

NOTICE OF COMPLETION OF C-BAND ESV COORDINATION –

SAN JUAN, PUERTO RICO PORT AREA

MTN License Corp. (“MTN”), pursuant to Section 25.221(a)(12) of the Commission’s rules, 47 C.F.R. 25.221(a)(12), hereby submits notification of the successful completion of frequency coordination of Earth Station on Vessels (“ESV”) operations conducted in the port area of San Juan, Puerto Rico under its C-band ESV network license (Call Sign E050281). In support of this notification, MTN provides the following information as set forth in the Commission’s Public Notice DA 05-1671 (released June 15, 2005):

1. Name and contact information of the frequency coordinator

Ken Ryan, P.E.
Skjei Telecom, Inc.
777 Leesburg Pike, Suite 315N
Falls Church, VA 22043
Telephone: 703-917-4077
Email: www.skjeitelecom.com

2. Reference identification, date, and duration (if relevant) of the coordination report

Coordination Report Number: 151125SKJTEL03
Date: February 3, 2016

3. Frequency coordination method used

Critical contour point method

4. Interference criteria used

Long term: -154.0 dBW/4 kHz 20%
Short term: -131.0 dBW/4 kHz 0.0025%

5. Speed of coordinated vessel, if relevant

8.6 knots

6. Center frequencies, bandwidths, and total spectrum coordinated per satellite

Frequency Range: 6314.7-6344.3 MHz¹

Bandwidths: 1.05 MHz and 3.75 MHz

Total spectrum coordinated: 29.6 MHz

7. Name of satellite(s) and transponder(s) being used

Satellite: NSS7 @ 20° W.L.

Transponders: GAL8/GAR8

Transponder Frequency Range: 6309.0-6363.0 MHz

8. Textual description and scaled map of the geographic area(s) coordinated

The geographic area coordinated is the route depicted in the maps contained in the attached Frequency Coordination and Interference Analysis Report, as well as all of the area seaward of this route within 200 kilometers of the baseline of the United States or 200 kilometers from any fixed service offshore installation.

9. 24/7 contact information for the ESV operator

Telephone: 1-954-538-4074

Email: noc.maritime@emconnected.com

10. Call sign of the hub station if independently licensed

N/A

11. Statement indicating that as of the date of this notification there are no unresolved coordination requests which would result in an exceedance of the maximum 180 megahertz of coordinated spectrum for all ESV operations in the coordination area in Section 25.202(a)(8)

The frequency coordination advises that there are no unresolved coordination requests which would result in an exceedance of the maximum 180 megahertz of coordinated spectrum for all ESV operations in the 5925-6425 MHz band.

¹ MTN notes that the attached Frequency Coordination and Interference Analysis Report also includes the coordination of the 6410.4-6420.5 MHz frequency band. Although these frequencies were coordinated, MTN has no immediate plans to operate within this band and thus does not include it as part of this Notice.

MTN License Corp.

Call Sign E050281

January 27, 2017

MTN respectfully requests that this notification be placed on Public Notice. Questions concerning this matter should be directed to MTN's counsel: David Keir (email address: dkeir@lermansenter.com; telephone: 202-416-6742) and Philip Bonomo (email address: pbonomo@lermansenter.com; telephone: 202-416-6773).

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
MTN license Corp
San Juan, PR
Satellite Earth Station on Vessel (ESV)

Prepared By:
Skjei Telecom, Inc.
7777 Leesburg Pike, Suite 315N
Falls Church, VA 22043
February 3, 2016

Skjei Telecom, Inc.

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Skjei Telecom, Inc.

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. There will be spectrum restrictions due to interference considerations.

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2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. The Critical Contour Point method of determining worst case interference from the route and port sites was the interference method used. 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. In those cases where OH losses did not resolve the interference the ESV will mute transmission within an exclusion zone sufficient in size to preclude interference. Also note, that there are no unresolved coordination requests which would result in an exceedance of the maximum 180 megahertz of coordinated spectrum for all ESV operations in the coordination area in the 5925-6425 MHz band.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit-only earth station. The ESV will employ a GPS sensitive ability to cease transmission when traveling in certain exclusion zones. The interference cases and the location of the critical contour point (CCP), around which the exclusion zones exist are detailed in the tables below.

