

19700 Janelia Farm Boulevard

Ashburn, VA 20147

(703) 726-5500

Fax (703) 726-5600



<http://www.comsearch.com>

September 29, 2012

*** CLIENT COPY ***

*** PLEASE MAIL ***

*** TO CUSTOMER ***

Re: AMC Networks Broadcasting & Technology LLC
BETHPAGE, NEW YORK
Call Sign: E010028
C-Band, Transmit-Receive Earth Station
Job Number: 120929COMSJC01

***** EXPEDITED LICENSE MODIFICATION *****
***** RESPONSE REQUESTED BY OCTOBER 12, 2012 *****

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 expedited coordination data on behalf of AMC Networks Broadcasting & Technology LLC to add a new 9 meter C-band, transmit/receive earth station in Bethpage, New York and modify their license (E010028) accordingly.

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).

Please update your database with the attached information.

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 were not previously resolved, please contact Comsearch by October 12, 2012.

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

Sincerely,

COMSEARCH

Jeffrey E. Cowles
Engineer III, Telecommunications
jcowles@comsearch.com

Enclosure(s)

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5660 <http://www.comsearch.com>

Date: 09/29/2012
Job Number: 120929COMSJC01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign: E010028
Licensee Code: RAINC
Licensee Name: AMC Networks Broadcasting & Technology LLC

Site Information**BETHPAGE, NEW YORK**

Venue Name:
Latitude (NAD 83): 40° 44' 39.6" N
Longitude (NAD 83): 73° 29' 38.1" W
Climate Zone: B
Rain Zone: 2
Ground Elevation (AMSL): 32.0 m / 105.0 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Analog and Digital
Satellite Arc: 60° W to 143° West Longitude
Azimuth Range: 159.8° to 256.3°
Corresponding Elevation Angles: 40.9° / 6.7°
Antenna Centerline (AGL): 5.49 m / 18.0 ft

Antenna Information**Receive - FCC32****Transmit - FCC32**

Manufacturer		GD SATCOM Tech.		GD SATCOM Tech.	
Model		9 Meter		9 Meter	
Gain / Diameter		50.1 dBi / 9.0 m		53.5 dBi / 9.0 m	
3-dB / 15-dB Beamwidth		0.50° / 1.20°		0.40° / 0.80°	
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			-18.0 6.0	
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)			35.5 59.5 72.0	
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)		36M0F3F / 3700.0 - 4200.0		18M0G7F / 5925.0 - 6425.0
		36M0G7F / 3700.0 - 4200.0		
Max Great Circle Coordination Distance		769.8 km / 478.3 mi		235.9 km / 146.6 mi
Precipitation Scatter Contour Radius		585.3 km / 363.6 mi		100.0 km / 62.1 mi

