

**FREQUENCY COORDINATION AND INTERFERENCE
ANALYSIS REPORT**

**Prepared for
MARITIME TELECOMMUNICATIONS NETWORK
New Orleans 2, LA
Temporary Fixed ESV Station**

Prepared by:
PINNACLE TELECOM GROUP
14 RIDGEDALE AVENUE
CEDAR KNOLLS, NJ 07927-1106

October 11, 2005

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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 microwave environment.

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 exceed the interference objective on a line-of-sight bases, 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.

No carriers reported potential interference.

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 Pinnacle Telecom Group using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Expedited coordination data for this earth station was e-mailed or mailed to the below listed carriers or their coordination agents with a letter dated October 4, 2005.

ACADIANA CELLULAR GENERAL PART. - (BMI)
ALLTEL COMMUNICATIONS, INC.
ALLTEL KANSAS LIMITED PARTNERSHIP
ALLTEL MOBILE OF LOUISIANA, LLC
AT&T COMM. OF THE SOUTH CENTRAL STATES
BELL ATLANTIC MOBILE SYS OF ALLENTOWN
BELLSOUTH TELECOMMUNICATIONS, INC.
CELLULAR SOUTH LICENSES, INC.
CELUTEL OF BILOXI, INC.
CENTENNIAL SOUTHEAST LICENSE COMPANY LLC
CENTURYTEL OF ALABAMA, LLC
CLECO POWER LLC
COMSEARCH
ENTERGY SERVICES INC
EXXON COMMUNICATIONS COMPANY
GREATER LAFOURCHE PORT COMMISSION
HANCOCK, COUNTY OF

IWL COMMUNICATIONS, INC.
LAFAYETTE MSA LIMITED PARTNERSHIP - (BMI)
LAFOURCHE TELEPHONE COMPANY
LOUISIANA RSA #7 CELLULAR GP
LOUISIANA STATE COMMUNICATION SECTION
MCI WORLDCOM NETWORK SERVICES, INC.
MICRONET COMMUNICATIONS, INC
MISSISSIPPI AUTHORITY FOR ED
NEW CINGULAR WIRELESS PCS, LLC - LA
NEW ORLEANS EDUCATIONAL TELECOMM
PATHNET, INC. - DEBTOR IN POSSESSION
RADIO DYNAMICS CORPORATION
SOLA COMMUNICATIONS, INC.
SPRINT SPECTRUM LP LOUISIANA
STAR TELEPHONE COMPANY
STRATOS OFFSHORE SERVICES COMPANY
VERIZON WIRELESS PERSONAL COMM., LP

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station, which was circulated, to all microwave carriers within its coordination contours.



Pinnacle Telecom Group, LLC

Consulting and Engineering Services

www.pinnacletelecomgroup.com

October 4, 2005

**Expedited Response
Emergency Coordination Request
Temporary Fixed ESV Notification**

Re: Prior Coordination Request
Maritime Telecommunications Network

New Orleans 2, LA
C-Band Transmit / Receive Earth Station

PCN No. 1005-0735

Dear Frequency Coordinator:

On behalf of our client, Maritime Telecommunications Network and in accordance with Section 25.203 (c) of the FCC's Rules and Regulations, we are submitting herewith emergency frequency coordination notification for the above referenced facility.

The data consists of a new temporary fixed transmit / receive ESV facility located on a cruise ship in New Orleans, LA. Please note the cruise ship will be permanently berthed at the dock for at least a 6 month period. There will be no in-motion operation for the duration of the authorization.

Our radio frequency interference analysis indicates satisfactory frequency coordination between the respective radio systems. However, should your study indicate a potential problem, we would like to have the opportunity to discuss it with you as soon as possible.

Your response to this request on or before **October 11, 2005** would be appreciated. In your response, please refer to our **PCN No. 1005-0735**.

If you have any questions, please give me a call on 973-451-1630, ext. 103.

