

## Exhibit B

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Intelsat License LLC**  
**ANDOVER-C38, ME**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
May 03, 2022

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## **1. CONCLUSIONS**

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

## **2. SUMMARY OF RESULTS**

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

### 3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 01/07/2022.

#### Company

AT&T Mobility Spectrum LLC-Vermont  
Axiom Technologies, LLC  
BAE Systems Information & Electronic Sys  
BAE Systems Information & Electronic Sys  
Bangor Cellular Telephone, L.P.  
Cellco Partnership - CT, W-MA, VT  
Central Maine Power Company  
Citizens Telecommunications of New York  
Consolidated Communications of N NE Co.  
Cumberland County, Maine  
Encina Communications Corporation  
Essex County Office of Emergency Srv-NY  
Eversource Energy Service Company  
HUDSON VALLEY WIRELESS  
Hamilton, County of  
Herkimer, County of  
Hydro-Quebec Technologie  
Island Telephone Company  
JKL Communications LLC  
Lakes Region Mutual Fire Aid  
Lewis, County of  
Maine RSA #1 Inc.  
Maine RSA #4 Limited Partnership  
NH #1 Rural Cellular, Inc.  
NH Department of Safety  
National Grid USA Service Company, Inc  
New Cingular Wireless PCS LLC-Maine  
New Cingular Wireless PCS LLC-Vermont  
New Cingular Wireless PCS, LLC (NY)  
New Hampshire #1 Rural Cellular Inc.  
New Hampshire Dept of Transportation  
New Hampshire Electric Cooperative  
New York Power Authority  
New York State Electric & Gas Corp  
Oneida County Emergency Services  
Pacific and Southern, LLC  
Transwave Communication Systems, Inc.  
University of New Hampshire  
VTel Wireless, Inc.  
Vermont Electric Power Company Inc.

Vermont State Dept Public Safety  
Vermont Transco, LLC

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Date: 05/03/2022  
Job Number: 220107COMSGE04

### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign  
Licensee Code INTELS  
Licensee Name Intelsat License LLC

### Site Information ANDOVER-C38, ME

Venue Name  
Latitude (NAD 83) 44° 37' 56.7" N  
Longitude (NAD 83) 70° 41' 59.1" W  
Climate Zone A  
Rain Zone 2  
Ground Elevation (AMSL) 269.46 m / 884.1 ft

### Link Information

Satellite Type Geostationary  
Mode TR - Transmit-Receive  
Modulation Digital  
Satellite Arc 1° W to 141° West Longitude  
Azimuth Range 104.6° to 255.9°  
Corresponding Elevation Angles 5.6° / 5.2°  
Antenna Centerline (AGL) 5.49 m / 18.0 ft

### Antenna Information

Manufacturer CPI Sat  
Model 13.1THC  
Gain / Diameter 53.0 dBi / 13.1 m  
3-dB / 15-dB Beamwidth 0.38° / 0.76°

### Receive - FCC32

Max Available RF Power (dBW/4 kHz)  
(dBW/MHz)

CPI Sat  
13.1THC  
53.0 dBi / 13.1 m  
0.38° / 0.76°

### Transmit - FCC32

CPI Sat  
13.1THC  
56.6 dBi / 13.1 m  
0.26° / 0.52°

Maximum EIRP (dBW/4 kHz)  
(dBW/MHz)

5.8  
29.8

62.4  
86.4

Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%  
-131.0 dBW/4 kHz 0.0025%

### Frequency Information

Emission / Frequency Range (MHz)

### Receive 4.0 GHz

56K0G7W - 72M0G7W / 3625.0 - 4200.0  
500KG7D, 1M00G7D, 1M50G7D / 3630.0 - 3710.0  
500KG7D, 1M00G7D, 1M50G7D / 3945.0 - 3955.0  
500KG7D, 1M00G7D, 1M50G7D / 4190.0 - 4200.0

