Report No. SPB-283 Released: August 17, 2020

Request for Coordination of Canadian Earth Stations

with USA Terrestrial Fixed Stations

The government of Canada has requested frequency coordination for the following Canadian earth stations operating in the 3700-4200 MHz and 5925-6425 MHz frequency bands. Interested parties may file comments regarding this request no later than September 16, 2020. If no adverse comments are received by that date, these earth stations will be considered satisfactorily coordinated with the USA and Canada will be so advised.

In accordance with Section 1.51(c) of the Commission's rules, an original and four copies of all pleadings must be filed with the Secretary at the above address. All correspondence concerning this matter must reference this public notice using "Report No. SPB-283”.

For further information, contact Towanda Bryant, Satellite Division, International Bureau, (202) 418-7245 or Towanda.Bryant@fcc.gov.

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000849 003

Location: Allan Park ON

Coordinates: 44N1025 080W5610

Ground Height (AMSL)/Antenna Height (AGL): 285.00m / 4.50m

Antenna Diameter: 7.30m

Antenna Azimuth/Elevation Angle: 219.85 deg / 30.88 deg

TX Antenna Gain / TX Polarity: 51.60 dBi / Horizontal

RX Antenna Gain / RX Polarity: 47.70 dBi / Vertical

Satellite Operating Arc: 111.10 deg

Satellite transmission VIA: ANIK E-B

Date Effective: October 10, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,948.35000 MHz 2M00G1D-- 51.90 dBW -62.7 dB(W/Hz)

6,156.77650 MHz 1M79G1D-- 50.00 dBW -64.1 dB(W/Hz)

6,263.00400 MHz 64K0G1D-- 39.70 dBW -60.0 dB(W/Hz)

6,347.68500 MHz 64K0G1D-- 38.70 dBW -61.0 dB(W/Hz)

6,361.18150 MHz 42K7G1D-- 38.40 dBW -59.5 dB(W/Hz)

RX Frequency: RX Emission(s):

3,732.61620 MHz 992KG1D--

4,094.77870 MHz 1M32D1D--

4,122.58500 MHz 64K0G1D--

4,136.24650 MHz 42K7G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000915 002

Location: Montreal QC

Coordinates: 45N3121 073W3301

Ground Height (AMSL)/Antenna Height (AGL): 17.00m / 6.40m

Antenna Diameter: 7.30m

Antenna Azimuth/Elevation Angle: 234.66 deg / 21.54 deg

TX Antenna Gain / TX Polarity: 51.10 dBi / Horizontal

RX Antenna Gain / RX Polarity: 47.20 dBi / Vertical

Satellite Operating Arc: -118.70 deg

Satellite transmission VIA: ANIK E-D

Date Effective: October 28, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,350.26700 MHz 4M95D1D-- 56.80 dBW -61.20 dB(W/Hz)

6,362.28900 MHz 3M36D1D-- 57.40 dBW -59.00 dB(W/Hz)

RX Frequency: RX Emission(s):

4,131.8020 MHz 4M95D1D--

4,141.7300 MHz 3M36D1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000891 002

Location: Montreal QC

Coordinates: 45N3121 073W3301

Ground Height (AMSL)/Antenna Height (AGL): 18.00 m / 4.50 m

Antenna Diameter: 7.30m

Antenna Azimuth/Elevation Angle: 227.16 deg / 25.94 deg

TX Antenna Gain / TX Polarity: 51.10 dBi / Horizontal

RX Antenna Gain / RX Polarity: 47.20 dBi / Vertical

Satellite Operating Arc: -111.10

Satellite transmission VIA: ANIK E-B

Date Effective: November 1, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,951.68800 MHz 805KG1D‑‑ 51.50 dBW -58.7 dB(W/Hz)

5,967.51000 MHz 756KD1D‑‑ 52.80 dBW -57.1 dB(W/Hz)

5,973.28100 MHz 713KG1D‑‑ 49.20 dBW -60.5 dB(W/Hz)

