

## Exhibit 13

### *Freespace Interference Study based on Vertical Radiation Pattern ERI 100-4HW 4 Bay Half Wave Spaced Antenna*

| Depression<br>Angle from<br>Antenna | Antenna<br>Relative<br>Field | ERP<br>Watts | ERP<br>dBk | Distance to<br>Ground from<br>Antenna (m) | Free Space<br>Signal (dBu) | dB Loss<br>for Reflection | Signal Strength<br>at Ground (dBu) | Circular Distance<br>From Tower (m) | Distance to<br>Contour using<br>Free Space (m) | Height of<br>Contour above<br>Ground (m) |
|-------------------------------------|------------------------------|--------------|------------|---|----------------------------|---------------------------|------------------------------------|-------------------------------------|--|--|
| 90                                  | 0.001                        | 0.000        | -79.21     | 42.00                                     | 55.25                      | 0                         | 55.25                              | 0.00                                | 0.23   | 41.77                                    |
| 85                                  | 0.005                        | 0.000        | -65.23     | 42.16                                     | 69.19                      | 0                         | 69.19                              | 3.67                                | 1.13   | 40.87                                    |
| 80                                  | 0.010                        | 0.001        | -59.21     | 42.65                                     | 75.11                      | 0                         | 75.11                              | 7.41                                | 2.27   | 39.77                                    |
| 75                                  | 0.025                        | 0.008        | -51.25     | 43.48                                     | 82.90                      | 0                         | 82.90                              | 11.25                               | 5.67   | 36.52                                    |
| 70                                  | 0.040                        | 0.019        | -47.17     | 44.70                                     | 86.75                      | 0                         | 86.75                              | 15.29                               | 9.07   | 33.48                                    |
| 65                                  | 0.075                        | 0.068        | -41.71     | 46.34                                     | 91.89                      | 0                         | 91.89                              | 19.58                               | 17.01  | 26.59                                    |
| 60                                  | 0.110                        | 0.145        | -38.38     | 48.50                                     | 94.83                      | 0                         | 94.83                              | 24.25                               | 24.94  | 20.40                                    |
| 55                                  | 0.150                        | 0.270        | -35.69     | 51.27                                     | 97.04                      | 0                         | 97.04                              | 29.41                               | 34.02  | 14.14                                    |
| 50                                  | 0.185                        | 0.411        | -33.86     | 54.83                                     | 98.28                      | 0                         | 98.28                              | 35.24                               | 41.95  | 9.86                                     |
| 45                                  | 0.199                        | 0.475        | -33.23     | 59.40                                     | 98.21                      | 0                         | 98.21                              | 42.00                               | 45.13  | 10.09                                    |
| 40                                  | 0.180                        | 0.389        | -34.10     | 65.34                                     | 96.51                      | 0                         | 96.51                              | 50.05                               | 40.82  | 15.76                                    |
| 35                                  | 0.115                        | 0.159        | -37.99     | 73.22                                     | 91.63                      | 0                         | 91.63                              | 59.98                               | 26.08  | 27.04                                    |
| 30                                  | 0.005                        | 0.000        | -65.23     | 84.00                                     | 63.21                      | 0                         | 63.21                              | 72.75                               | 1.13   | 41.43                                    |
| 25                                  | 0.180                        | 0.389        | -34.10     | 99.38                                     | 92.87                      | 0                         | 92.87                              | 90.07                               | 40.82  | 24.75                                    |
| 20                                  | 0.395                        | 1.872        | -27.28     | 122.80                                    | 97.86                      | 0                         | 97.86                              | 115.39                              | 89.58  | 11.36                                    |
| 15                                  | 0.615                        | 4.539        | -23.43     | 162.28                                    | 99.28                      | 0                         | 99.28                              | 156.75                              | 139.47   | 5.90                                     |
| 10                                  | 0.810                        | 7.873        | -21.04     | 241.87                                    | 98.21                      | 0                         | 98.21                              | 238.19                              | 183.69   | 10.10                                    |
| 5                                   | 0.950                        | 10.830       | -19.65     | 481.90                                    | 93.61                      | 0                         | 93.61                              | 480.06                              | 215.43   | 23.22                                    |

Distance to Ground Level assumes flat ground or a site where the site level is above average terrain in all azimuths.

|                     |            |                         |       |                               |       |
|---------------------|------------|-------------------------|-------|-------------------------------|-------|
| Maximum ERP         | 12 watts   | Max dBu at Ground Level | 99.28 | Lowest Height of Contour (m)  | 5.90  |
| Radiation Center AG | 42 m       |                         |       | Lowest Height of Contour (ft) | 19.37 |
| Radiation Center AG | 138 ft.    |                         |       |                               |       |
| Maximum ERP         | -19.21 dBk |                         |       |                               |       |
| Protected dBu       | 60.6 dBu   |                         |       |                               |       |
| Interfering dBu     | 100.6 dBu  |                         |       |                               |       |
| Free Space Distance | 226.77 m   |                         |       |                               |       |
|                     | 744 ft.    |                         |       |                               |       |