### Transmit 6.1 GHz

64K0G7W - 72M0G7W / 5850.0 - 6425.0  
1M00F7D - 1M50F7D / 5850.0 - 5935.0  
1M00F7D - 1M50F7D / 6170.0 - 6180.0  
1M00F7D - 1M50F7D / 6415.0 - 6425.0  
1M00F7D - 1M50F7D / 6715.0 - 6725.0

Max Great Circle Coordination Distance 670.7 km / 416.7 mi  
Precipitation Scatter Contour Radius 615.2 km / 382.2 mi

488.1 km / 303.3 mi  
377.8 km / 234.7 mi



# COMSEARCH

## Earth Station Data Sheet

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| Coordination Values                |  | ANDOVER-C38, ME      |       |                  |         |
|------------------------------------|--|----------------------|-------|------------------|---------|
| Licensee Name                      |  | Intelsat License LLC |       |                  |         |
| Latitude (NAD 83)                  |  | 44° 37' 56.7" N      |       |                  |         |
| Longitude (NAD 83)                 |  | 70° 41' 59.1" W      |       |                  |         |
| Ground Elevation (AMSL)            |  | 269.46 m / 884.1 ft  |       |                  |         |
| Antenna Centerline (AGL)           |  | 5.49 m / 18.0 ft     |       |                  |         |
| Antenna Model                      |  | CPI Sat 13.1 meter   |       |                  |         |
| Antenna Mode                       |  | Receive 4.0 GHz      |       | Transmit 6.1 GHz |         |
| Interference Objectives: Long Term |  | -156.0 dBW/MHz       | 20%   | -154.0 dBW/4 kHz | 20%     |
| Short Term                         |  | -146.0 dBW/MHz       | 0.01% | -131.0 dBW/4 kHz | 0.0025% |
| Max Available RF Power             |  | 5.8 (dBW/4 kHz)      |       |                  |         |