5,975.14500 MHz 686KD1D‑‑ 51.90 dBW -57.6 dB(W/Hz)

5,978.03000 MHz 3M53D1D‑‑ 58.30 dBW -58.3 dB(W/Hz)

5,997.01900 MHz 85K3G1D‑‑ 40.30 dBW -60.1 dB(W/Hz)

5,997.89500 MHz 37K3G1D‑‑ 36.70 dBW -60.1 dB(W/Hz)

5,998.03700 MHz 37K3G1D‑‑ 36.70 dBW -60.1 dB(W/Hz)

5,998.14750 MHz 37K3G1D‑‑ 36.70 dBW -60.1 dB(W/Hz)

5,998.36750 MHz 37K3G1D‑‑ 36.70 dBW -60.1 dB(W/Hz)

6,013.51800 MHz 8M27D1D‑‑ 61.00 dBW -59.3 dB(W/Hz)

6,045.00000 MHz 30M4D1D‑‑ 70.50 dBW -55.4 dB(W/Hz)

6,282.44700 MHz 6M67G1D‑‑ 57.40 dBW -61.9 dB(W/Hz)

6,347.24300 MHz 82K8G1D‑‑ 43.60 dBW -56.7 dB(W/Hz)

6,350.59850 MHz 44K8G1D‑‑ 39.00 dBW -58.6 dB(W/Hz)

6,360.81650 MHz 12M5D1D‑‑ 60.00 dBW -62.1 dB(W/Hz)

6,361.53000 MHz 37K3G1D‑‑ 37.70 dBW -59.1 dB(W/Hz)

6,370.53530 MHz 3M75D1D‑‑ 56.00 dBW -60.8 dB(W/Hz)

6,421.35550 MHz 2M86G1D‑‑ 53.40 dBW -62.3 dB(W/Hz)

RX Frequency: RX Emission(s):

3,725.78800 MHz 300KG1D--

3,729.73800 MHz 570KD1D--

3,743.53000 MHz 756KD1D--

3,748.68500 MHz 1M46D1D--

3,756.13200 MHz 1M06G1D--

3,757.33800 MHz 727KD1D--

3,758.77000 MHz 727KG1D--

3,760.70600 MHz 686KD1D--

3,764.65700 MHz 4M54G1D--

3,772.76450 MHz 235KG1D--

4,057.44700 MHz 6M66G1D--

4,122.09300 MHz 135KG1D--

4,125.53350 MHz 44K8G1D—

4,125.53350 MHz 44K8G1D--

4,126.82950 MHz 1M50D1D--

4,135.81650 MHz 12M5G1D--

4,136.47000 MHz 37K3D1D--

4,150.07500 MHz 640KD1D--

4,154.31500 MHz 6M14D1D--

4,193.10600 MHz 2M85G1D—

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000943 002

Location: Vancouver BC

Coordinates: 49N1610 123W0537

Ground Height (AMSL)/Antenna Height (AGL): 6.00m / 5.00m

Antenna Diameter: 3.80m

Antenna Azimuth/Elevation Angle: 164.34 deg / 32.33 deg

TX Antenna Gain / TX Polarity: 45.70 dBi / Horizontal

RX Antenna Gain / RX Polarity: 42.00 dBi / Vertical

Satellite Operating Arc: -110.10

Satellite transmission VIA: ANIK E-B

Date Effective: September 9, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,110.26250 MHz 4M70G1D‑‑ 62.70 dBW -49.7 dB(W/Hz)

RX Frequency: RX Emission(s):

3,889.52250 MHz 1M16G1D--

3,891.51750 MHz 1M16G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010815290 001

Location: Cantley, QC

Coordinates: 45N357 075W4831

Ground Height (AMSL)/Antenna Height (AGL): 278.00 m / 8.80 m

Antenna Diameter: 2.40 m

Antenna Azimuth/Elevation Angle: 117.59 deg / 16.06 deg

TX Antenna Gain / TX Polarity: 42.20 dBi / Circular right

RX Antenna Gain / RX Polarity: 38.00 dBi / Circular left

Satellite Operating Arc: -22.00 deg

Satellite transmission VIA: NSS-16

Date Effective: September 20, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,261.54730 MHz 200KG7W 42.30 -52.91 dB(W/Hz)