Company

Sprintcom, Inc. Puerto Rico
Aeronet Wireless Broadband Corp.
AT&T Mobility Puerto Rico
Broadband Telecommunications Network
Critical Hub Networks, Inc.
Neptuno Media
PR Wireless, Inc.
Puerto Rico Commonwealth of State Police
Puerto Rico Telephone Company, Inc.
T-Mobile Puerto Rico LLC

Skjei Telecom, Inc.

Site	San Juan													
Desired Frequencies (MHz)		5950.1992 - 5953.9708	6094.001 - 6112.771	5987 - 6020.96	6314.798 - 6344.248	6401.51 - 6408.415								
Intol Case #	Margin (dB)						Frequencies Affected							
20	35.3			Y			6034.15	0	0	0	0	0	0	0
54	35.1				Y		6256.54	6315.84	0	0	0	0	0	0
169	33.5		Y	Y			6034.15	6123.1	0	0	0	0	0	0
92	28.6				Y		6315.84	0	0	0	0	0	0	0
108	28.5				Y		6315.84	0	0	0	0	0	0	0
10	27.1					Y	6404.79	0	0	0	0	0	0	0
118	26.0			Y			5974.85	0	0	0	0	0	0	0
87	25.8			Y			6034.15	0	0	0	0	0	0	0
126	24.7	Y					5945.2	0	0	0	0	0	0	0
116	24.3			Y			5974.85	6004.5	0	0	0	0	0	0
100	18.8				Y		6345.49	0	0	0	0	0	0	0
56	16.3				Y		6226.89	6286.19	6345.49	0	0	0	0	0
235	13.1	Y					5945.2	0	0	0	0	0	0	0
4	5.5				Y		6256.54	6315.84	6375.14	0	0	0	0	0
75	5.3					Y	6404.79	0	0	0	0	0	0	0
59	4.7				Y		6226.89	6286.19	6345.49	0	0	0	0	0
98	2.4			Y			5974.85	0	0	0	0	0	0	0
55	0.7				Y		6323.253	0	0	0	0	0	0	0
Desired Frequencies (MHz)		5950.1992 - 5953.9708	6094.001 - 6112.771	5987 - 6020.96	6314.798 - 6344.248	6401.51 - 6408.415								
Into2 Case#	Margin (dB)						Frequencies Affected							
144	38.0		Y				6093.45	0	0	0	0	0	0	0
208	37.9		Y				6123.1	0	0	0	0	0	0	0
142	32.2		Y				6093.45	0	0	0	0	0	0	0

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236	31.4		Y				6137.925	0	0	0	0	0	0	0
75	30.3		Y				6123.1	0	0	0	0	0	0	0
130	30.0	Y	Y				5945.2	6093.45	0	0	0	0	0	0
90	29.5		Y				6093.45	6123.1	0	0	0	0	0	0
21	29.3				Y		6315.84	0	0	0	0	0	0	0
218	29.2		Y				6093.45	0	0	0	0	0	0	0
91	29.0					Y	6197.24	6404.79	0	0	0	0	0	0
73	28.7	Y		Y			5945.2	5974.85	0	0	0	0	0	0
128	28.2		Y				6093.45	0	0	0	0	0	0	0
134	28.0		Y	Y			6034.15	6123.1	0	0	0	0	0	0
139	27.7				Y		6315.84	0	0	0	0	0	0	0
149	27.2		Y				6093.45	0	0	0	0	0	0	0
26	26.7	Y					5945.2	0	0	0	0	0	0	0
135	26.3		Y				6004.5	6093.45	0	0	0	0	0	0
205	26.0					Y	6404.79	0	0	0	0	0	0	0
231	25.1		Y				6093.45	0	0	0	0	0	0	0
93	24.9			Y			5974.85	0	0	0	0	0	0	0
191	23.0	Y		Y			5945.2	5974.85	6004.5	6063.8	6152.75	0	0	0
181	22.8				Y		6286.19	6315.84	0	0	0	0	0	0
43	22.2	Y					5945.2	0	0	0	0	0	0	0
206	19.2	Y					5945.2	0	0	0	0	0	0	0
199	15.3	Y	Y	Y			5945.2	5974.85	6004.5	6034.15	6093.45	6152.75	0	0
109	13.7		Y				6123.1	0	0	0	0	0	0	0
40	12.0				Y		6352.903	0	0	0	0	0	0	0
67	11.4			Y			5974.85	0	0	0	0	0	0	0
64	10.3		Y	Y			5974.85	6093.45	0	0	0	0	0	0
100	8.4		Y				6093.45	0	0	0	0	0	0	0
138	8.1			Y			6034.15	0	0	0	0	0	0	0
159	7.8			Y			5974.85	0	0	0	0	0	0	0
150	4.1				Y		6345.49	0	0	0	0	0	0	0
222	2.1					Y	6404.79	0	0	0	0	0	0	0
57	1.0				Y	Y	6197.24	6226.89	6256.54	6286.19	6315.84	6345.49	6375.14	6404.79