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 4.0 GHz       |                               | Transmit 6.1 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 0           | 0.44                     | 104.07                        | -10.00                | 256.60                        | -10.00                | 179.88                        |
| 5           | 1.04                     | 99.54                         | -10.00                | 219.19                        | -10.00                | 143.42                        |
| 10          | 0.51                     | 94.55                         | -10.00                | 249.27                        | -10.00                | 173.38                        |
| 15          | 0.58                     | 89.57                         | -10.00                | 244.37                        | -10.00                | 168.80                        |
| 20          | 0.98                     | 84.59                         | -10.00                | 221.43                        | -10.00                | 145.49                        |
| 25          | 0.95                     | 79.61                         | -10.00                | 222.87                        | -10.00                | 146.83                        |
| 30          | 1.46                     | 74.61                         | -10.00                | 206.59                        | -10.00                | 133.22                        |
| 35          | 2.09                     | 69.61                         | -10.00                | 192.50                        | -10.00                | 118.42                        |
| 40          | 2.95                     | 64.60                         | -10.00                | 172.58                        | -10.00                | 101.73                        |
| 45          | 2.51                     | 59.62                         | -10.00                | 182.75                        | -10.00                | 110.08                        |
| 50          | 2.50                     | 54.63                         | -10.00                | 183.00                        | -10.00                | 110.29                        |
| 55          | 2.94                     | 49.62                         | -10.00                | 172.95                        | -10.00                | 102.03                        |
| 60          | 3.25                     | 44.62                         | -9.24                 | 169.63                        | -9.24                 | 100.00                        |
| 65          | 2.95                     | 39.65                         | -7.96                 | 182.98                        | -7.96                 | 109.37                        |
| 70          | 2.56                     | 34.69                         | -6.51                 | 198.69                        | -6.51                 | 122.20                        |
| 75          | 2.09                     | 29.76                         | -4.84                 | 214.66                        | -4.84                 | 136.32                        |
| 80          | 2.77                     | 24.73                         | -2.83                 | 209.65                        | -2.83                 | 132.02                        |
| 85          | 3.07                     | 19.73                         | -0.38                 | 216.12                        | -0.38                 | 134.32                        |
| 90          | 3.06                     | 14.79                         | 2.75                  | 235.51                        | 2.75                  | 147.60                        |
| 95          | 1.90                     | 10.27                         | 6.71                  | 299.28                        | 6.71                  | 196.38                        |
| 100         | 2.40                     | 5.60                          | 13.30                 | 340.29                        | 13.30                 | 214.98                        |
| 105         | 3.07                     | 2.60                          | 21.61                 | 637.57                        | 21.61                 | 463.26                        |
| 110         | 2.37                     | 6.09                          | 12.38                 | 390.30                        | 12.38                 | 258.14                        |
| 115         | 2.80                     | 9.12                          | 8.00                  | 281.94                        | 8.00                  | 181.41                        |
| 120         | 1.85                     | 13.10                         | 4.07                  | 279.78                        | 4.07                  | 184.93                        |
| 125         | 1.78                     | 16.33                         | 1.67                  | 264.64                        | 1.67                  | 175.37                        |
| 130         | 2.47                     | 18.85                         | 0.12                  | 233.43                        | 0.12                  | 148.44                        |
| 135         | 3.13                     | 21.21                         | -1.17                 | 210.63                        | -1.17                 | 131.65                        |
| 140         | 2.60                     | 24.37                         | -2.67                 | 214.36                        | -2.67                 | 134.61                        |
| 145         | 1.21                     | 28.06                         | -4.20                 | 245.77                        | -4.20                 | 163.51                        |
| 150         | 2.14                     | 29.55                         | -4.76                 | 213.74                        | -4.76                 | 135.50                        |
| 155         | 3.00                     | 30.79                         | -5.21                 | 195.51                        | -5.21                 | 118.90                        |
| 160         | 2.69                     | 32.76                         | -5.88                 | 198.86                        | -5.88                 | 122.08                        |
| 165         | 2.01                     | 34.76                         | -6.53                 | 208.00                        | -6.53                 | 132.64                        |
| 170         | 1.28                     | 36.47                         | -7.05                 | 226.69                        | -7.05                 | 148.23                        |
| 175         | 2.07                     | 36.31                         | -7.00                 | 204.54                        | -7.00                 | 129.78                        |
| 180         | 2.49                     | 36.09                         | -6.94                 | 198.18                        | -6.94                 | 121.93                        |
| 185         | 1.98                     | 36.39                         | -7.03                 | 206.36                        | -7.03                 | 131.43                        |

# COMSEARCH

## Earth Station Data Sheet

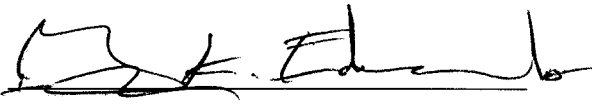
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| Longitude (NAD 83)       |  | 70° 41' 59.1" W      |                |                  |                          |
| Ground Elevation (AMSL)  |  | 269.46 m / 884.1 ft  |                |                  |                          |
| Antenna Centerline (AGL) |  | 5.49 m / 18.0 ft     |                |                  |                          |
| Antenna Model            |  | CPI Sat 13.1 meter   |                |                  |                          |
| Antenna Mode             |  | Receive 4.0 GHz      |                | Transmit 6.1 GHz |                          |
| Interference Objectives: |  | Long Term            | -156.0 dBW/MHz | 20%              | -154.0 dBW/4 kHz 20%     |
|                          |  | Short Term           | -146.0 dBW/MHz | 0.01%            | -131.0 dBW/4 kHz 0.0025% |
| Max Available RF Power   |  | 5.8 (dBW/4 kHz)      |                |                  |                          |