RX Frequency: RX Emission(s):

4,036.44910 MHz 200KG7W

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000849 003

Location: Allan Park ON

Coordinates: 44N1025 080W5610

Ground Height (AMSL)/Antenna Height (AGL): 285.00 m / 4.50 m

Antenna Diameter: 7.30 m

Antenna Azimuth/Elevation Angle: 219.85 deg / 30.88 deg

TX Antenna Gain / TX Polarity: 51.60 dBi / Horizontal

RX Antenna Gain / RX Polarity: 47.70 dBi / Vertical

Satellite Operating Arc: -111.10 deg

Satellite transmission VIA: ANIK E-B

Date Effective: October 10, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,948.35000 MHz 2M00G1D‑‑ 51.90 -62.7 dB(W/Hz)

6,156.77650 MHz 1M79G1D‑‑ 50.00 -64.1 dB(W/Hz)

6,263.00400 MHz 64K0G1D‑‑ 39.70 -60 dB(W/Hz)

6,347.68500 MHz 64K0G1D‑‑ 38.70 -61 dB(W/Hz)

6,361.18150 MHz 42K7G1D‑‑ 38.40 -59.5 dB(W/Hz)

RX Frequency: RX Emission(s):

3,732.61620 MHz 992KG1D--

4,094.77870 MHz 1M32D1D--

4,122.58500 MHz 64K0G1D--

4,136.24650 MHz 42K7G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000929 003

Location: Toronto ON

Coordinates: 43N3910 079W1927

Ground Height (AMSL)/Antenna Height (AGL): 80.00 m / 3.25 m

Antenna Diameter: 4.50 m

Antenna Azimuth/Elevation Angle: 221.93 deg / 30.48 deg

TX Antenna Gain / TX Polarity: 47.10 dBi / Horizontal

RX Antenna Gain / RX Polarity: 43.10 dBi / Horizontal

Satellite Operating Arc: -110.10 deg

Satellite transmission VIA: ANIK E-B

Date Effective: October 10, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,179.75500 MHz 3M93G1D‑‑ 55.40 dBW -57.6 dB(W/Hz)

6,360.40000 MHz 637KG1D‑‑ 45.20 dBW -60 dB(W/Hz)

RX Frequency: RX Emission(s):

3,954.75500 MHz 4M63G1D--

4,135.40000 MHz 1M28G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010001077 002

Location: Baie Comeau, QC

Coordinates: 49N1340 068W1121

Ground Height (AMSL)/Antenna Height (AGL): 73.00 m / 6.00 m

Antenna Diameter: 3.80 m

Antenna Azimuth/Elevation Angle: 227.03 deg / 22.42 deg

TX Antenna Gain / TX Polarity: 46.50 dBi / Horizontal

RX Antenna Gain / RX Polarity: 42.00 dBi / Vertical

Satellite Operating Arc: -107.30

Satellite transmission VIA: ANIK E-A

Date Effective: October 21, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,951.25800 MHz 2M73G1D‑‑ 59.00 -51.90 dB(W/Hz)

RX Frequency: RX Emission(s):

4,167.36600 MHz 2M02G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010001107 002

Location: L'Île-d'Anticosti QC

Coordinates: 49N4847 064W2024

Ground Height (AMSL)/Antenna Height (AGL): 1.00 m / 2.30 m

Antenna Diameter: 3.80 m

Antenna Azimuth/Elevation Angle: 230.64 deg / 20.02 deg

TX Antenna Gain / TX Polarity: 46.50 dBi / Horizontal

RX Antenna Gain / RX Polarity: 42.00 dBi / Vertical

Satellite Operating Arc: -107.30

Satellite transmission VIA: ANIK E-A

Date Effective: October 21, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,392.36600 MHz 2M02G1D‑‑ 55.50 -54.10 dB(W/Hz)

