



January 14, 2011

Re: FLORIDA STATE UNIVERSITY
TALLAHASSEE, FL (4.5 meter)
C-Band Transmit-Receive Earth Station
Job Number: 110114COMSGE02

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached coordination data on behalf of FLORIDA STATE UNIVERSITY, 1600 RED BARBER PLAZA TALLAHASSEE, FL 32310 for a C-Band Transmit-Receive Earth Station to be located in TALLAHASSEE, FL.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by February 18, 2011.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date: 01/14/2011
 Job Number: <PCNJobCode>

Administrative Information

Status ENGINEER PROPOSAL
 Call Sign <PCNCallSign>
 Licensee Code BORFSU
 Licensee Name FLORIDA STATE UNIVERSITY

Site Information TALLAHASSEE, FL

Venue Name
 Latitude (NAD 83) 30° 25' 4.8" N
 Longitude (NAD 83) 84° 18' 45.3" W
 Climate Zone A
 Rain Zone 1
 Ground Elevation (AMSL) 19.29 m / 63.3 ft

Link Information

Satellite Type Geostationary
 Mode TR - Transmit-Receive
 Modulation Digital
 Satellite Arc 90° W to 135° West Longitude
 Azimuth Range 191.1° to 247.5°
 Corresponding Elevation Angles 54.0° / 25.3°
 Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Information

	Receive - A4045T	Transmit - A6045T
Manufacturer	ANDREW CORPORATION	ANDREW CORPORATION
Model	ESA45T-T	ESA45T-T
Gain / Diameter	43.9 dBi / 4.5 m	46.2 dBi / 4.5 m
3-dB / 15-dB Beamwidth	1.20° / 2.40°	0.94° / 1.90°

Max Available RF Power	(dBW/4 kHz)	-6.5
	(dBW/MHz)	17.5
Maximum EIRP	(dBW/4 kHz)	39.7
	(dBW/MHz)	63.7

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%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	307KG7W - 10M3G7W / 3700.0 - 4200.0	307KG7W - 10M3G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance	311.3 km / 193.4 mi	155.5 km / 96.6 mi
Precipitation Scatter Contour Radius	568.3 km / 353.1 mi	100.0 km / 62.1 mi

Coordination Values		TALLAHASSEE, FL			
Licensee Name		FLORIDA STATE UNIVERSITY			
Latitude (NAD 83)		30° 25' 4.8" N			
Longitude (NAD 83)		84° 18' 45.3" W			
Ground Elevation (AMSL)		19.29 m / 63.3 ft			
Antenna Centerline (AGL)		3.66 m / 12.0 ft			
Antenna Model		ANDREW CORPORATION ESA45T-T			
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		-6.5 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.84	110.41	-10.35	227.52	-15.05	100.00
5	0.80	114.87	-13.02	216.05	-17.72	100.00
10	0.81	119.30	-14.82	207.21	-22.10	100.00
15	0.86	123.69	-15.84	202.57	-22.80	100.00
20	0.91	126.39	-16.38	197.97	-22.80	100.00
25	1.12	125.86	-16.27	190.27	-22.80	100.00
30	1.32	125.00	-16.10	185.15	-22.80	100.00
35	1.45	123.77	-15.85	182.47	-22.80	100.00
40	1.56	122.26	-15.55	180.61	-22.80	100.00
45	1.64	120.46	-15.19	179.99	-22.80	100.00
50	1.66	118.40	-14.46	182.67	-21.20	100.00
55	1.50	116.03	-13.51	191.87	-18.83	100.00
60	1.44	113.56	-12.24	199.59	-16.94	100.00
65	1.16	110.86	-10.61	212.44	-15.31	100.00
70	0.98	108.11	-8.59	228.90	-12.91	100.00
75	0.91	105.33	-6.37	245.14	-10.13	109.89
80	0.92	102.50	-6.10	246.19	-9.80	110.44
85	0.70	99.55	-6.10	260.15	-9.80	120.36
90	0.71	96.62	-6.10	259.57	-9.80	119.95
95	0.74	93.66	-6.10	257.59	-9.80	118.56
100	0.67	90.67	-6.10	262.41	-9.80	121.94
105	0.45	87.70	-6.10	279.39	-9.80	133.52
110	0.36	84.75	-6.10	290.24	-9.80	139.71
115	0.31	81.84	-6.10	297.11	-9.80	144.67
120	0.00	79.04	-6.10	311.30	-9.80	155.47
125	0.00	76.24	-6.10	311.30	-9.80	155.47
130	0.00	73.51	-6.10	311.30	-9.80	155.47
135	0.00	70.88	-6.10	311.30	-9.80	155.47
140	0.00	68.36	-6.10	311.30	-9.80	155.47
145	0.00	65.96	-6.10	311.30	-9.80	155.47
150	0.32	63.51	-6.10	295.94	-9.80	143.82
155	0.30	61.44	-8.30	283.35	-9.80	145.33
160	0.00	59.80	-10.10	284.64	-10.26	153.86
165	0.00	58.15	-10.10	284.64	-11.52	149.53
170	0.00	56.76	-10.10	284.64	-12.15	147.43
175	0.00	55.63	-10.10	284.64	-11.93	148.17
180	0.00	54.79	-10.10	284.64	-11.71	148.88
185	0.00	54.19	-10.10	284.64	-11.48	149.67

