



## Exhibit B

### Frequency Coordination and Interference Analysis Report

Viasat has contacted the local broadcaster operating in overlapping frequency bands as well as the local Society of Broadcast Engineer frequency coordinator and provided an interference analysis based on operating test parameters contained in this application.

*Table 1 Local Frequency Coordinators*

| Name             | Email Address             |
|------------------|---------------------------|
| Gary Alexander   | Gary.Alexander@wsbtv.com  |
| Neil Mazur       | Neil.Mazur@FOXTV.COM      |
| G Davis          | gadavis@11alive.com       |
| Andy Kelly       | Andy.Kelly@FOXTV.COM      |
| Joseph Carey     | joeseph.carey@turner.com  |
| Dave Siegler     | Dave.Siegler@coxinc.com   |
| Joe Snelson      | joe.snelson@meredith.com  |
| Adam Bull        | closedcaptions@wupatv.com |
| Gary Watkins     | gary.watkins@cbs46.com    |
| Jeffrey Whaley   | Jeffery.whaley@cbs46.com  |
| M Watson         | mwatson2@11alive.com      |
| Mark Johnson     | Mark.Johnson@cbs46.com    |
| April Michaels * | April.Michaels@cbs46.com  |
| Larry Oaks       | Larry.Oaks@meredith.com   |
| Victor Murphy    | vmurphy@11alive.com       |

\*SBE Coordinator for Above 1 GHz

Testing to be conducted is consistent with the previously authorized special temporary authority granted under WO9XCN<sup>1</sup>. No changes to the testing parameters of that authorization are required thus the previously submitted frequency coordination and interference analysis report are here re-submitted.

Appendix A is the letter sent on 7 May, 2020 to the local frequency coordinators and SBE coordinator listed in Table 1. Appendix B is the interference analysis report provided to the local frequency coordinators.

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<sup>1</sup> See File No. 0419-EX-ST-2019, Call Sign WO9XCN (application for special temporary authority).



## Appendix A

May 7, 2020

Re: Viasat, Inc.  
Duluth, GA.  
S-band Transmit only Earth Station

Dear Frequency Coordinator,

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached coordination data for an S-Band Temporary Transmit-Only Experimental Earth Station to be located in Duluth, GA.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s). The testing is to occur between May 18, 2020 to November 25, 2020.

Testing to be conducted under this request is a continuation of the previously authorized special temporary authority under call sign WO9XCN. As part of the coordination requirement for that authority an interference analysis report was sent to you on March 4, 2019. That analysis is has not changed as the testing parameters have not and is again provided to you.

Viasat respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by March 22, 2019.

If there are any questions concerning this coordination notice, please contact Steven C. Hemple at Viasat, Inc.

Sincerely,

Steven C. Hemple  
Engineer, Regulatory Affairs

Work: 760.476.4812  
Cell: 760.681.9337  
steven.hemple@viasat.com



## Appendix B

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**ViaSat Inc.**  
**Duluth, GA**  
**Satellite Earth Station**

Prepared By:  
SkjeiTelecom, Inc.  
7700 Leesburg Pike, Ste 238  
Falls Church, VA 22043

March 12, 2019

## TABLE OF CONTENTS

|                                         |    |
|-----------------------------------------|----|
| 1. CONCLUSIONS .....                    | 3  |
| 2. SUMMARY OF RESULTS .....             | 4  |
| 3. SUPPLEMENTAL SHOWING .....           | 5  |
| 4. EARTH STATION COORDINATION DATA..... | 7  |
| 5. CERTIFICATION.....                   | 11 |

## **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 Skjei 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 03/04/2019.

#### S-band Contact

| Name             | Email Address             |
|------------------|---------------------------|
| Gary Alexander   | Gary.Alexander@wsbtv.com  |
| Neil Mazur       | Neil.Mazur@FOXTV.COM      |
| G Davis          | gadavis@11alive.com       |
| Andy Kelly       | Andy.Kelly@FOXTV.COM      |
| Joseph Carey     | joeseph.carey@turner.com  |
| Dave Siegler     | Dave.Siegler@coxinc.com   |
| Joe Snelson      | joe.snelson@meredith.com  |
| Adam Bull        | closedcaptions@wupatv.com |
| Gary Watkins     | gary.watkins@cbs46.com    |
| Jeffrey Whaley   | Jeffery.whaley@cbs46.com  |
| M Watson         | mwatson2@11alive.com      |
| Mark Johnson     | Mark.Johnson@cbs46.com    |
| April Michaels * | April.Michaels@cbs46.com  |
| Larry Oaks       | Larry.Oaks@meredith.com   |

\*SBE Coordinator for Above 1 GHz

## **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.

March 4, 2019

Re: ViaSat, Inc.  
Duluth, GA  
S-Band Transmit Only Earth Station  
PCN Job Number: 190304SKJTEL01

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached coordination data on behalf of Viasat, Inc., 6155 El Camino Real, Carlsbad, CA 92009 for an S-Band Temporary Transmit-Only Experimental Earth Station to be located in Duluth, GA.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s). The testing is to occur between March 25, 2019 to October 25<sup>th</sup>, 2019.

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by March 22, 2019.

If there are any questions concerning this coordination notice, please contact Skjei Telecom.

Sincerely,

Skjei Telecom, Inc.