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227	0.1				Y		6345.49	0	0	0	0	0	0	0
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Table 1 – ESV Interference Cases

Skjei Telecom, Inc.

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Interference Zones					
Into lCase #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
20	18.55396017	66.08309591	35.3	PR03XC509	Sprintcom, Inc. Puerto Rico
54	18.65096921	66.25829296	35.1	ATALAYA	Puerto Rico Telephone Company, Inc.
169	18.44889646	66.10930916	33.5	RONCADOR	AT&T Mobility Puerto Rico
92	18.76182861	66.58117357	28.6	LA SANTA	Puerto Rico Electric Power Authority
108	18.61450641	66.11470956	28.5	ORCOVIS CR	PR Wireless, Inc.
10	18.6642804	66.31083843	27.1	CERRO PUNTA	PR Wireless, Inc.
118	18.66848578	66.32023666	26.0	PR00106A	T-Mobile Puerto Rico LLC
87	18.76323456	66.44720027	25.8	MONTE DEL ES	Puerto Rico Commonwealth of State Police
126	18.76140371	66.58202262	24.7	PR00261A	T-Mobile Puerto Rico LLC
116	18.76527355	66.57428931	24.3	PR00096A	T-Mobile Puerto Rico LLC
100	18.56394658	65.91645957	18.8	EL GATO	Puerto Rico Electric Power Authority
56	18.56376129	65.91957545	16.3	ARECIBO	Puerto Rico Telephone Company, Inc.
235	18.61924284	66.13333168	13.1	PR00359A	T-Mobile Puerto Rico LLC
4	18.44889646	66.10930916	5.5	ATALAYA	Puerto Rico Telephone Company, Inc.
75	18.44889646	66.10930916	5.3	GUAYAMA	Puerto Rico Telephone Company, Inc.
59	18.79135839	66.61424621	4.7	MONTE ESTADO	Puerto Rico Telephone Company, Inc.
98	18.6156123	66.11905678	2.4	ISABELA PLAN	Puerto Rico Electric Power Authority
55	18.56225765	65.94482659	0.7	CAGUAS	Puerto Rico Telephone Company, Inc.
Case #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
144	18.45830629	66.10610837	38.0	MARQUEZA	Neptuno Media
208	18.45769737	66.10631551	37.9	SABANA LLAN	Puerto Rico Electric Power Authority
142	18.46557838	66.12711157	32.2	MONTE DEL ES	Critical Hub Networks, Inc.
236	18.44889646	66.10930916	31.4	PRT VB	Aeronet Wireless Broadband Corp.
75	18.56394658	65.91645957	30.3	SANTA ISABEL	Puerto Rico Telephone Company, Inc.
130	18.62850063	66.16975529	30.0	PR00118A	T-Mobile Puerto Rico LLC
90	18.67533364	66.329404	29.5	SANTURCER	Puerto Rico Electric Power Authority
21	18.55913892	65.99700874	29.3	176 ISABELLA	Sprintcom, Inc. Puerto Rico

Skjei Telecom, Inc.

