



WASHINGTON, DC

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March 20, 2013

VIA IBFS

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: Request of Lockheed Martin for STA to Support Satmex 8 Post-Launch and Early Operations, File No. SES-STA-20130319-00280

Dear Ms. Dortch:

Lockheed Martin Corporation (“Lockheed Martin”), by its attorneys, hereby supplements its above-referenced request for a special temporary authority (“STA”) to use the C-band antenna on its Carpentersville, New Jersey earth station (Call Sign E7541) to support post-launch and early operations (“LEOp”) of the Satmex 8 satellite following its anticipated March 27, 2013 launch. In its STA request, Lockheed Martin included the Prior Coordination Notice from Comsearch for the temporary coordination of the Satmex 8 LEOp frequencies from Carpentersville, and stated that it would file the final report upon receipt.

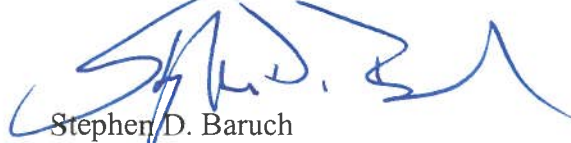
Lockheed Martin has now received the final coordination report from Comsearch, and the report confirms that LEOp from Lockheed Martin’s earth station (Call Sign E7541) in support of Satmex 8 raises “no unresolved interference objections” for the period covered by the STA request and beyond. Lockheed Martin includes a copy of the final Comsearch report as an attachment to this letter.

As a reminder, Lockheed Martin has requested Commission action on the Satmex 8 LEOp STA in time to enable calibration testing to commence on March 24. The attached Comsearch frequency coordination report is the final element to confirm that such important operations are able to be authorized as requested.

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This letter is being submitted directly into the file for the Lockheed Martin Satmex 8 STA request. Please direct any questions regarding this submission to the undersigned.

Respectfully submitted,



Stephen D. Baruch
for Lockheed Martin Corporation

Enclosure

cc (w/encl.): Mr. Paul Blais (by email)

Prepared By

COMSEARCH

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

Prepared For

**Lockheed Martin Corporation
Carpentersville, New Jersey**

Temporary Transmit-Only Earth Station
Operation Dates: 03/24/2013 - 07/04/2013

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 March 13, 2013.

Company

256Q Networks
AB Services LLC
ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY
ALGONQUIN GAS TRANSMISSION CO
AT&T COMMUNICATIONS OF MARYLAND INC
AT&T Communications of Virginia, LLC
AT&T Corp.
AWC Networks
Aerbender, LLC
Allentown SMSA Limited Partnership
Appalachian Broadcasting
Atlantic Broadband (Delmar), LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
Auburn Data Systems, LLC
BAY BROADBAND COMMUNICATIONS LLC
BFI Licenses, LLC
BLAIR COUNTY 911
Baltimore County of Maryland
Baltimore Gas and Electric Company
Bedford, County of
Believe Wireless, LLC
Berks, County of
Binghamton MSA Limited Partnership(NY)
Binghamton MSA Limited Partnership(PA)
Bucks, County of
CAMDEN COUNTY
CENTRE COUNTY
CHESTER, COUNTY OF

Company (Continued)

CONSOLIDATED EDISON COMPANY OF NEW YORK
CTAB Holdings LLC
Capital Communications of America
Carbon, County of 911 Center
Cellco Partnership - (W-NY)
Cellco Partnership - Bridgeville, PA/WV
Cellco Partnership- PA Region
Cellco Partnership-Newark-Dallas Verizon
Cellco Partnership-WDC/Baltimore
Cellco Prtnrshp - Phil. Tri-State Rgn
China Cat Productions LLC
City of New York
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Connecticut State Police Department
Conterra Ultra Broadband, LLC
Converge Towers LLC
Coral Reef Technologies Ltd
Coralinks
County of Frederick
County of Warren, NJ
Cumberland, County of
DAUPHIN COUNTY EMERGENCY MANAGEMENT
Delaware Division of Communications
Delmarva Power & Light Company
Direct Broadcast Services, Inc.
ECW Wireless, LLC
EG Broadcast Newco Corp
EMS OF NORTHEAST PENNSYLVANIA
Eastern MLG LLC
Eastern Pennsylvania EMS Council
Electric Railroad, LLC
Enoch Pratt Free Library
Essex County Sherrif Office (NJ)
Exelon Generation Company, L.L.C
FELHC, Inc.
Federal Communications Commission
Fibertrack, LLC
Fundamental Broadcasting LLC
Garden State Transmissions
Geneva Communications, LLC
Gloucester, County of
Goosetown Network Services, LLC
Hardy Cellular Telephone Company
High Voltage Communications LLC
Highway Networks, LLC
Huntingdon, County of
Jefferson Microwave, LLC
Juniata County Emergency Services
K1 COMMUNICATIONS
Kryptic Technologies

