NOTICE OF COMPLETITION OF C-BAND ESV COORDINATION – GALVESTON, TEXAS 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 Galveston, Texas 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: 151125SKJTEL05

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: 5950.1-5953.9 MHz¹ Bandwidths: 1.05 MHz and 3.75 MHz Total spectrum coordinated: 3.8 MHz

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

Satellite: IS23 @ 53°W.L. Transponder: WH1C

Transponder Frequency Range: 5929.0-6006.0 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
Galveston, TX
Satellite Earth Station on Vessel (ESV)

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

TABLE OF CONTENTS

1.	CONCLUSIONS	3
2.	SUMMARY OF RESULTS	4
	SUPPLEMENTAL SHOWING	
4.	EARTH STATION COORDINATION DATA	10
	CERTIFICATION	

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

RigNet SatCom, Inc.
American National Insurance Company
FiberLight LLC
Centerpoint Energy Inc
AT&T MOBILITY OF GALVESTON, LLC
New Cingular Wireless PCS LLC - S Texas
Towerstream Corp.
American National Insurance Company
GTE Mobilnet of South Texas LTD Partners
Trunkline Gas Company LLC

	ı	1	1	1	1		1		
Site									
		5950.1992			6314.798	6401.51			
Desired		_	6094.001 -	5987 -	-	_			
Frequenci	es (MHz)	5953.9708	6112.771	6020.96	6344.248	6408.415			
Into 1									
		Summary					Frequenci	es Affect	ed
707	59.57083					Y	6404.79	0	0
328	46.21039			Y			5974.85	6004.5	6063.8
701	35.28741		Y				6137.925	0	0
79	24.30116			Y			6034.15	0	0
589	9.098328			Y			6034.15	0	0
503	7.827932			Y			5974.85	0	0
433	1.626915	Y		Y			5945.2	5974.85	0
Notes									
		5950.1992			6314.798	6401.51			
Desired		_	6094.001 -	5987 -	-	_			
Frequenci	es (MHz)	5953.9708	6112.771	6020.96	6344.248	6408.415			
Into 2									
Case #	Margin(dB)					Frequenci	es Affect	ed
328	34.57292				Y		6226.89	6256.54	6315.84
318	25.52804				Y		6197.24	6345.49	6375.14
641	15.36912	Y					5945.2	0	0
235	11.9964		Y				6123.1	0	0
274	6.725154	Y		Y			5945.2	5974.85	0
454	5.262011		Y				6093.45	0	0
642	3.269116	Y		F0\/ I			5945.2	0	0

Table 1 – ESV Interference Cases

Interference Zones					
Into 1					
Case #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
707	29.32070954	94.78169616	59.57	GALVESTON	RigNet SatCom, Inc.
328	29.31101729	94.7949652	46.21	MOODY PLAZA	American National Insurance Company
701	29.34508981	94.72933302	35.29	IVORY	FiberLight LLC
79	29.3083451	94.79529943	24.30	GALVESTON	Centerpoint Energy Inc
589	29.23995717	94.49570569	9.10	STANDLINO RE	AT&T MOBILITY OF GALVESTON, LLC
503	29.32256408	94.7804824	7.83	DANBURY DUP1	New Cingular Wireless PCS LLC - S Texas
433	29.34072622	94.68885695	1.63	TS-HOU0002	Towerstream Corp.
Into 2 Case #	CCP Latitude (dec.deg)	CCP Longitude (dec.deg.)	Margin (dB)	Victim Rx Site	Licensee
328	29.3113065	94.7945316	34.57	CLEARLAKE	American National Insurance Company
318	29.34078173	94.77071324	25.53	LEAGUE CITY	GTE Mobilnet of South Texas LTD Partners
641	27.95244963	93.70740791	15.37	EC 334B	RigNet SatCom, Inc.
235	28.7531437	93.00836612	12.00	EC 321	RigNet SatCom, Inc.
274	29.31624029	94.78713394	6.73	TIMBERLINE	GTE Mobilnet of South Texas LTD Partners
454	29.30920805	94.7976776	5.26	CYPRESS	Trunkline Gas Company LLC
642	27.95244963	93.70740791	3.27	EC 334B	RigNet SatCom, 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.

Aircanopy Internet Services, Inc.

AT&T MOBILITY OF GALVESTON, LLC

Brazoria, County of

Calcasieu Parish Sheriff's Office

Central Louisiana License Co, LLC

Cequel III Communications I, LLC

Chambers, County of

Cingular Wireless of Texas RSA #11 LP

Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT

Compass Minerals

Conterra Ultra Broadband, LLC

Cox Radio, Inc. (Houston, TX)

Cingular Wireless of Texas RSA #16 LP

Cy-Fair Volunteer Fire Department

Dallas MTA, L.P.

