

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
Manhasset, New York**

Temporary Transmit-Only Earth Station
Operation Dates: 01/01/2017 - 07/01/2017

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. Verbal and written coordination was conducted with the below listed carriers on December 7, 2016.

Company

AB Services LLC
ALGONQUIN GAS TRANSMISSION, LLC
AT&T Corp.
Auburn Data Systems, LLC
BFI Licenses, LLC
Blueline Communications
CONSOLIDATED EDISON COMPANY OF NEW YORK
Capital Communications of America
Cellco Partnership - (W-NY)
Central Hudson Gas & Electric Corp.
China Cat Productions LLC
City of New York
Connecticut State Police Department
Coralinks
County of Warren, NJ
Cox Radio Inc
DSRC
Direct Broadcast Services, Inc.
Dutchess County Emergency Response
ECW Wireless, LLC
Eastern MLG LLC
Electric Railroad, LLC
Essex County Sheriff's Office (NJ)
Eversource Energy Service Company
FELHC, INC
Federal Communication Commission
Garden State Transmissions
Goosetown Network Services, LLC
Hammarlund Research LLC
High Voltage Communications LLC (CFN)
Higher Ground LLC
Jefferson Microwave, LLC
Kryptick Technologies
MONMOUTH, COUNTY OF
Mahwah Communications

Middlesex, County of
Morris, County of
NEW YORK CITY POLICE DEPARTMENT
Nassau County Police Department
National Tower Company LLC
NeXXCom Wireless LLC
New Cingular Wireless PCS LLC - NJ
New Jersey State Police
New Jersey Transit Rail Operations, Inc.
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
New Line Networks, LLC
New York Communications Co., Inc
Office of Emergency Telecom Services, NJ
Orange County Dept of Emergency Services
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PSEG Services Corporation
Port Authority of New York & New Jersey
Qoncept Holdings LLC
Rendezvous Communications LLC
SCS Networks
SW Networks
Suffolk County Police Department
Sullivan County DPW
Texas Eastern Communications, LLC
Transcontinental Gas Pipeline Corp.
Turtle Networks 6559
ULSTER COUNTY OF
Uniti Fiber PEG, LLC
Weblin Holdings LLC
Westchester, County of
Wireless Internetwork LLC
World Class Wireless, LLC
iSignal
xWave Engineering LLC

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Date: 12/07/2016
Job Number: 161207COMSGE01

Administrative Information

Status: TEMPORARY (Operation from 01/01/2017 to 07/01/2017)
Call Sign: TEMP07
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

MANHASSET, NY

Venue Name
Latitude (NAD 83): 40° 46' 40.0" N
Longitude (NAD 83): 73° 42' 3.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 39.17 m / 128.5 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 27.5° W to 27.5° West Longitude
Azimuth Range: 122.1° to 122.1°
Corresponding Elevation Angles: 23.6° / 23.6°
Antenna Centerline (AGL): 3.66 m / 12.0 ft

Antenna Information

Transmit - FCC32

Manufacturer: Andrew
Model: ESA39AA-1
Gain / Diameter: 46.3 dBi / 3.9 m
3-dB / 15-dB Beamwidth: 0.79° / 1.66°

Max Available RF Power (dBW/4 kHz): -12.2
(dBW/MHz): 11.8

Maximum EIRP (dBW/4 kHz): 34.1
(dBW/MHz): 58.1

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): 1M84G7W / 5925.0 - 6329.0
1M84G7W / 6362.0 - 6425.0

Max Great Circle Coordination Distance: 136.5 km / 84.8 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

Coordination Values		MANHASSET, NY	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		40° 46' 40.0" N	
Longitude (NAD 83)		73° 42' 3.0" W	
Ground Elevation (AMSL)		39.17 m / 128.5 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Andrew 3.9 meter	
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	-12.2 (dBW/4 kHz)		

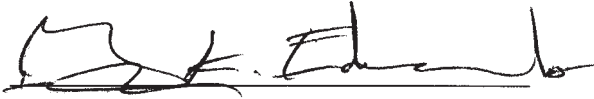
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	119.10	-10.00	136.55
5	0.00	114.63	-10.00	136.55
10	0.00	110.13	-10.00	136.55
15	0.00	105.59	-10.00	136.55
20	0.31	101.06	-10.00	128.97
25	0.36	96.48	-10.00	124.43
30	0.30	91.89	-10.00	129.42
35	0.21	87.30	-10.00	135.99
40	0.48	82.71	-10.00	114.79
45	0.79	78.09	-10.00	100.41
50	1.35	73.44	-10.00	100.00
55	1.67	68.81	-10.00	100.00
60	2.05	64.17	-10.00	100.00
65	2.41	59.55	-10.00	100.00
70	2.52	55.01	-10.00	100.00
75	3.37	50.28	-10.00	100.00
80	4.29	45.54	-9.46	100.00
85	4.37	41.13	-8.35	100.00
90	4.41	36.85	-7.16	100.00
95	4.36	32.81	-5.90	100.00
100	4.38	28.97	-4.55	100.00
105	4.40	25.50	-3.17	100.00
110	4.34	22.64	-1.87	100.00
115	4.29	20.55	-0.82	100.00
120	4.26	19.49	-0.25	100.00
125	3.98	19.88	-0.46	100.00
130	3.53	21.56	-1.34	100.00
135	3.13	24.10	-2.55	100.00
140	2.51	27.45	-3.97	100.00
145	2.44	30.84	-5.23	100.00
150	2.34	34.61	-6.48	100.00
155	2.31	38.58	-7.66	100.00
160	1.80	42.94	-8.82	100.00
165	1.68	47.24	-9.86	100.00
170	1.36	51.69	-10.00	100.00
175	0.77	56.27	-10.00	101.30
180	0.97	60.67	-10.00	100.00
185	1.38	65.10	-10.00	100.00

Coordination Values	MANHASSET, NY	
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Antenna Centerline (AGL)	3.66 m / 12.0 ft	
Antenna Model	Andrew 3.9 meter	
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	-12.2 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.38	69.66	-10.00	100.00
195	1.24	74.26	-10.00	100.00
200	1.20	78.86	-10.00	100.00
205	1.10	83.48	-10.00	100.00
210	1.06	88.10	-10.00	100.00
215	1.21	92.72	-10.00	100.00
220	1.25	97.34	-10.00	100.00
225	1.28	101.95	-10.00	100.00
230	1.34	106.56	-10.00	100.00
235	1.53	111.17	-10.00	100.00
240	1.54	115.73	-10.00	100.00
245	1.54	120.25	-10.00	100.00
250	1.92	124.83	-10.00	100.00
255	2.03	129.29	-10.00	100.00
260	1.90	133.60	-10.00	100.00
265	1.95	137.86	-10.00	100.00
270	1.94	141.94	-10.00	100.00
275	1.81	145.75	-10.00	100.00
280	1.50	149.14	-10.00	100.00
285	1.25	152.11	-10.00	100.00
290	1.25	154.71	-10.00	100.00
295	1.36	156.68	-10.00	100.00
300	1.38	157.64	-10.00	100.00
305	1.10	157.27	-10.00	100.00
310	0.71	155.80	-10.00	103.79
315	0.55	153.71	-10.00	110.99
320	0.44	150.97	-10.00	118.40
325	0.00	147.52	-10.00	136.55
330	0.00	144.03	-10.00	136.55
335	0.00	140.25	-10.00	136.55
340	0.00	136.26	-10.00	136.55
345	0.00	132.12	-10.00	136.55
350	0.00	127.86	-10.00	136.55
355	0.00	123.51	-10.00	136.55

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY: 

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DATED: January 6, 2017