Company (Continued)

Last Mile Inc.
Luzerne County Department of Public Sfty
MONMOUTH, COUNTY OF
MVC Research. LLC
Mahwah Communications
Maryland Public Broadcasting Commission
Maryland State Highway Administration
Maryland, State of - Dept. of Info & Tech
Monroe County Control Center (PA)
Morris, County of
NYNEX Mobile of New York LP
Nassau County Police Department
National Tower Company
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS - Maryland
New Cingular Wireless PCS LLC - DC
New Cingular Wireless PCS LLC-DE/NH/RI
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC (NY)
New Cingular Wireless PCS, LLC - PA
New Jersey State Police
New Jersey Transit Rail Operations, Inc.
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
New York Communcations Co., Inc
New York State Police
New York, City of (Police Department)
Newgig Networks, LLC
Norfolk Southern Railway
Northeast Pennsylvania SMSA LTD Prtnrsh
Northeast Utilities Services Company
OCEAN, COUNTY OF
Ocean, County of-Div of Wireless Tech.
Office of Emergency Telecom Services, NJ
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
PEG Bandwidth
PENNSYLVANIA TURNPIKE COMMISSION
PSEG Services Corporation
Peco Energy Company
Penn Service Microwave Co., Inc.
Pike, County of PA
Pitt Power
Pitt Power
Port Authority of New York & New Jersey
Prince George's County
Qoncept Holdings LLC
SCS Networks
SCTF NET
SW Networks

Company (Continued)

State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Stevens Institute of Technology
Suffolk, County of
Sullivan, County of
TRF SERVICES LLC
Texas Eastern Communications, Inc.
Thought Transmissions, LLC
Turtle Networks 6386
Turtle Networks 6423
Turtle Networks 6457
Turtle Networks 6465
Turtle Networks 6466
Turtle Networks 6467
US Cellular Operating Company, LLC (WI)
USCOC of Cumberland, Inc.
Velox Networks LLC
Verizon Wireless (VAW) LLC (Georgia)
Verizon Wireless (VAW) LLC (NY)
Verizon Wireless (VAW) LLC - Delaware
Verizon Wireless (VAW) LLC - Maryland
Verizon Wireless (VAW) LLC - NJ
Verizon Wireless (VAW) LLC-Pennsylvania
WITF Inc.
Washington D.C. SMSA L.P.
Washington Gas Light Company
Washington Suburban Sanitary Commission
Weblin Holdings LLC
White Rabbit Networks
Wico, LLC
Wireless Backhaul Infrastructure, LLC
Wireless Internet Work II.
Wireless Internetwork LLC
World Class Wireless LLC
York County Dept of Emergency Services
Zen Networks, Inc
iSignal

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

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

COMSEARCH

Earth Station Data Sheet

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

Date: 03/19/2013
Job Number: 130313COMSJC01

Administrative Information

Status: TEMPORARY (Operation from 03/24/2013 to 07/04/2013)
Call Sign: TEMP07
Licensee Code: RCASTR
Licensee Name: LOCKHEED MARTIN CORPORATION

Site Information

CARPENTERSVILLE, NEW JERSEY

Venue Name
Latitude (NAD 83): 40° 38' 39.4" N
Longitude (NAD 83): 75° 11' 27.6" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 54.86 m / 180.0 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 18° W to 136° West Longitude
Azimuth Range: 112.8° to 250.0°
Corresponding Elevation Angles: 15.9° / 13.3°
Antenna Centerline (AGL): 9.14 m / 30.0 ft

Antenna Information

Transmit
Manufacturer: TIW
Model: 14.2 Meter
Gain / Diameter: 57.5 dBi / 14.2 m
3-dB / 15-dB Beamwidth: 0.20° / 0.50°