Regards,

Tom Detrick

Attachment

Pinnacle Telecom Group, LLC
14 Ridgedale Ave, Suite 262, Cedar Knolls, NJ 07927
(973)451-1630

TEMPORARY FIXED ESV COORDINATION DATA

Expedited PCN No. 1005-0735	Date: 10/04/2005
APPLICANT / LICENSEE:	MTN
EARTH STATION NAME, STATE:	NEW ORLEANS 2, LA
FCC STATION CALL SIGN:	(New)
LOCATION	NEW ORLEANS, LA
LATITUDE (DMS) (NAD83):	29-56-33.5 N
LONGITUDE (DMS) (NAD83):	90-03-39.3 W
GROUND ELEVATION (feet / meters AMSL):	0.0
ANTENNA CENTERLINE (feet / meters AGL):	80.0 ft / 24.38 m
TRANSMIT ANTENNA TYPE:	Sea Tel Inc. 9797-11
DIAMETER (meters)	2.4 meters
MAXIMUM GAIN (dBi):	41.7 6.1 GHz / 38.5 3.9 GHz
3 dB BEAMWIDTH (degrees):	1.3° 6.1 GHz / 2.1° 3.9 GHz
15 dB BEAMWIDTH (degrees):	2.5° 6.1 GHz / 3.5° 3.9 GHz
REFERENCE PATTERN:	FCC Reference: 32 - 25 log θ
OPERATING MODE:	Transmit / Receive
FREQUENCY RANGE (MHz):	6361.0-6389.0 4117.0-4153.0
MODULATION:	1M40G7W
MAXIMUM AVAILABLE RF POWER	
dBW/4kHz:	-10.2
dBW/1MHz:	13.8
MAXIMUM EIRP	
dBW/4kHz:	31.5
dBW/1MHz:	55.5
MAX. PERMISSIBLE INTERFERENCE POWER	
6 GHz, 20% (dBW/4kHz):	-154.0
6 GHz, 0.0025% (dBW/4kHz):	-131.0
3.9 GHz, 20% (dBW/4kHz):	-156.0
3.9 GHz, 0.0025% (dBW/4kHz):	-146.0
GEOSTATIONARY SATELLITE ARC RANGE:	50.0 / 120.0
EARTH STATION AZIMUTH RANGE:	120.7° to 229.1 °
CORRESPONDING ELEVATION ANGLES:	34.4° / 42.2°
RADIO CLIMATE:	B
RAIN ZONE:	1
3.9 GHz GREAT CIRCLE COORDINATION DISTANCE:	717.7 km / 445.9 mi
6 GHz GREAT CIRCLE COORDINATION DISTANCE:	271.0 km / 168.4 mi
3.9 GHz PRECIPITATION SCATTER CONTOUR:	648.6 km / 403.0 mi
6 GHz PRECIPITATION SCATTER CONTOUR:	100.0 km / 62.1 mi

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 (973)451-1630

Expedited PCN No. 1005-0735

Dated: 10/04/2005

Coordination Values	NEW ORLEANS 2, LA				
Licensee Name	MTN, INC.				
Latitude (NAD 83)	29° 56' 33.5" N				
Longitude (NAD 83)	90° 3' 39.3" W				
Ground Elevation (AMSL)	0.0 m / 0.0 ft				
Antenna Centerline (AGL)	24.38 m / 80.0 ft				
Antenna Model	FCC Reference 32-25LOG(THETA)				
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%	
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	-10.2 (dBW/4 kHz)				