218	18.71907621	66.3879952	29.2	PR00420A	T-Mobile Puerto Rico LLC
91	18.65561409	66.27662063	29.0	LA SANTA	Puerto Rico Electric Power Authority
73	18.55460409	66.07242959	28.7	VICTORIA	Puerto Rico Electric Power Authority
128	18.53462343	66.10498888	28.2	PR000117A	T-Mobile Puerto Rico LLC
134	18.44889646	66.10930916	28.0	FAJARDO LOW	PR Wireless, Inc.
139	18.76884621	66.45472816	27.7	FLORIDA	PR Wireless, Inc.
149	18.56200922	65.94899267	27.2	CERCADILLO	AT&T Mobility Puerto Rico
26	18.45080705	66.10865929	26.7	MONTE DE EST	PR Wireless, Inc.
135	18.47293361	66.12806679	26.3	CONQUISTADOR	PR Wireless, Inc.
205	18.61450641	66.11470956	26.0	ORCOVIS CR	PR Wireless, Inc.
231	18.80248541	66.49987381	25.1	MONTE DEL ES	Neptuno Media
93	18.79638065	66.5120886	24.9	UTUADO	Puerto Rico Electric Power Authority
191	18.54874349	66.08900302	23.0	FAJARDO	Broadband Telecommunications Network
181	18.54644321	66.09160756	22.8	VIEQUES BC	AT&T Mobility Puerto Rico
43	18.75884755	66.58713015	22.2	PR03XC504	Sprintcom, Inc. Puerto Rico
206	18.69843284	66.36033736	19.2	PR00203A	T-Mobile Puerto Rico LLC
199	18.55822469	66.01225684	15.3	VIEQUES PILO	Puerto Rico Telephone Company, Inc.
109	18.44889646	66.10930916	13.7	BARCELONETA	Neptuno Media
40	18.44889646	66.10930916	12.0	VIEQUES	Puerto Rico Telephone Company, Inc.
67	18.7524582	66.59989491	11.4	PR61XC268	Sprintcom, Inc. Puerto Rico
64	18.45080705	66.10865929	10.3	SANTA ISABEL	Puerto Rico Telephone Company, Inc.
100	18.44889646	66.10930916	8.4	SANTURCER	Puerto Rico Electric Power Authority
138	18.56394658	65.91645957	8.1	PRTC PINAS	Neptuno Media
159	18.45707123	66.1110089	7.8	SANTA ISABEL	PR Wireless, Inc.
150	18.7524582	66.59989491	4.1	ORCOVIS	AT&T Mobility Puerto Rico
222	18.45807016	66.09600575	2.1	CULEBRA	Aeronet Wireless Broadband Corp.
57	18.44889646	66.10930916	1.0	HATO TEJAS	Puerto Rico Telephone Company, Inc.
227	18.79816185	66.50852492	0.1	PONCE CO	Neptuno Media

Table 2 - ESV CCP Locations
See Interference Analysis for Exclusion Zone Details

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 Telecom, Inc. 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 PCN letter dated 11/25/2015.

ALL AMERICAN CABLE AND RADIO INC
Critical Hub Networks, Inc.
EVERTEC, INC
INTERISLAND TELEPHONE CORPORATION
Iniciativa Tecnologica Centro Oriental
Osnet Wireless Corporation
PREPA Networks, LLC.
Puerto Rico Commonwealth
Puerto Rico Commonwealth of State Police
Puerto Rico Electric Power Authority
Puerto Rico Telephone Company, Inc.
Surge Communications LLC
System Development Integration, LLC
UNIVERSITY OF THE VIRGIN ISLANDS
Virgin Islands Telephone Corporation
AT&T Mobility Puerto Rico
AT&T Mobility Virgin Islands, Inc.
Broadband Telecommunications Network
Choice Communications, LLC (VI)
Neptuno Media
PR Wireless, Inc.
Sprintcom, Inc
Sprintcom, Inc. Puerto Rico
T-Mobile Puerto Rico LLC
Aeronet Wireless Broadband Corp.
Broadband VI, LLC
T-Mobile Puerto Rico 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. The coordination contours include all the area within this route as well as all of the area seaward of this route within 200 km of the baseline of the United States or 200 km from any fixed service offshore installations.”

Date: 11/25/2015
Job Number: 151125SKJTEL03

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code MRNESV
Licensee Name MTN License Corp. - ESV In-Motion Route

Site Information **SAN JUAN, PR**

Venue Name SAN JUAN ESV
Latitude (NAD 83) 18° 27' 43.9" N
Longitude (NAD 83) 66° 6' 36.7" W
Climate Zone B
Rain Zone 1
Ground Elevation (AMSL) 0.0 m / 0.0 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 20° W to 47° West Longitude
Azimuth Range 106.9° to 132.4°
Corresponding Elevation Angles 33.9° / 59.2°
Antenna Centerline (AGL) 15.54 m / 51.0 ft

Antenna Information

Transmit - FCC32

Manufacturer FCC REFERENCE
Model 32-25LOG(THETA)
Gain / Diameter 41.7 dBi / 2.4 m
3-dB / 15-dB Beamwidth 0.66° / 1.55°