Max Available RF Power: (dBW/4 kHz) 29.8
(dBW/MHz) 53.8

Maximum EIRP: (dBW/4 kHz) 87.3
(dBW/MHz) 111.3
(dBW) 87.3

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): 1K00G3D / 5926.5
1K00G3D / 6424.5

Max Great Circle Coordination Distance: 332.5 km / 206.6 mi
Precipitation Scatter Contour Radius: 0.0 km / 0.0 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	CARPENTERSVILLE, NJ
Licensee Name	LOCKHEED MARTIN CORPORATION
Latitude (NAD 83)	40° 38' 39.4" N
Longitude (NAD 83)	75° 11' 27.6" W
Ground Elevation (AMSL)	54.86 m / 180.0 ft
Antenna Centerline (AGL)	9.14 m / 30.0 ft
Antenna Model	TIW 14.2 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	29.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	3.54	109.70	-10.00	195.91
5	4.01	107.39	-10.00	186.00
10	4.15	102.51	-10.00	183.56
15	4.33	97.62	-10.00	180.56
20	3.97	92.72	-10.00	186.82
25	3.25	87.83	-10.00	201.82
30	3.56	82.95	-10.00	195.34
35	3.79	78.06	-10.00	190.53
40	3.82	73.17	-10.00	189.87
45	3.86	68.30	-10.00	189.14
50	3.66	63.45	-10.00	193.34
55	3.51	58.62	-10.00	196.40
60	3.33	53.82	-10.00	200.35
65	3.16	49.05	-10.00	203.75
70	3.20	44.28	-9.15	205.60
75	3.16	39.57	-7.93	212.92
80	3.14	34.92	-6.58	220.90
85	3.07	30.39	-5.07	231.50
90	3.08	25.98	-3.37	242.10
95	2.95	21.88	-1.50	257.31
100	2.73	18.28	0.45	277.67
105	2.74	15.26	2.41	292.71
110	2.73	13.47	3.77	304.07
115	2.77	13.33	3.88	303.80
120	2.69	15.03	2.57	295.48
125	2.45	18.11	0.55	286.45
130	2.22	21.59	-1.36	278.19
135	2.18	24.78	-2.85	268.15
140	2.74	27.34	-3.92	246.85
145	2.33	30.44	-5.09	248.88
150	2.25	33.04	-5.98	245.92
155	1.92	35.57	-6.78	249.16
160	2.20	37.24	-7.28	239.18
165	2.65	38.35	-7.59	226.37
170	2.42	39.68	-7.96	229.52
175	1.94	40.84	-8.28	240.16
180	1.90	41.11	-8.35	240.76
185	1.86	40.92	-8.30	242.51

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Earth Station Data Sheet

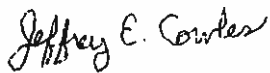
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Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	29.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.24	40.83	-8.27	262.31
195	1.36	39.56	-7.93	260.37
200	2.35	37.10	-7.24	235.63
205	1.76	35.72	-6.82	254.19
210	1.78	33.43	-6.10	258.04
215	2.34	30.43	-5.08	248.60
220	3.42	26.81	-3.71	231.95
225	4.04	23.36	-2.21	227.67
230	4.93	19.56	-0.29	224.91
235	4.35	16.73	1.41	246.63
240	4.47	13.24	3.95	261.50
245	3.78	10.70	6.27	294.75
250	2.48	10.78	6.19	332.54
255	2.26	12.06	4.97	328.43
260	2.60	14.57	2.91	300.92
265	3.11	18.04	0.59	268.55
270	3.30	22.25	-1.68	248.05
275	2.81	26.96	-3.77	245.92
280	2.85	31.59	-5.49	234.12
285	3.20	36.24	-6.98	217.28
290	3.81	40.92	-8.30	199.19
295	4.44	45.67	-9.49	181.52
300	5.32	50.46	-10.00	163.45
305	5.51	55.36	-10.00	161.12
310	5.49	60.30	-10.00	161.42
315	5.56	65.24	-10.00	160.57
320	4.72	70.23	-10.00	173.94
325	3.93	75.20	-10.00	187.73
330	3.38	80.15	-10.00	199.12
335	3.19	85.08	-10.00	203.25
340	3.15	90.00	-10.00	203.97
345	3.16	94.92	-10.00	203.80
350	3.35	99.85	-10.00	199.81
355	3.48	104.78	-10.00	197.17

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.



Jeffrey E. Cowles
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Virginia 20147

DATED: March 19, 2013