       |
| 4.7              | 12.5                  | -31.7                | -44.2       |
| 4.8              | 12.3                  | -25.7                | -37.9       |

| Off-Axis degrees | §25.218 SD (dBW/4KHz) | Actual SD (dBW/4KHz) | Margin (dB) |
|------------------|-----------------------|----------------------|-------------|
| 6.1              | 9.7                   | -34.7                | -44.3       |
| 6.2              | 9.5                   | -28.7                | -38.1       |
| 6.3              | 9.3                   | -25.7                | -35.0       |
| 6.4              | 9.1                   | -23.7                | -32.8       |
| 6.5              | 9.0                   | -22.2                | -31.1       |
| 6.6              | 8.8                   | -21.7                | -30.5       |
| 6.7              | 8.6                   | -21.7                | -30.3       |
| 6.8              | 8.5                   | -22.2                | -30.6       |
| 6.9              | 8.3                   | -22.7                | -31.0       |
| 7.0              | 8.2                   | -23.2                | -31.3       |
| 7.1              | 8.0                   | -23.7                | -31.7       |
| 7.2              | 7.9                   | -24.2                | -32.0       |
| 7.3              | 7.7                   | -24.2                | -31.9       |
| 7.4              | 7.6                   | -24.7                | -32.2       |
| 7.5              | 7.4                   | -24.7                | -32.1       |
| 7.6              | 7.3                   | -24.7                | -31.9       |
| 7.7              | 7.1                   | -25.2                | -32.3       |
| 7.8              | 7.0                   | -25.7                | -32.7       |
| 7.9              | 6.9                   | -26.2                | -33.0       |
| 8.0              | 6.7                   | -26.7                | -33.4       |
| 8.1              | 6.6                   | -27.2                | -33.7       |
| 8.2              | 6.5                   | -26.7                | -33.1       |
| 8.3              | 6.3                   | -25.7                | -32.0       |
| 8.4              | 6.2                   | -24.7                | -30.8       |
| 8.5              | 6.1                   | -23.7                | -29.7       |
| 8.6              | 5.9                   | -22.7                | -28.6       |
| 8.7              | 5.8                   | -22.2                | -28.0       |
| 8.8              | 5.7                   | -22.2                | -27.8       |
| 8.9              | 5.6                   | -22.7                | -28.2       |
| 9.0              | 5.4                   | -22.7                | -28.1       |
| 9.1              | 5.3                   | -24.7                | -30.0       |
| 9.2              | 5.2                   | -25.7                | -30.9       |
| 9.3              | 5.1                   | -30.2                | -35.2       |
| 9.4              | 5.0                   | -27.7                | -32.6       |

|     |      |       |       |
|-----|------|-------|-------|
| 4.9 | 12.0 | -29.7 | -41.7 |
| 5.0 | 11.8 | -32.2 | -44.0 |
| 5.1 | 11.6 | -27.7 | -39.3 |
| 5.2 | 11.4 | -24.7 | -36.1 |
| 5.3 | 11.2 | -23.2 | -34.3 |
| 5.4 | 11.0 | -22.2 | -33.1 |
| 5.5 | 10.8 | -21.7 | -32.4 |
| 5.6 | 10.6 | -22.7 | -33.2 |
| 5.7 | 10.4 | -23.7 | -34.1 |
| 5.8 | 10.2 | -26.7 | -36.9 |
| 5.9 | 10.0 | -30.7 | -40.7 |
| 6.0 | 9.8  | -35.7 | -45.5 |

|      |       |       |       |
|------|-------|-------|-------|
| 9.5  | 4.9   | -28.8 | -33.6 |
| 9.6  | 4.7   | -30.3 | -35.0 |
| 9.7  | 4.6   | -30.3 | -34.9 |
| 9.8  | 4.5   | -32.7 | -37.2 |
| 9.9  | 4.4   | -33.2 | -37.6 |
| 10.0 | 4.3   | -33.8 | -38.1 |
| 15.0 | -0.1  | -35.2 | -35.1 |
| 20.0 | -3.2  | -44.7 | -41.4 |
| 25.0 | -5.6  | -38.7 | -33.0 |
| 30.0 | -7.6  | -42.7 | -35.0 |
| 35.0 | -9.3  | -47.7 | -38.4 |
| 40.0 | -10.8 | -41.7 | -30.9 |
| 45.0 | -12.0 | -42.7 | -30.6 |

| <b>EIRP DENSITY TABLE, HORIZON - §25.218 (h) (3)</b> |           |                         |       |          |
|--|-----------|-------------------------|-------|----------|
| <b>Antenna Manufacturer</b>                          | Prodelin  | <b>Antenna Diameter</b> | 2.4   | M        |
| <b>Antenna Model</b>                                 | 1351      | <b>Antenna Gain</b>     | 42.5  | dBi      |
| <b>Transmit Frequency</b>                            | 6.245 GHz | <b>Max EIRP Density</b> | -25.2 | dBW/4KHz |

A horizon gain table was generated for this particular location and satellite arc, as part of the frequency coordination report included with the underlying application.