Max Available RF Power (dBW/4 kHz) -10.0
(dBW/MHz) 14.0

Maximum EIRP (dBW/4 kHz) 31.7
(dBW/MHz) 55.7
(dBW) 61.4

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz) 1M05G7W - 3M75G7W / 6314.7 - 6344.3
1M05G7W - 3M75G7W / 6410.4 - 6420.5

Max Great Circle Coordination Distance 181.0 km / 112.4 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values**SAN JUAN, PR**

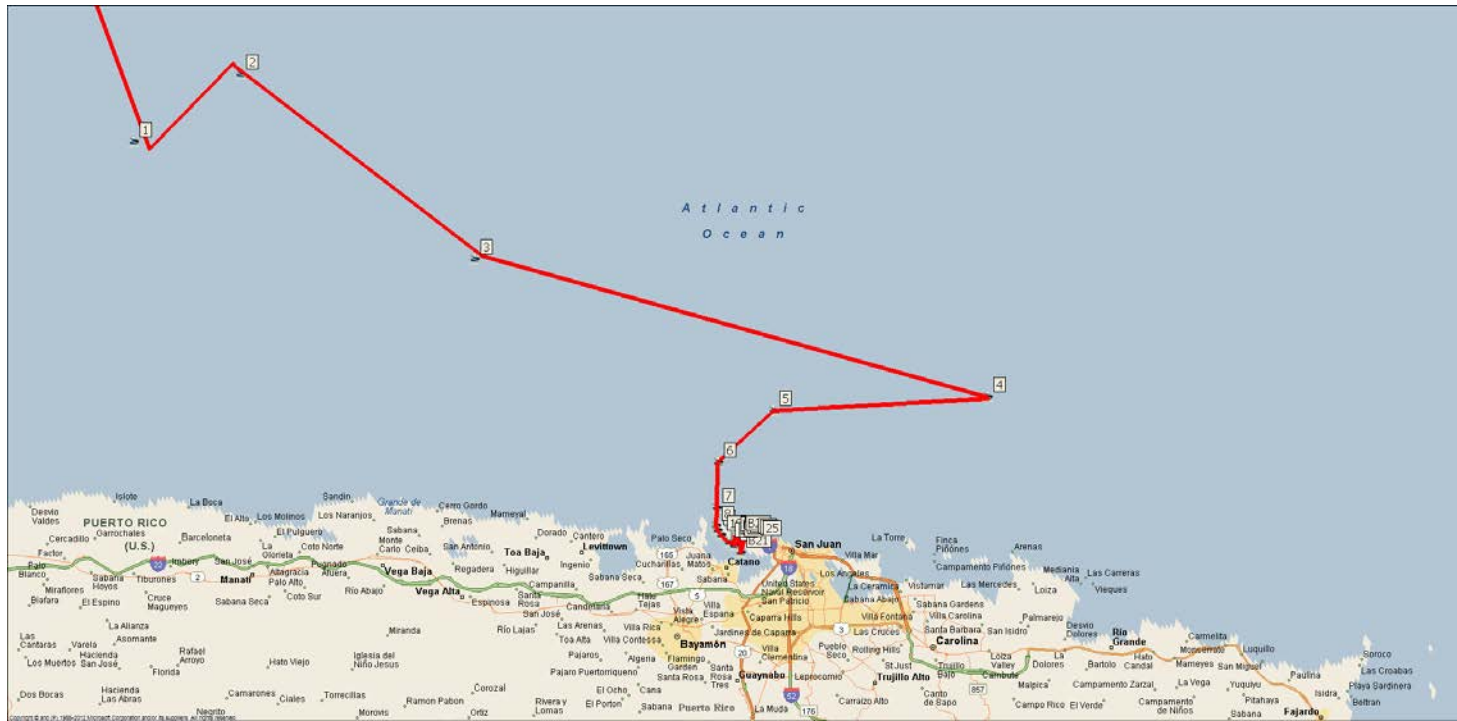
Licensee Name MTN License Corp. - ESV In-Motion Route
Latitude (NAD 83) 18° 27' 43.9" N
Longitude (NAD 83) 66° 6' 36.7" W
Ground Elevation (AMSL) 0.0 m / 0.0 ft
Antenna Centerline (AGL) 15.54 m / 51.0 ft
Antenna Model FCC Reference 32-25LOG(THETA)
Antenna Mode Transmit 6.1 GHz
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%
Max Available RF Power -10.0 (dBW/4 kHz)

