



COMSEARCH

An Andrew Company

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October 15, 2018

Federal Communications Commission
International Branch – Satellite Division
445 12th Street SW,
Washington, DC 20554

RE: Fox Broadcasting Company
Evansville, IN
Call Sign E000483
SES-MOD-20180604-01151

The antennas filed with this modification request were 3.8 meter antennas. The antenna should be 4.5 meter antennas.

See Attached 312 B information.

See attached coordination data.

Petition for Reconsideration – A petition for reconsideration for this site is requested to correct the coordinates of this site on the FCC License/Public Notice. Since the coordinates on the frequency coordination report is correct, the microwave licensees were sent the correct data during the frequency coordination process for this site.

All other parameters remain the same.

Please let me know if you have any questions.

Thank you

Tim Crutcher
19700 Janelia Farm Blvd
Ashburn, Va 20147
703-726-5665

Site ID*	E28 Antenna ID**	E29 Quantity	E30 Manufacturer	E31 Model	E32 Antenna Size (meters)	E41/42 Antenna Gain Transmit and/or Receive (____dBi at ____GHz)
4.5M	4.5M	2	Andrew Corp	ESA-45-46	4.5	43.9 dBi @ 3.95 GHz

E28 Antenna ID**	E33/34 Diameter Major/Minor	Maximum Antenna Height		E37 Building Height Above Ground Level (meters)***	E39 Maximum Antenna Height Above Rooftop (meters)***
		E35 Above Ground Level (meters)	E36 Above Mean Sea Level (meters)		
4.5M		5	122.35	0	0

E28 Antenna ID*	(E43/44 Frequency Limits (MHz))	E45 T/R Mode **	E46 Antenna Polarization (H,V,L,R)	E47 Emission Designator	E50 Description of Modulation and Services
4.5M	3700.00 – 4200.00	R	H,V	1. 36 M0G7W	Digital traffic, various FEC, data rates and modulations

E28 Antenna ID*	E52/53 Frequency Limits (MHz)	E54/55 Range of Satellite Arc Eastern Limit***	E56 Earth Station Azimuth Angle Eastern Limit	E57 Antenna Elevation Angle Eastern Limit	E58 Earth Station Azimuth Angle Western Limit	E59 Earth Station Azimuth Angle Western Limit
4.5M	3700.00 – 4200.00	60.0/143.	139.7	37.4	247.0	18.3

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Fox Broadcasting Company
EVANSVILLE, IN
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
October 15, 2018

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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. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

There were no great circle interference cases identified during the interference study of the proposed earth station.

No carriers reported potential interference cases.

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 Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent on 10/15/2018.

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.

Date: 10/15/2018
Job Number: 181015COMSTC03

Administrative Information

Call Sign E000483
Licensee Code FOXBRO
Licensee Name Fox Broadcasting Company

Site Information **EVANSVILLE, IN**

Venue Name
Latitude (NAD 83) 37° 58' 30.6" N
Longitude (NAD 83) 87° 34' 34.1" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 117.35 m / 385.0 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 139.7° to 247.0°
Corresponding Elevation Angles 37.4° / 18.3°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information **Receive - A40451**

Manufacturer ANDREW CORPORATION
Model ESA45-46A
Gain / Diameter 43.9 dBi / 4.5 m
3-dB / 15-dB Beamwidth 1.20° / 2.40°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information **Receive 4.0 GHz**

Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 345.9 km / 214.9 mi
Precipitation Scatter Contour Radius 585.2 km / 363.6 mi