RX Frequency: RX Emission(s):

3,726.25800 MHz 2M73G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000915 002

Location: Montréal QC

Coordinates: 45N3121 073W3301

Ground Height (AMSL)/Antenna Height (AGL): 17.00 m / 6.40 m

Antenna Diameter: 7.30 m

Antenna Azimuth/Elevation Angle: 234.63 deg / 21.53 deg

TX Antenna Gain / TX Polarity: 51.10 dBi / Horizontal

RX Antenna Gain / RX Polarity: 47.20 dBi / Vertical

Satellite Operating Arc: -118.70

Satellite transmission VIA: ANNIK E-D

Date Effective: October 28, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,350.26700 MHz 4M95D1D‑‑ 56.80 -61.2 dB(W/Hz)

6,362.28900 MHz 3M36D1D‑‑ 57.40 -59.0 dB(W/Hz)

RX Frequency: RX Emission(s):

4,131.80200 MHz 4M95D1D--

4,141.73000 MHz 3M36D1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010833382 001

Location: Îles-de-la-Madeleine QC

Coordinates: 47N2247 061W5139

Ground Height (AMSL)/Antenna Height (AGL): 5.00 m / 2.20 m

Antenna Diameter: 2.40 m

Antenna Azimuth/Elevation Angle: 237.61 deg / 17.98 deg

TX Antenna Gain / TX Polarity: 42.00 dBi / Horizontal

RX Antenna Gain / RX Polarity: 38.00 dBi / Vertical

Satellite Operating Arc: -110.10

Satellite transmission VIA: ANIK E-B

Date Effective: December 16, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,378.89600 MHz 7M37D1D‑‑ 60.50 -50.20 dB(W/Hz)

RX Frequency: RX Emission(s):

3,820.00000 MHz 33M0G1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010828959 001

Location: Fraser Valley BC

Coordinates: 49N1316 121W3710

Ground Height (AMSL)/Antenna Height (AGL): 656.00 m / 3.00 m

Antenna Diameter: 2.40 m

Antenna Azimuth/Elevation Angle: 166.22 deg / 32.64 deg

TX Antenna Gain / TX Polarity: 42.00 dBi / Horizontal

RX Antenna Gain / RX Polarity: 38.00 dBi / Vertical

Satellite Operating Arc: -111.10

Satellite transmission VIA: ANIK F2

Date Effective: December 17, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,302.83000 MHz 340KG1WCT 49.00 dBw -49.00 dB(W/Hz)

RX Frequency: RX Emission(s):

4,077.30500 MHz 1M35G1WCT

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010829583 001

Location: Mission BC

Coordinates: 49N1143 122W2426

Ground Height (AMSL)/Antenna Height (AGL): 48.00 m / 3.00 m

Antenna Diameter: 2.40m

Antenna Azimuth/Elevation Angle: 165.20 deg / 32.53 deg

TX Antenna Gain / TX Polarity: 42.00 dBi / Horizontal

RX Antenna Gain / RX Polarity: 38.00 dBi / Vertical

Satellite Operating Arc: -111.10

Satellite transmission VIA: ANIK F2

Date Effective: November 11, 2019

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,302.83000 MHz 340KG1WCT 49.00 dBW -49.00 dB(W/Hz)

RX Frequency: RX Emission(s):

4,076.30500 MHz 1M35G1WCT

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000109 002

Location: Old Crow YT

Coordinates: 67N343 139W5044

Ground Height (AMSL)/Antenna Height (AGL): 230.00 m / 9.00 m

Antenna Diameter: 7.60 m

Antenna Azimuth/Elevation Angle: 149.30 deg / 11.02 deg

TX Antenna Gain / TX Polarity: 52.70 dBi / Vertical

RX Antenna Gain / RX Polarity: 48.89 dBi / Horizontal

Satellite Operating Arc: -111.10

Satellite transmission VIA: ANIK E-B

Date Effective: January 14, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,028.56000 MHz 1M80G1D‑‑ 58.10 -57.2 dB(W/Hz)

