NOTICE OF COMPLETITION OF C-BAND ESV COORDINATION – PORT EVERGLADES, FLORIDA 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 Port Everglades, Florida 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

Email: www.skjeitelecom.com

Telephone: 703-917-4077

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

Coordination Report Number: 151125SKJTEL08

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
Port Everglades, FL
Satellite Earth Station on Vessel (ESV)

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

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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. There will be spectrum restrictions 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. 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 were 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

Miami-Dade County Verizon Wireless Personal Comm, LP(S FL) HiQ Data Corporation Computer Office Solutions, Inc.

		ı	1	ı		ı	1	ı	ı			1	1	ı
Site														
		5950.1992	6094.001		6314.798	6401.51								
	Desired		-	5987 -	-	-								
Freque	ncies (MHz)	5953.9708	6112.771	6020.96	6344.248	6408.415								
Into 1														
Case #	Margin(dB)						Frequencies Affected							
91	32.31728		Y				6093.45	0	0	0	0	0	0	0
72	22.54452	Y	Y	Y			5945.2	5974.85	6004.5	6034.15	6063.8	6093.45	6123.1	6152.75
178	20.44452	У	Y	Y			5945.2	5974.85	6004.5	6034.15	6063.8	6093.45	6123.1	6152.75
74	5.598475	У	Y	Y			5945.2	6034.15	6063.8	6093.45	6123.1	6152.75	0	0
168	5.598475	Y	Y	Y			5945.2	6034.15	6063.8	6093.45	6123.1	6152.75	0	0
Notes														
Desired	i	5950.1992 -	6094.001	5987 -	6314.798 -									
	ncies (MHz)	5953.9708	6112.771	6020.96	6344.248									
Into 2														
Case														
#	Margin(dB)						Frequenci	es Affect	ed			1		
183	28.45345					Y	6389.965	0	0	0	0	0	0	0
201	19.4875		Y				6137.925	0	0	0	0	0	0	0
Notes														

Table 1 – ESV Interference Cases

Interference Zones					
Into 1					
Case #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
91	26.09317552	80.10406649	32.3	CAB	Miami-Dade County
72	26.00325931	80.02549327	22.5	ANDY TOWN S	Verizon Wireless Personal Comm, LP(S FL)
178	26.00325931	80.02549327	20.4	ANDY TOWN S	Verizon Wireless Personal Comm, LP(S FL)
74	26.08727429	80.11548993	5.6	KROME TOWER	Verizon Wireless Personal Comm, LP(S FL)
168	26.08727429	80.11548993	5.6	KROME TOWER	Verizon Wireless Personal Comm, LP(S FL)
Case #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
183	26.08420337	80.07433998	28.5	MIDTOWN1	HiQ Data Corporation
201	26.19358091	79.59045556	19.5	MET2	Computer Office Solutions, Inc.

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.

Computer Office Solutions, Inc. GM Consulting Group, Inc. HiQ Data Corporation Miami-Dade County Saint Lucie, County of Verizon Wireless (VAW) LLC-South Florida Verizon Wireless VAW LLC - S Florida Wireless Applications Corporation Embarq Florida, Inc. Florida Power and Light Company Florida RSA No. 2B (Indian River) LP Harris Corporation - Orlando, FL New Cingular Wireless PCS LLC - N FL New Cinqular Wireless PCS LLC - S FL PALM BEACH, COUNTY OF Palm Beach, County Facilities Dev & Ops South Florida Water Management District T-Mobile License LLC Verizon Wireless (VAW) LLC - S Florida Verizon Wireless Personal Comm, LP(S FL) T-Mobile License LLC Florida Rural Broadband Alliance, LLC Olympic Wireless, 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: 151125SKJTEL08

Administrative Information

Status ENGINEER PROPOSAL

Call Sign

Licensee Code MRNESV

Licensee Name MTN License Corp. - ESV In-Motion Route

Site InformationVenue Name

PORT EVERGLA, FL
PORT EVERGLADES ESV

Latitude (NAD 83) 26° 5' 48.1" N Longitude (NAD 83) 80° 7' 12.0" 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 104.2° to 124.0° Corresponding Elevation Angles 18.3° / 42.4° 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 219.2 km / 136.2 mi Precipitation Scatter Contour Radius 100.0 km / 62.1 mi Coordination Values PORT EVERGLA, FL

Licensee Name MTN License Corp. - ESV In-Motion Route

Latitude (NAD 83) 26° 5′ 48.1″ N Longitude (NAD 83) 80° 7′ 12.0″ 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)