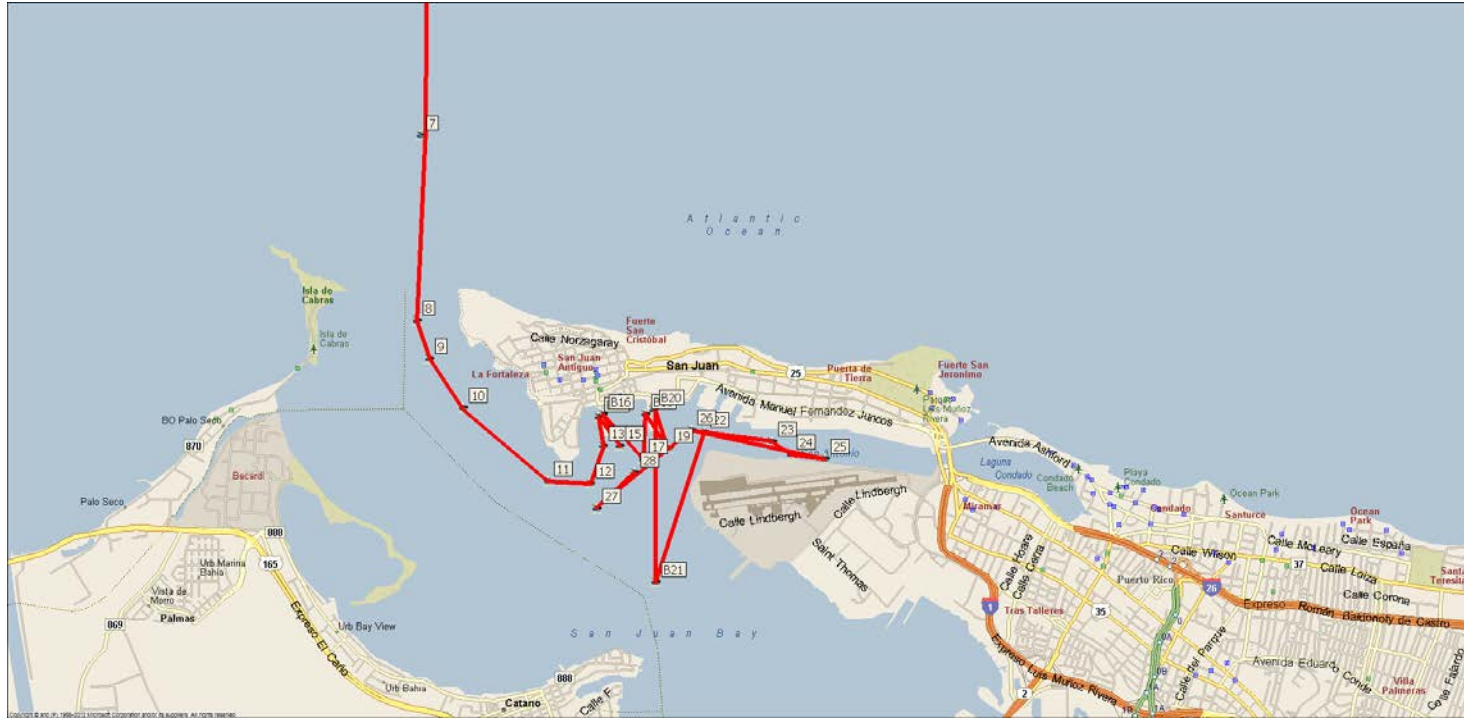
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.06	104.17	-10.00	102.13
5	1.06	100.01	-10.00	102.13
10	1.06	95.83	-10.00	102.14
15	0.75	91.63	-10.00	115.23
20	0.75	87.44	-10.00	115.22
25	0.00	83.32	-10.00	162.88
30	0.00	79.19	-10.00	162.88
35	0.00	75.09	-10.00	162.88
40	0.00	71.03	-10.00	162.88
45	0.00	67.02	-10.00	162.88
50	0.00	63.08	-10.00	162.88
55	0.00	59.23	-10.00	162.88
60	0.00	55.49	-10.00	162.88
65	0.00	51.88	-10.00	162.88
70	0.00	48.45	-10.00	162.88
75	0.00	45.23	-9.39	165.71
80	0.00	42.28	-8.65	169.16
85	0.00	39.66	-7.96	172.51
90	0.00	37.45	-7.34	175.59
95	0.00	35.71	-6.82	178.18
100	0.00	34.53	-6.45	180.04
105	0.00	33.96	-6.27	180.97
110	0.00	34.03	-6.30	180.86
115	0.00	34.74	-6.52	179.70
120	0.00	36.05	-6.92	177.66
125	0.00	37.90	-7.47	174.94
130	0.00	40.21	-8.11	171.78
135	0.00	42.91	-8.81	168.40
140	0.00	45.92	-9.55	164.94
145	0.00	49.19	-10.00	162.88
150	0.00	52.67	-10.00	162.88
155	0.00	56.31	-10.00	162.88
160	0.00	59.99	-10.00	162.88
165	0.00	63.28	-10.00	162.88
170	0.25	65.79	-10.00	156.38
175	0.39	67.60	-10.00	138.14
180	0.41	69.56	-10.00	136.03
185	0.36	71.69	-10.00	141.36