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 4.0 GHz       |                               | Transmit 6.1 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 190         | 1.11                     | 36.64                         | -7.10                 | 232.26                        | -7.10                 | 153.34                        |
| 195         | 0.47                     | 36.24                         | -6.98                 | 272.11                        | -6.98                 | 190.06                        |
| 200         | 0.00                     | 35.26                         | -6.68                 | 307.27                        | -6.68                 | 214.77                        |
| 205         | 0.68                     | 32.88                         | -5.92                 | 262.60                        | -5.92                 | 181.27                        |
| 210         | 0.71                     | 30.81                         | -5.22                 | 265.52                        | -5.22                 | 183.11                        |
| 215         | 0.79                     | 28.41                         | -4.34                 | 265.81                        | -4.34                 | 182.62                        |
| 220         | 0.86                     | 25.79                         | -3.29                 | 268.22                        | -3.29                 | 183.57                        |
| 225         | 1.57                     | 22.47                         | -1.79                 | 248.24                        | -1.79                 | 163.33                        |
| 230         | 3.00                     | 18.43                         | 0.36                  | 222.14                        | 0.36                  | 138.68                        |
| 235         | 2.33                     | 15.90                         | 1.96                  | 249.28                        | 1.96                  | 160.22                        |
| 240         | 1.62                     | 13.28                         | 3.92                  | 287.31                        | 3.92                  | 190.89                        |
| 245         | 2.15                     | 9.60                          | 7.45                  | 296.82                        | 7.45                  | 193.56                        |
| 250         | 2.49                     | 6.01                          | 12.52                 | 377.06                        | 12.52                 | 247.26                        |
| 255         | 2.68                     | 2.68                          | 21.29                 | 670.71                        | 21.29                 | 488.10                        |
| 260         | 2.13                     | 5.15                          | 14.20                 | 357.42                        | 14.20                 | 226.35                        |
| 265         | 1.10                     | 10.00                         | 7.00                  | 334.14                        | 7.00                  | 218.68                        |
| 270         | 0.41                     | 14.90                         | 2.67                  | 349.45                        | 2.67                  | 235.89                        |
| 275         | 0.00                     | 19.80                         | -0.41                 | 353.44                        | -0.41                 | 242.90                        |
| 280         | 0.00                     | 24.65                         | -2.79                 | 335.63                        | -2.79                 | 231.66                        |
| 285         | 0.00                     | 29.55                         | -4.76                 | 321.37                        | -4.76                 | 222.88                        |
| 290         | 0.00                     | 34.47                         | -6.44                 | 308.96                        | -6.44                 | 215.78                        |
| 295         | 0.00                     | 39.41                         | -7.89                 | 299.05                        | -7.89                 | 209.89                        |
| 300         | 0.00                     | 44.37                         | -9.18                 | 290.57                        | -9.18                 | 204.89                        |
| 305         | 0.00                     | 49.33                         | -10.00                | 285.28                        | -10.00                | 203.38                        |
| 310         | 0.49                     | 54.26                         | -10.00                | 250.76                        | -10.00                | 174.63                        |
| 315         | 0.00                     | 59.26                         | -10.00                | 285.28                        | -10.00                | 203.38                        |
| 320         | 0.00                     | 64.24                         | -10.00                | 285.28                        | -10.00                | 203.38                        |
| 325         | 0.54                     | 69.19                         | -10.00                | 247.30                        | -10.00                | 171.56                        |
| 330         | 0.26                     | 74.18                         | -10.00                | 278.22                        | -10.00                | 197.90                        |
| 335         | 0.44                     | 79.16                         | -10.00                | 256.80                        | -10.00                | 180.05                        |
| 340         | 0.47                     | 84.14                         | -10.00                | 252.89                        | -10.00                | 176.57                        |
| 345         | 1.07                     | 89.12                         | -10.00                | 218.02                        | -10.00                | 142.34                        |
| 350         | 1.59                     | 94.11                         | -10.00                | 205.52                        | -10.00                | 130.07                        |
| 355         | 0.78                     | 99.09                         | -10.00                | 232.22                        | -10.00                | 155.59                        |

## 5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards  
Senior Manager  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: May 03, 2022