			Transm	it 6.1 GHz
	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
0	0.00	103.45	-10.00	162.88
5	0.00	98.72	-10.00	162.88
10	0.00	93.97	-10.00	162.88
15	0.00	89.23	-10.00	162.88
20	0.00	84.48	-10.00	162.88
25	0.00	79.74	-10.00	162.88
30	0.00	75.01	-10.00	162.88
35	0.00	70.29	-10.00	162.88
40	0.00	65.58	-10.00	162.88
45	0.00	60.90	-10.00	162.88
50	0.00	56.26	-10.00	162.88
55	0.00	51.65	-10.00	162.88
60	0.00	47.10	-9.83	163.68
65	0.00	42.63	-8.74	168.74
70	0.00	38.25	-7.57	174.44
75	0.00	34.03	-6.30	180.86
80	0.00	30.01	-4.93	188.04
85	0.00	26.29	-3.49	195.91
90	0.00	23.02	-2.05	204.48
95	0.00	20.43	-0.75	212.11
100	0.00	18.78	0.16	217.60
105	0.00	18.34	0.41	219.16
110	0.00	19.19	-0.08	216.16
115	0.00	21.18	-1.15	209.77
120	0.00	24.02	-2.52	201.82
125	0.00	27.46	-3.97	193.28
130	0.00	31.29	-5.38	185.62
135	0.00	35.36	-6.71	178.72
140	0.00	39.37	-7.88	172.90
145	0.00	43.23	-8.89	168.02
150	0.00	46.88	-9.77	163.91
155	0.00	50.26	-10.00	162.88
160	0.00	53.28	-10.00	162.88
165	0.00	56.11	-10.00	162.88
170	0.00	59.12	-10.00	162.88
175	0.00	62.29	-10.00	162.88
180	0.00	65.60	-10.00	162.88
185	0.00	69.01	-10.00	162.88

Coordination Values PORT EVERGLA, FL

MTN License Corp. - ESV In-Motion Route Licensee Name

26° 5' 48.1" N Latitude (NAD 83) Longitude (NAD 83) 80° 7' 12.0" 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 Short Term -154.0 dBW/4 kHz 20%

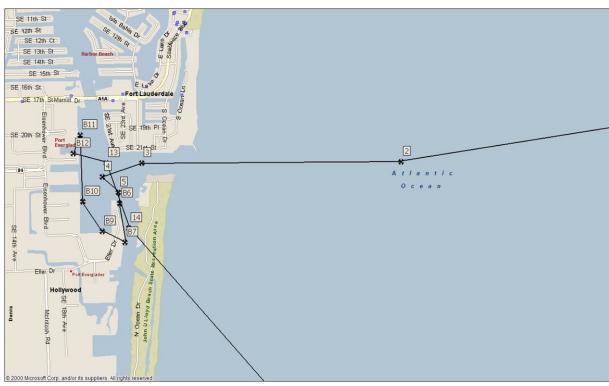
-131.0 dBW/4 kHz 0.0025%

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

			Transm	it 6.1 GHz
	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
190	0.00	72.51	-10.00	162.88
195	0.00	76.09	-10.00	162.88
200	0.00	79.71	-10.00	162.88
205	0.00	83.37	-10.00	162.88
210	0.00	87.05	-10.00	162.88
215	0.00	90.74	-10.00	162.88
220	0.00	94.44	-10.00	162.88
225	0.00	98.11	-10.00	162.88
230	0.00	101.76	-10.00	162.88
235	0.00	105.36	-10.00	162.88
240	0.00	108.91	-10.00	162.88
245	0.00	112.37	-10.00	162.88
250	0.00	115.75	-10.00	162.88
255	0.00	119.00	-10.00	162.88
260	0.00	122.11	-10.00	162.88
265	0.00	125.05	-10.00	162.88
270	0.00	127.78	-10.00	162.88
275	0.00	130.26	-10.00	162.88
280	0.00	132.46	-10.00	162.88
285	0.00	134.32	-10.00	162.88
290	0.00	135.81	-10.00	162.88
295	0.00	136.87	-10.00	162.88
300	0.00	137.49	-10.00	162.88
305	0.00	137.63	-10.00	162.88
310	0.00	137.29	-10.00	162.88
315	0.00	136.50	-10.00	162.88
320	0.00	135.26	-10.00	162.88
325	0.00	133.61	-10.00	162.88
330	0.00	131.43	-10.00	162.88
335	0.00	126.86	-10.00	162.88
340	0.00	122.24	-10.00	162.88
345	0.00	117.58	-10.00	162.88
350	0.00	112.89	-10.00	162.88
355	0.00	108.18	-10.00	162.88

Name	Latitude	Longitude
1	26.225	-79.0883
2	26.09383	-80.0794
3	26.09367	-80.1122
4	26.09217	-80.1172
5	26.0905	-80.1152
В6	26.08933	-80.115
B7	26.08517	-80.1143
B8	26.0895	-80.1163
В9	26.08633	-80.1172
B10	26.0895	-80.1197
B11	26.09667	-80.12
B12	26.09467	-80.1208
13	26.09367	-80.1167
14	26.08667	-80.1138
15	26	-80.0233
16	26.09333	-80.0483
17	26.16667	-80







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 Skjei Telecom, Inc. 7777 Leesburg Pike, Suite 315N Falls Church, VA 22043

DATED: February 3, 2016