Coordination Values	SAN JUAN, PR
Licensee Name	MTN License Corp. - ESV In-Motion Route
Latitude (NAD 83)	18° 27' 43.9" N
Longitude (NAD 83)	66° 6' 36.7" W
Ground Elevation (AMSL)	0.0 m / 0.0 ft
Antenna Centerline (AGL)	15.54 m / 51.0 ft
Antenna Model	FCC Reference 32-25LOG(THETA)
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-10.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.30	73.94	-10.00	149.64
195	0.30	76.25	-10.00	148.86
200	0.56	78.56	-10.00	123.44
205	0.30	81.11	-10.00	149.82
210	0.52	83.58	-10.00	125.51
215	0.00	86.21	-10.00	162.88
220	0.00	88.76	-10.00	162.88
225	0.00	91.31	-10.00	162.88
230	0.00	93.86	-10.00	162.88
235	0.00	96.39	-10.00	162.88
240	0.00	98.88	-10.00	162.88
245	0.00	101.32	-10.00	162.88
250	0.00	103.69	-10.00	162.88
255	0.00	105.98	-10.00	162.88
260	0.00	108.17	-10.00	162.88
265	0.00	110.25	-10.00	162.88
270	0.00	112.18	-10.00	162.88
275	0.00	113.97	-10.00	162.88
280	0.00	115.58	-10.00	162.88
285	0.00	117.00	-10.00	162.88
290	0.30	118.49	-10.00	149.38
295	0.86	120.01	-10.00	110.39
300	0.83	120.78	-10.00	111.42
305	1.15	121.62	-10.00	100.00
310	1.18	121.91	-10.00	100.00
315	1.38	122.11	-10.00	100.00
320	0.85	121.30	-10.00	110.87
325	0.60	120.53	-10.00	120.89
330	0.36	119.52	-10.00	141.96
335	0.44	118.58	-10.00	132.79
340	0.47	117.37	-10.00	129.59
345	0.00	115.54	-10.00	162.88
350	0.42	112.20	-10.00	135.01
355	0.75	108.23	-10.00	115.22

Name	Latitude	Longitude
N	19.97478	-67.0543
1	18.75333	66.58333
2	18.80333	66.5
3	18.66667	-66.3167
4	18.565	-65.9167
5	18.555	-66.0833
6	18.51667	-66.1267
7	18.48333	-66.128
8	18.4695	-66.1283
9	18.46667	-66.1273
10	18.463	-66.1247
11	18.4575	-66.118
12	18.45733	-66.1147
13	18.46017	-66.1137
B14	18.46233	-66.114
15	18.46017	-66.1123
B16	18.4625	-66.1137
17	18.45917	-66.1105
B18	18.4625	-66.1103
19	18.46	-66.1085
B20	18.46283	-66.1097
B21	18.45	-66.1095
22	18.46117	-66.1057
23	18.4605	-66.1003
24	18.4595	-66.0988
25	18.45917	-66.0962
26	18.46133	-66.1067
27	18.4555	-66.1142
28	18.45817	-66.1112





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.
Principal Engineer
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7777 Leesburg Pike, Suite 315N
Falls Church, VA 22043

DATED: February 3, 2016