6,041.84000 MHz 171KG1D‑‑ 44.10 -60.9 dB(W/Hz)

6,068.75000 MHz 2M08G1D‑‑ 59.30 -56.6 dB(W/Hz)

6,248.00000 MHz 833KG1D‑‑ 57.20 -54.7 dB(W/Hz)

6,266.04400 MHz 833KG1D‑‑ 57.20 -54.7 dB(W/Hz)

6,268.04600 MHz 833KG1D‑‑ 57.20 -54.7 dB(W/Hz)

6,290.95000 MHz 1M10G1D‑‑ 55.80 -57.3 dB(W/Hz)

RX Frequency: RX Emission(s):

3,816.60000 MHz 171KG1D--

3,831.00000 MHz 1M67D1D--

4,037.64200 MHz 114KG1D--

4,074.70000 MHz 149KG1D--

4,119.08800 MHz 7M55D1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000111 002

Location: Whitehorse YT

Coordinates: 60N4308 135W3011

Ground Height (AMSL)/Antenna Height (AGL): 638.00 m / 20.00 m

Antenna Diameter: 9.10 m

Antenna Azimuth/Elevation Angle: 153.01 deg / 18.30 deg

TX Antenna Gain / TX Polarity: 53.90 dBi / Vertical

RX Antenna Gain / RX Polarity: 50.59 dBi / Horizontal

Satellite Operating Arc: -110.10

Satellite transmission VIA: ANIK E‑B

Date Effective: January 06, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,032.63500 MHz 42K7G1D‑‑ 48.90 dBW -51.3 dB(W/Hz)

6,040.58900 MHz 128KG1D‑‑ 42.40 dBW -62.6 dB(W/Hz)

6,041.01300 MHz 37K3G1D‑‑ 38.60 dBW -61 dB(W/Hz)

6,041.19100 MHz 128KG1D‑‑ 42.60 dBW -62.4 dB(W/Hz)

6,041.60000 MHz 171KG1D‑‑ 44.00 dBW -62.2 dB(W/Hz)

6,251.53500 MHz 3M75D1D‑‑ 60.20 dBW -59.4 dB(W/Hz)

6,287.11600 MHz 171KG1D‑‑ 43.10 dBW -63.1 dB(W/Hz)

6,299.70000 MHz 5M34D1D‑ 61.40 dBW -59.7 dB(W/Hz)

6,344.08800 MHz 22M5D1D‑‑ 68.80 dBW -58.6 dB(W/Hz)

RX Frequency: RX Emission(s):

3,807.69500 MHz 42K7G1D--

3,815.78200 MHz 37K3G1D--

3,816.06700 MHz 37K3G1D--

3,816.38400 MHz 128KG1D--

3,816.84000 MHz 171KG1D--

4,023.00000 MHz 1M67G1D--

4,041.04400 MHz 1M67G1D--

4,043.04600 MHz 1M67G1D--

4,045.04800 MHz 1M67G1D--

4,047.05000 MHz 1M67G1D--

4,062.35000 MHz 171KG1D--

4,065.95000 MHz 1M10G1D--

4,067.44000 MHz 1M10G1D--

4,068.93000 MHz 1M10G1D--

4,070.42000 MHz 1M10G1D--

4,095.97600 MHz 3M00D1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000113 002

Location: Bob Quinn Lake BC

Coordinates: 56N5852 130W1455

Ground Height (AMSL)/Antenna Height (AGL): 611.00 m

Antenna Diameter: 4.50 m

Antenna Azimuth/Elevation Angle: 157.50 deg / 22.99 deg

TX Antenna Gain / TX Polarity: 45.70 dBi / Vertical

RX Antenna Gain / RX Polarity: 43.10 dBi / Horizontal

Satellite Operating Arc: -110.10

Satellite transmission VIA: ANIK E-B

Date Effective: January 06, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,030.81500 MHz 1M80G1D‑‑ 58.00 dBW -50.3 dB(W/Hz)