Ken Ryan  
ken@skjeitelecom.com  
7700 Leesburg Pike, 248S  
Falls Church, VA 22043  
(703) 917-4020  
Fax: (703) 917-0098

Enclosure(s)

**Skjei Telecom, Inc.**  
**Earth Station Data Sheet**

|                                        |                                 |           |
|----------------------------------------|---------------------------------|-----------|
| Date                                   | 3/04/2019                       |           |
| Job Number                             | 190304SKJTEL01                  |           |
| Administrative Information             |                                 |           |
| Status                                 | TEMP COORDINATION PROPOSAL      |           |
| Call Sign                              |                                 |           |
| Licensee Code                          |                                 |           |
| Licensee Name                          | ViaSat, Inc.                    |           |
| Site Information                       |                                 |           |
| Venue Name                             | Duluth, GA                      |           |
| Latitude (NAD 83)                      | 33-57-46.79                     | N         |
| Longitude (NAD 83)                     | 84-05-45.22                     | W         |
| Climate Zone                           | A                               |           |
| Rain Zone                              | 1                               |           |
| Ground Elevation (AMSL)                | 280.1 m / 919 ft                |           |
| Link Information                       |                                 |           |
| Satellite Type                         | LEO, zenith testing only        |           |
| Mode                                   | WorldView-1, WV-4               |           |
| Modulation                             | TO - Transmit-Only              |           |
| Minimum Elevation Angle                | Digital                         |           |
| Azimuth Range                          | 12.5°                           |           |
| Antenna Centerline (AGL)               | 0° - 360°                       |           |
| Antenna Information Transmit           | 4.5m/15ft                       |           |
| Manufacturer                           | FCC Reference Pattern           |           |
| Model                                  | ViaSat                          |           |
| Gain / Diameter                        | 3440                            |           |
| 3-dB / 15-dB Half-Beamwidth            | 7.3m                            |           |
| Max Available RF Power (dB)            | 0.919 / 1.92                    |           |
| Maximum EIRP (dB)                      | -13.0                           | dBW/4kHz  |
|                                        | 11.0                            | dBW/MHz   |
|                                        | 27.5                            | dBW/4kHz  |
|                                        | 51.5                            | dBW/MHz   |
| Interference Objectives                |                                 |           |
| Long Term                              | -154                            | dBW/4 kHz |
| Short Term                             | -131                            | dBW/4 KHz |
| Frequency Information Transmit         |                                 |           |
| Emission / Frequency Range (MHz)       | Transmit 2.05 GHz               |           |
|                                        | 1M40G7D / 2051.3 - 2052.7       |           |
|                                        | 1M40G7D / 2084.9875 - 2086.3875 |           |
| Max Great Circle Coordination Distance |                                 |           |
|                                        | 220 km / 136.7 mi               |           |

## Skjei Telecom, Inc.

### Earth Station Data Sheet

|                          |                          |          |
|--------------------------|--------------------------|----------|
| Site                     | Duluth, GA               |          |
| Satellite NGSO           | NGSO, Worldview -1, WV-4 |          |
| Site Coordinates         | 33.9630                  | N        |
|                          | 84.0959                  | W        |
| Maximum Horizon Gain     | -10.0                    | dBi      |
| Azimuth                  | 0-360                    | degrees  |
| Maximum RF Power Density | -13.0                    | dBW/4kHz |
| Maximum EIRP Density     | 27.5                     | dBW/4kHz |

| Azimuth to Earth<br>Station (deg.) | Horizon<br>Elevation (°) | Earth Station<br>Disc. Angle (deg.) | Earth Station<br>Gain (dBi) | Coordination<br>Distance (km) |
|------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------|
| 0                                  | 0                        | 90.00                               | -10.00                      | 220                           |
| 5                                  | 0                        | 90.00                               | -10.00                      | 220                           |
| 10                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 15                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 20                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 25                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 30                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 35                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 40                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 45                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 50                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 55                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 60                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 65                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 70                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 75                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 80                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 85                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 90                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 95                                 | 0                        | 90.00                               | -10.00                      | 220                           |
| 100                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 105                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 110                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 115                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 120                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 125                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 130                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 135                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 140                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 145                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 150                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 155                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 160                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 165                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 170                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 175                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 180                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 185                                | 0                        | 90.00                               | -10.00                      | 220                           |

## Skjei Telecom, Inc.

### Earth Station Data Sheet

|                          |                          |          |
|--------------------------|--------------------------|----------|
| Site                     | Duluth, GA               |          |
| Satellite NGSO           | NGSO, Worldview -1, WV-4 |          |
| Site Coordinates         | 33.9630                  | N        |
|                          | 84.0959                  | W        |
| Maximum Horizon Gain     | 4.6                      | dBi      |
| Azimuth                  | 0-360                    | degrees  |
| Maximum RF Power Density | -13.0                    | dBW/4kHz |
| Maximum EIRP Density     | 27.5                     | dBW/4kHz |

| Azimuth to Earth<br>Station (deg.) | Horizon<br>Elevation (°) | Earth Station<br>Disc. Angle (deg.) | Earth Station<br>Gain (dBi) | Coordination<br>Distance (km) |
|------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------|
| 190                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 195                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 200                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 205                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 210                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 215                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 220                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 225                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 230                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 235                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 240                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 245                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 250                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 255                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 260                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 265                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 270                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 275                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 280                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 285                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 290                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 295                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 300                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 305                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 310                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 315                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 320                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 325                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 330                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 335                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 340                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 345                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 350                                | 0                        | 90.00                               | -10.00                      | 220                           |
| 355                                | 0                        | 90.00                               | -10.00                      | 220                           |

## 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: \_

Ken Ryan, P.E.  
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DATED: March 12, 2019