Azimuth (°) (km)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance
0	0.00	100.15	-10.00	412.20	-10.00	161.97
5	0.00	95.21	-10.00	412.20	-10.00	161.97
10	0.00	90.26	-10.00	412.20	-10.00	161.97
15	0.00	85.32	-10.00	412.20	-10.00	161.97
20	0.00	80.38	-10.00	412.20	-10.00	161.97
25	0.00	75.43	-10.00	412.20	-10.00	161.97
30	0.00	70.50	-10.00	412.20	-10.00	161.97
35	0.00	65.56	-10.00	412.20	-10.00	161.97
40	0.00	60.63	-10.00	412.20	-10.00	161.97
45	0.00	55.71	-10.00	412.20	-10.00	161.97
50	0.00	50.80	-10.00	412.20	-10.00	161.97
55	0.00	45.90	-9.54	417.88	-9.54	164.05
60	0.00	41.02	-8.32	433.54	-8.32	169.78
65	0.00	36.16	-6.96	451.79	-6.96	176.48
70	0.00	31.35	-5.41	472.78	-5.41	184.45
75	0.00	26.59	-3.62	498.98	-3.62	194.10
80	0.00	21.94	-1.53	531.44	-1.53	206.36
85	0.00	17.46	0.95	572.47	0.95	221.19
90	0.00	13.35	3.86	624.29	3.86	239.66
95	0.00	10.06	6.93	682.65	6.93	258.71
100	0.00	8.59	8.65	717.66	8.65	271.03
105	0.00	9.80	7.22	688.47	7.22	260.74
110	0.00	12.95	4.19	629.79	4.19	241.83
115	0.00	17.00	1.24	577.55	1.24	223.01
120	0.00	21.16	-1.14	537.77	-1.14	208.66
125	0.00	25.25	-3.06	507.51	-3.06	197.61
130	0.00	29.26	-4.66	483.57	-4.66	188.43
135	0.00	33.17	-6.02	464.76	-6.02	181.26
140	0.00	36.93	-7.18	448.70	-7.18	175.35
145	0.00	40.52	-8.19	435.29	-8.19	170.42
150	0.00	43.88	-9.06	424.08	-9.06	166.31
155	0.00	46.96	-9.79	414.78	-9.79	162.92
160	0.00	49.67	-10.00	412.20	-10.00	161.97
165	0.00	51.93	-10.00	412.20	-10.00	161.97
170	0.00	53.65	-10.00	412.20	-10.00	161.97
175	0.00	54.73	-10.00	412.20	-10.00	161.97
180	0.00	55.09	-10.00	412.20	-10.00	161.97
185	0.00	54.73	-10.00	412.20	-10.00	161.97

Pinnacle Telecom Group, LLC

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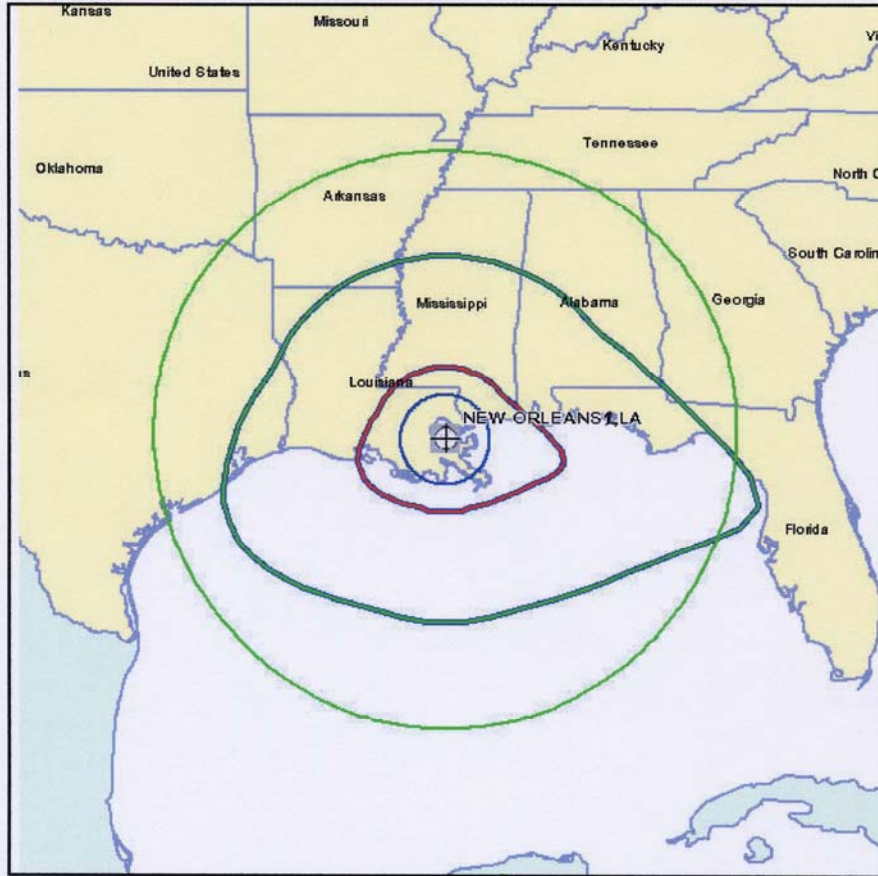
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Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
Max Available RF Power			-10.2 (dBW/4 kHz)