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Coordination Values	BETHPAGE, NY		
Licensee Name	AMC Networks Broadcasting & Technology LLC		
Latitude (NAD 83)	40° 44' 39.6" N		
Longitude (NAD 83)	73° 29' 38.1" W		
Ground Elevation (AMSL)	32.0 m / 105.0 ft		
Antenna Centerline (AGL)	5.49 m / 18.0 ft		
Antenna Model	GD SATCOM Technologies 9 Meter		
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			-18.0 (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	0.24	103.62	-10.00	399.65	-10.00	127.81
5	0.32	108.59	-10.00	373.04	-10.00	120.11
10	0.24	113.55	-10.00	398.89	-10.00	127.58
15	0.29	118.51	-10.00	380.74	-10.00	122.29
20	0.43	123.48	-10.00	341.35	-10.00	112.78
25	0.42	122.42	-10.00	344.91	-10.00	113.79
30	0.40	119.14	-10.00	348.39	-10.00	115.20
35	0.36	115.72	-10.00	360.59	-10.00	116.66
40	0.37	112.21	-10.00	356.93	-10.00	115.66
45	0.36	108.60	-10.00	360.39	-10.00	116.60
50	0.36	104.93	-10.00	358.57	-10.00	116.11
55	0.34	101.21	-10.00	364.38	-10.00	117.70
60	0.29	97.44	-10.00	380.69	-10.00	122.28
65	0.00	93.64	-10.00	412.20	-10.00	131.57
70	0.00	89.86	-10.00	412.20	-10.00	131.57
75	0.00	86.08	-10.00	412.20	-10.00	131.57
80	0.00	82.32	-10.00	412.20	-10.00	131.57
85	0.00	78.58	-10.00	412.20	-10.00	131.57
90	0.00	74.88	-10.00	412.20	-10.00	131.57
95	0.00	71.23	-10.00	412.20	-10.00	131.57
100	0.00	67.66	-10.00	412.20	-10.00	131.57
105	0.00	64.18	-10.00	412.20	-10.00	131.57
110	0.00	60.80	-10.00	412.20	-10.00	131.57
115	0.00	57.57	-10.00	412.20	-10.00	131.57
120	0.00	54.50	-10.00	412.20	-10.00	131.57
125	0.00	51.64	-10.00	412.20	-10.00	131.57
130	0.00	49.01	-10.00	412.20	-10.00	131.57
135	0.00	46.67	-9.73	415.61	-9.73	132.49
140	0.00	44.67	-9.25	421.62	-9.25	134.11
145	0.00	43.04	-8.85	426.76	-8.85	135.50
150	0.00	41.85	-8.54	430.71	-8.54	136.57
155	0.00	41.12	-8.35	433.18	-8.35	137.25
160	0.00	40.89	-8.29	433.99	-8.29	137.47
165	0.00	41.16	-8.36	433.06	-8.36	137.22
170	0.00	41.92	-8.56	430.46	-8.56	136.51
175	0.00	42.65	-8.75	428.04	-8.75	135.85
180	0.00	42.90	-8.81	427.23	-8.81	135.63
185	0.00	42.65	-8.75	428.04	-8.75	135.85

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Antenna Mode	Receive 4.0 GHz	Transmit 6.1 GHz	
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			0.0025%
			-18.0 (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)
190	0.00	41.92	-8.56	430.46	-8.56	136.51
195	0.00	40.73	-8.25	434.54	-8.25	137.62
200	0.00	39.12	-7.81	440.31	-7.81	139.20
205	0.00	37.14	-7.24	447.88	-7.24	141.29
210	0.00	34.82	-6.55	457.41	-6.55	143.94
215	0.00	32.23	-5.71	468.52	-5.71	147.22
220	0.00	29.39	-4.70	482.90	-4.70	151.14
225	0.00	26.35	-3.52	500.47	-3.52	156.14
230	0.00	23.15	-2.11	522.21	-2.11	162.37
235	0.00	19.81	-0.42	549.51	-0.42	170.28
240	0.00	16.36	1.66	584.77	1.66	180.62
245	0.00	12.81	4.32	632.10	4.32	194.85
250	0.00	9.21	7.89	702.05	7.89	215.99
255	0.00	6.87	11.08	769.84	11.08	235.92
260	0.00	7.69	9.85	742.96	9.85	228.04
265	0.00	11.00	5.96	663.55	5.96	204.59
270	0.00	15.25	2.42	598.15	2.42	184.57
275	0.00	19.85	-0.44	549.11	-0.44	170.17
280	0.00	24.60	-2.77	511.90	-2.77	159.41
285	0.00	29.43	-4.72	482.68	-4.72	151.08
290	0.00	34.30	-6.38	459.67	-6.38	144.57
295	0.00	39.20	-7.83	440.01	-7.83	139.12
300	0.00	44.13	-9.12	423.30	-9.12	134.56
305	0.00	49.06	-10.00	412.20	-10.00	131.57
310	0.00	54.00	-10.00	412.20	-10.00	131.57
315	0.23	58.94	-10.00	400.14	-10.00	127.96
320	0.21	63.90	-10.00	407.28	-10.00	130.09
325	0.25	68.86	-10.00	395.16	-10.00	126.48
330	0.31	73.82	-10.00	374.86	-10.00	120.62
335	0.30	78.78	-10.00	378.49	-10.00	121.65
340	0.41	83.75	-10.00	345.14	-10.00	113.86
345	0.22	88.72	-10.00	406.07	-10.00	129.72
350	0.20	93.69	-10.00	411.97	-10.00	131.50
355	0.00	98.65	-10.00	412.20	-10.00	131.57