6,292.44000 MHz 1M10G1D‑‑ 55.20 dBW -50.9 dB(W/Hz)

RX Frequency: RX Emission(s):

4,037.64200 MHz 114KG1D--

4,074.70000 MHz 149KG1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000107 002

Location: Fort Ware BC

Coordinates: 57N2526 125W3753

Ground Height (AMSL)/Antenna Height (AGL): 765.00 m / 3.30 m

Antenna Diameter: 4.50 m

Antenna Azimuth/Elevation Angle: 162.90 deg / 23.44 deg

TX Antenna Gain / TX Polarity: 45.70 dBi / Vertical

RX Antenna Gain / RX Polarity: 43.10 dBi / Horizontal

Satellite Operating Arc: -111.10

Satellite transmission VIA: ANIK E-B

Date Effective: January 06, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,030.81500 1M80G1D‑ 56.50 dBW -51.8 dB(W/Hz)

6,041.06700 37K3G1D‑‑ 34.50 dBW -56.9 dB(W/Hz)

6,248.00000 833KG1D‑‑ 55.70 dBW -49.2 dB(W/Hz)

6,292.44000 1M10G1D‑‑ 54.40 dBW -51.7 dB(W/Hz)

RX Frequency: RX Emission(s):

3,816.01300 37K3G1D--

4,037.64200 114KG1D--

4,074.70000 149KG1D--

4,119.08800 401KD1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000351 002

Location: Yellowknife, NT

Coordinates: 62N2716 114W2220

Ground Height (AMSL)/Antenna Height (AGL): 176.00 m / 12.00 m

Antenna Diameter: 9.10 m

Antenna Azimuth/Elevation Angle: 176.31 deg / 13.90 deg

TX Antenna Gain / TX Polarity: 53.90 dBi / Vertical

RX Antenna Gain / RX Polarity: 50.59 dBi / Horizontal

Satellite Operating Arc: -110.10

Satellite transmission VIA: ANIK E-B

Date Effective: January 06, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,007.28000 146KG1D‑‑ 46.20 dBW -59.4 dB(W/Hz)

6,008.06350 37K3G1D‑‑ 37.00 dBW -62.6 dB(W/Hz)

6,008.41150 37K3G1D‑‑ 37.00 dBW -62.6 dB(W/Hz)

6,008.52750 37K3G1D‑‑ 37.00 dBW -62.6 dB(W/Hz)

6,032.94100 42K7G1D‑‑ 46.70 dBW -53.5 dB(W/Hz)

6,034.06000 256KG1D‑‑ 44.30 dBW -63.7 dB(W/Hz)

6,042.32500 128KG1D‑‑ 41.50 dBW -63.5 dB(W/Hz)

6,287.35000 171KG1D‑‑ 41.90 dBW -64.3 dB(W/Hz)

6,303.59700 515KD1D‑‑ 51.30 dBW -59.7 dB(W/Hz)

RX Frequency: RX Emission(s):

3,782.48600 146KG1D--

3,783.12150 37K3G1D--

3,783.46950 37K3G1D--

3,783.58550 37K3G1D--

3,807.87500 42K7G1D--

3,808.67600 256KG1D--

3,817.54000 128KG1D--

4,062.11600 171KG1D--

4,081.37000 515KD1D--

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010798354 001

Location: Whitehorse, YT

Coordinates: 60N4318 135W0504

Ground Height (AMSL)/Antenna Height (AGL): 694.00 m / 2.00 m

Antenna Diameter: 7.30 m

Antenna Azimuth/Elevation Angle: 157.15 deg / 33.84 deg

TX Antenna Gain / TX Polarity: 51.90 dBi / Vertical

RX Antenna Gain / RX Polarity: 55.59 dBi / Horizontal

Satellite Operating Arc: -114.90

Satellite transmission VIA: CANSAT‑17

Date Effective: March 30, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

6,375.34000 5M68G2DEN 55.90 dBW -64.26 dB(W/Hz)

RX Frequency: RX Emission(s):