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Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
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Max Available RF Power		-6.5 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)		
190	0.00	53.13	-10.10	284.64	-11.05		151.10
195	0.20	51.28	-10.10	284.21	-10.31		153.32
200	0.00	49.22	-9.94	285.64	-9.80		155.47
205	0.00	46.54	-9.41	289.07	-9.80		155.47
210	0.00	43.50	-8.80	293.03	-9.80		155.47
215	0.46	39.89	-8.06	266.56	-9.80		133.34
220	0.72	36.19	-6.58	256.19	-9.80		119.66
225	0.78	32.76	-5.65	258.05	-7.56		123.44
230	0.94	29.63	-5.03	251.76	-4.73		124.62
235	1.12	26.99	-4.50	246.86	-4.20		120.40
240	1.51	24.83	-4.03	236.40	-3.73		111.92
245	1.51	23.87	-3.65	238.71	-3.35		113.11
250	1.93	23.46	-3.48	226.34	-3.18		103.25
255	2.20	24.19	-3.78	217.65	-3.48		100.00
260	2.90	25.47	-4.19	202.67	-3.89		100.00
265	2.90	28.12	-4.72	200.08	-4.42		100.00
270	2.90	31.32	-5.36	196.94	-6.12		100.00
275	3.75	34.40	-5.98	175.36	-9.20		100.00
280	3.75	38.33	-7.43	165.89	-9.80		100.00
285	3.75	42.45	-8.12	162.29	-9.80		100.00
290	4.35	46.49	-6.10	161.17	-9.80		100.00
295	4.35	50.88	-6.10	161.18	-9.80		100.00
300	3.63	55.55	-6.10	177.39	-9.80		100.00
305	3.63	60.05	-6.10	177.40	-9.80		100.00
310	3.63	64.60	-6.10	177.41	-9.80		100.00
315	2.57	69.34	-6.10	200.29	-9.80		100.00
320	2.25	73.95	-6.10	204.81	-9.80		100.00
325	2.25	78.53	-6.10	204.82	-9.80		100.00
330	1.80	83.14	-6.10	215.81	-9.80		100.00
335	1.80	87.73	-6.10	215.81	-9.80		100.00
340	1.03	92.30	-6.10	240.42	-9.80		106.16
345	0.61	96.83	-6.10	266.66	-9.80		124.89
350	0.70	101.37	-6.10	260.09	-9.80		120.32
355	0.65	105.89	-6.81	259.07	-10.69		120.17