Dobson Cellular Systems LLC - S Texas

Enterprise Products Operating, LLC

ERF Wireless Bundled Services, Inc.

East Texas Electric Cooperative, Inc.

FiberLight LLC

Greater Harris County 911 Emergency Net

Graham Media Group, Houston, Inc.

GTE Mobilnet of Texas RSA #17 LTD Prtnsh

GTE Mobilnet of South TX Ltd Prtnrshp

Harris County ITC

Houston County Electric Cooperative

JD Bank

KN Telecommunications, Inc.

Lake Charles Harbor Police

New Cingular Wireless PCS LLC - N Texas

New Cingular Wireless PCS LLC - S Texas

NETWORK USA

New Cingular Wireless PCS, LLC - LA, GM

Northeast Texas Consortium(NETnet)

T-Mobile License LLC

Acadiana Cellular General Partnership

Central Telephone Company of Texas

GTE Mobilnet of South Texas LTD Partners

Lafayette MSA Limited Partnership

STAR TELEPHONE COMPANY

Phillips 66 Communications Inc

Pooley, Allen L

RigNet SatCom, Inc.

ConocoPhillips Communications Inc.

Louisiana Dept of Transportation and Dev

Lower Colorado River Authority

Entergy Services Inc

Centerpoint Energy Inc

Texas Eastern Communications, LLC

Trunkline Gas Company LLC

Union Pacific Railroad Company

Bluebonnet Electric Cooperative

Cleco Power LLC

City of Houston

American Electric Power Service Co

American National Insurance Company

LOOP LLC

Equistar Chemicals, LP

Austin Energy

Sam Houston Electric Cooperative Inc.

SAN BERNARD ELECTRIC COOPERATIVE INC

South Texas Electric Cooperative

Transcontinental Gas Pipeline Corp.

Guadalupe Valley Electric Coop

JASPER NEWTON ELECTRIC COOPERATIVE

DELTA MEDIA CORPORATION

San Antonio MTA, L.P. - Central Texas

SAN ANTONIO MTA, L.P. DESERT MTN RGN

San Antonio MTA, L.P. (HGC Mkt)

Beauregard Electric Cooperative Inc

Stratos Offshore Services Company

Southern Light, LLC

TEX-LA Electric Cooperative of Texas Inc

Texas New Mexico Power Company

TISD, Inc.

Towerstream Corp.

TX-10 Licensee Co., LLC

Verizon Wireless (VAW) LLC-C TX/LA/AR

Verizon Wireless (VAW) / LA Verizon Wireless Personal Comm LP-LA/MS Verizon Wireless (VAW) LLC - Texas Verizon Wireless VAW LLC-TX/Houston GC

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."

ate: 11/25/2015

Job Number: 151125SKJTEL05

Administrative Information

Status ENGINEER PROPOSAL

Call Sign

Licensee Code MRNESV

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

Site InformationGALVESTON, TXVenue NameGALVESTON ESVLatitude (NAD 83)29° 18' 59.4" NLongitude (NAD 83)94° 47' 0.2" W

Climate Zone B Rain Zone 2

Ground Elevation (AMSL) 0.0 m / 0.0 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only

Modulation Digital

Satellite Arc 47° W to 53° West Longitude

Azimuth Range 114.0° to 118.7° Corresponding Elevation Angles 28.2° / 33.3° 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 / 5950.1 - 5953.9

1M05G7W - 3M75G7W / 6410.4 - 6420.5

Max Great Circle Coordination Distance 191.6 km / 119.1 mi

Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values GALVESTON, TX

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

Latitude (NAD 83) 29° 18′ 59.4″ N Longitude (NAD 83) 94° 47′ 0.2″ W Ground Elevation (AMSL) 0.0 m / 0.0 ft Antenna Centerline (AGL) 15.54 m / 51.0 ft

180

185

0.00

0.00

66.32

70.35

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)