4,154.98600 3M60G2DEN

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010001009 002

Location: Allan Park ON

Coordinates: 44N1025 080W5610

Ground Height (AMSL)/Antenna Height (AGL): 285.00m / 7.00 m

Antenna Diameter: 9.00 m

Antenna Azimuth/Elevation Angle: 219.85 deg / 30.87 deg

TX Antenna Gain / TX Polarity: 53.90 dBi / Horizontal

RX Antenna Gain / RX Polarity: 49.10 dBi / Vertical

Satellite Operating Arc: -111.10 deg

Satellite transmission VIA: CANSAT KA‑4

Date Effective: February 24, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,858.25000 MHz 2M50F7D-- 74.40 dBW -38.5 dB(W/Hz)

6,422.25000 MHz 2M50F7D-- 74.40 dBW -38.5 dB(W/Hz)

RX Frequency: RX Emission(s):

3,701.75000 MHz 2M50M2D—

4,197.75000 MHz 2M50M2D—

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010833161 001

Location: Montcalm, QC

Coordinates: 45N5638 074W3202

Ground Height (AMSL)/Antenna Height (AGL): 210.00m / 12.00 m

Antenna Diameter: 9.00 m

Antenna Azimuth/Elevation Angle: 197.10 deg / 35.72 deg

TX Antenna Gain / TX Polarity: 53.00 dBi / Horizontal

RX Antenna Gain / RX Polarity: 50.00 dBi / Vertical

Satellite Operating Arc: -87.00 deg

Satellite transmission VIA: USASAT‑24T

Date Effective: April 1, 2020

TX Frequency: TX Emission(s): EIRP: Maximum Power Density:

5,965.00000 36M0G1XET 68.30 dBW -50.0 dB(W/Hz)

5,985.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,005.00000 36M0G1XET 68.70 dBW -50.0 dB(W/Hz)

6,025.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,045.00000 36M7G1XET 68.70 dBW -50.0 dB(W/Hz)

6,145.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,205.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,217.50000 21M0G1XET 63.80 dBW -50.0 dB(W/Hz)

6,245.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,285.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,325.00000 36M0G1XET 68.00 dBW -50.0 dB(W/Hz)

6,342.05000 4M30G1XET 57.50 dBW -50.0 dB(W/Hz)

6,385.00000 36M0G1XET 68.60 dBW -50.0 dB(W/Hz)

RX Frequency: RX Emission(s):

4,009.25000 11M1G1XET

4,016.40000 3M20G1XET

4,027.25000 10M5G1XET

4,034.10000 3M20G1XET

4,041.15000 2M10G1XET

4,043.80000 3M20G1XET

4,047.50000 4M20G1XET

4,051.70000 4M20G1XET

4,055.90000 4M20G1XET

4,064.85000 5M70G1XET

4,077.60000 19M7G1XET

4,091.70000 8M40G1XET

4,096.95000 2M10G1XET

4,104.15000 4M30G1XET

4,107.00000 300KG1XET

4,108.00000 300KG1XET

4,112.75000 4M30G1XET

4,117.05000 4M30G1XET

4,124.35000 10M5G1XET

4,131.70000 4M20G1XET

GOVERNMENT OF CANADA REQUESTS COORDINATION WITH USA

SERVICE: SATELLITE EARTH STATION, CLASS OF STATION: FIXED EARTH STATION

SHARED BANDS

License #: 010000919 002

Location: Toronto ON

Coordinates: 43N3909 079W1926

Ground Height (AMSL)/Antenna Height (AGL): 80 m / 5.6.00 m

Antenna Diameter: 7.3 m

Antenna Azimuth/Elevation Angle: 229.93 deg / 26.22 deg

TX Antenna Gain / TX Polarity:

RX Antenna Gain / RX Polarity: 47.8 dBi / Horizontal

Satellite Operating Arc: N/A

Satellite transmission VIA: ANIK E-D

Date Effective: February 24, 2020

RX Frequency: RX Emission(s):

3805.3500 1M50G1D