Coordination Values**EVANSVILLE, IN**

Licensee Name Fox Broadcasting Company
 Latitude (NAD 83) 37° 58' 30.6" N
 Longitude (NAD 83) 87° 34' 34.1" W
 Ground Elevation (AMSL) 117.35 m / 385.0 ft
 Antenna Centerline (AGL) 3.05 m / 10.0 ft
 Antenna Model Andrew Corporation ESA45-46A
 Antenna Mode Receive 4.0 GHz
 Interference Objectives: Long Term -156.0 dBW/MHz 20%
 Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.21	111.79	-10.81	279.36
5	0.22	116.49	-12.99	264.10
10	0.00	120.47	-15.19	254.41
15	0.30	116.98	-13.29	253.82
20	0.24	113.23	-11.39	271.73
25	0.00	109.36	-9.59	287.89
30	0.00	105.51	-6.51	308.46
35	0.00	101.61	-6.10	311.30
40	0.00	97.67	-6.10	311.30
45	0.00	93.71	-6.10	311.30
50	0.00	89.75	-6.10	311.30
55	0.00	85.78	-6.10	311.30
60	0.00	81.82	-6.10	311.30
65	0.00	77.89	-6.10	311.30
70	0.00	73.99	-6.10	311.30
75	0.00	70.15	-6.10	311.30
80	0.00	66.37	-6.10	311.30
85	0.00	62.67	-6.10	311.30
90	0.00	59.08	-6.10	311.30
95	0.00	55.62	-6.10	311.30
100	0.00	52.33	-6.10	311.30
105	0.00	49.23	-6.10	311.30
110	0.00	46.37	-6.10	311.30
115	0.00	43.81	-6.10	311.30
120	0.00	41.61	-6.10	311.30
125	0.00	39.81	-6.10	311.30
130	0.00	38.48	-6.10	311.30
135	0.00	37.68	-6.10	311.30
140	0.00	37.43	-6.10	311.30
145	0.00	37.75	-6.10	311.30
150	0.00	38.62	-6.10	311.30
155	0.00	40.01	-8.10	297.64
160	0.00	41.86	-8.47	295.18
165	0.00	43.62	-8.82	292.87
170	0.00	44.92	-9.08	291.17
175	0.00	45.73	-9.25	290.13
180	0.00	46.00	-9.30	289.78
185	0.00	45.72	-9.24	290.13

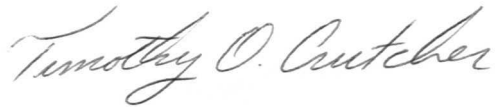
Coordination Values**EVANSVILLE, IN**

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Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	44.92	-9.08	291.17
195	0.00	43.62	-8.82	292.87
200	0.00	41.86	-8.47	295.18
205	0.00	39.71	-8.04	298.04
210	0.00	37.21	-7.54	301.40
215	0.00	34.42	-6.87	305.97
220	0.00	31.40	-5.66	315.01
225	0.00	28.17	-4.73	321.57
230	0.00	24.80	-4.02	326.69
235	0.00	21.79	-2.82	335.46
240	0.00	19.57	-1.93	342.03
245	0.20	18.23	-1.39	345.91
250	0.00	18.55	-1.52	345.08
255	0.21	19.73	-1.99	339.74
260	0.29	22.09	-2.94	322.52
265	0.43	25.15	-4.13	295.42
270	0.54	28.76	-4.85	279.06
275	0.48	32.80	-6.10	276.35
280	0.30	37.09	-6.10	298.14
285	0.32	41.44	-6.10	295.90
290	0.40	45.89	-6.10	285.96
295	0.44	50.43	-6.10	281.17
300	0.33	55.07	-6.10	294.87
305	0.38	59.71	-6.10	288.80
310	0.51	64.38	-6.10	273.32
315	0.54	69.09	-6.10	270.87
320	0.53	73.82	-6.10	272.10
325	0.00	78.60	-6.10	311.30
330	0.00	83.34	-6.10	311.30
335	0.00	88.09	-6.10	311.30
340	0.00	92.83	-6.10	311.30
345	0.00	97.58	-6.10	311.30
350	0.00	102.32	-6.10	311.30
355	0.20	107.06	-7.75	299.93

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.



Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: October 15, 2018