			Transmit 6.1 GHz		
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
0	0.00	110.96	-10.00	162.88	
5	0.00	106.63	-10.00	162.88	
10	0.00	102.27	-10.00	162.88	
15	0.00	97.88	-10.00	162.88	
20	0.00	93.48	-10.00	162.88	
25	0.00	89.08	-10.00	162.88	
30	0.00	84.67	-10.00	162.88	
35	0.00	80.28	-10.00	162.88	
40	0.00	75.90	-10.00	162.88	
45	0.00	71.55	-10.00	162.88	
50	0.00	67.24	-10.00	162.88	
55	0.00	62.97	-10.00	162.88	
60	0.00	58.76	-10.00	162.88	
65	0.00	54.64	-10.00	162.88	
70	0.00	50.62	-10.00	162.88	
75	0.00	46.74	-9.74	164.06	
80	0.00	43.03	-8.84	168.25	
85	0.00	39.55	-7.93	172.67	
90	0.00	36.36	-7.01	177.20	
95	0.00	33.54	-6.14	181.66	
100	0.00	31.21	-5.36	185.75	
105	0.00	29.48	-4.74	189.07	
110	0.00	28.46	-4.36	191.15	
115	0.00	28.22	-4.27	191.64	
120	0.00	28.80	-4.48	190.45	
125	0.00	30.13	-4.97	187.80	
130	0.00	32.12	-5.67	184.11	
135	0.00	34.67	-6.50	179.82	
140	0.00	37.65	-7.39	175.30	
145	0.00	40.97	-8.31	170.80	
150	0.00	44.38	-9.18	166.67	
155	0.00	47.63	-9.95	163.12	
160	0.00	51.08	-10.00	162.88	
165	0.00	54.71	-10.00	162.88	
170	0.00	58.47	-10.00	162.88	
175	0.00	62.35	-10.00	162.88	
400					

-10.00

-10.00

162.88

162.88

Coordination Values GALVESTON, TX

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

 Latitude (NAD 83)
 29° 18' 59.4" N

 Longitude (NAD 83)
 94° 47' 0.2" 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%

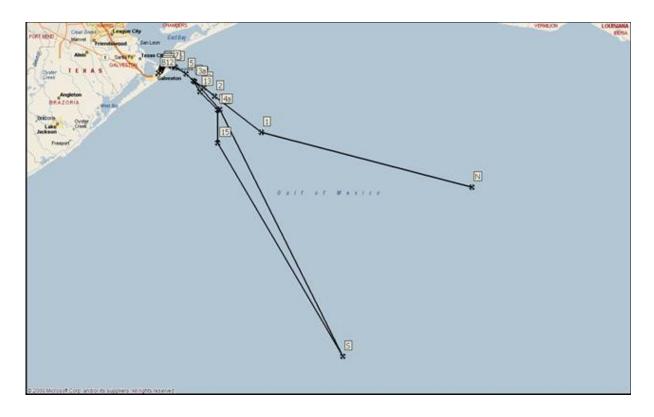
Short Term -131.0 dBW/4 kHz 0.0025%

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

Transmi	it 6.1	GHz
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			rransm	III 6.1 GHZ
	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
190	0.00	74.44	-10.00	162.88
195	0.00	78.56	-10.00	162.88
200	0.00	82.72	-10.00	162.88
205	0.00	86.89	-10.00	162.88
210	0.00	91.07	-10.00	162.88
215	0.00	95.24	-10.00	162.88
220	0.00	99.41	-10.00	162.88
225	0.00	103.55	-10.00	162.88
230	0.00	107.66	-10.00	162.88
235	0.00	111.72	-10.00	162.88
240	0.00	115.72	-10.00	162.88
245	0.00	119.64	-10.00	162.88
250	0.00	123.47	-10.00	162.88
255	0.00	127.16	-10.00	162.88
260	0.00	130.70	-10.00	162.88
265	0.00	134.05	-10.00	162.88
270	0.00	137.14	-10.00	162.88
275	0.00	139.93	-10.00	162.88
280	0.00	142.34	-10.00	162.88
285	0.00	144.29	-10.00	162.88
290	0.00	145.71	-10.00	162.88
295	0.00	146.52	-10.00	162.88
300	0.00	146.69	-10.00	162.88
305	0.00	146.19	-10.00	162.88
310	0.00	145.06	-10.00	162.88
315	0.00	143.36	-10.00	162.88
320	0.00	141.16	-10.00	162.88
325	0.00	138.55	-10.00	162.88
330	0.00	135.44	-10.00	162.88
335	0.00	131.65	-10.00	162.88
340	0.00	127.71	-10.00	162.88
345	0.00	123.64	-10.00	162.88
350	0.00	119.49	-10.00	162.88
355	0.00	115.25	-10.00	162.88

	1 44 1	
Name	Latitude	Longitude
N	28.70719	-92.8033
1	29	-94.1383
2	29.18667	-94.4367
3	29.23333	-94.5067
3a	29.26469	-94.5653
4a	29.11775	-94.4037
S	27.8217	-93.6225
4	29.26833	-94.5733
5	29.30417	-94.62
6	29.3405	-94.6885
7	29.34567	-94.7153
8	29.3425	-94.7688
9	29.33467	-94.775
10	29.32633	-94.7775
11	29.319	-94.7823
B12	29.309	-94.7973
13	29.21167	-94.53
14	29.115	-94.4167
15	28.94333	-94.4167







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