Azimuth (°) (km)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance
190	0.00	53.65	-10.00	412.20	-10.00	161.97
195	0.00	51.93	-10.00	412.20	-10.00	161.97
200	0.00	49.67	-10.00	412.20	-10.00	161.97
205	0.00	46.96	-9.79	414.78	-9.79	162.91
210	0.00	43.88	-9.06	424.08	-9.06	166.31
215	0.00	40.52	-8.19	435.29	-8.19	170.42
220	0.00	36.93	-7.18	448.69	-7.18	175.34
225	0.00	33.34	-6.07	463.98	-6.07	180.98
230	0.00	30.09	-4.96	479.17	-4.96	186.80
235	0.00	27.33	-3.91	494.55	-3.91	192.47
240	0.00	25.20	-3.04	507.86	-3.04	197.74
245	0.00	23.89	-2.45	516.86	-2.45	201.04
250	0.00	23.52	-2.29	519.48	-2.29	202.00
255	0.00	24.14	-2.57	515.04	-2.57	200.37
260	0.00	25.69	-3.24	504.68	-3.24	196.57
265	0.00	28.00	-4.18	490.63	-4.18	191.02
270	0.00	30.90	-5.25	475.00	-5.25	185.27
275	0.00	34.25	-6.37	459.89	-6.37	179.47
280	0.00	37.92	-7.47	444.81	-7.47	173.92
285	0.00	41.83	-8.54	430.75	-8.54	168.76
290	0.00	45.92	-9.55	417.82	-9.55	164.02
295	0.00	50.14	-10.00	412.20	-10.00	161.97
300	0.00	54.46	-10.00	412.20	-10.00	161.97
305	0.00	58.85	-10.00	412.20	-10.00	161.97
310	0.00	63.30	-10.00	412.20	-10.00	161.97
315	0.00	67.79	-10.00	412.20	-10.00	161.97
320	0.00	72.32	-10.00	412.20	-10.00	161.97
325	0.00	76.87	-10.00	412.20	-10.00	161.97
330	0.00	81.44	-10.00	412.20	-10.00	161.97
335	0.00	86.02	-10.00	412.20	-10.00	161.97
340	0.00	90.60	-10.00	412.20	-10.00	161.97
345	0.00	95.19	-10.00	412.20	-10.00	161.97
350	0.00	99.76	-10.00	412.20	-10.00	161.97
355	0.00	104.33	-10.00	412.20	-10.00	161.97

5. GREAT CIRCLE CONTOUR


MTN, INC.




Legend:


Scale: 1:12,000,000

Great Circle: 6.1 GHz 

4.0 GHz 

Precipitation Scatter: 6.1 GHz 

4.0 GHz 

Earth Station Site: 

PINNACLE TELECOM GROUP LLC
14 RIDGEDALE AVENUE, SUITE 262
CEDAR KNOLLS, NJ 07927

6. 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 Part 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: 

Thomas Detrick
Director
Pinnacle Telecom Group
14 Ridgedale Avenue
Cedar Knolls, NJ 07927-1106

Dated: October 11, 2005