Approved by OMB
3060–0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu:
Request for STA re

1. Applicant

Name:	Lockheed Martin Corporation	**Phone Number:**	703–413–5970
DBA Name:		**Fax Number:**	703–413–5908
Street:	2121 Crystal Drive Suite 100	**E–Mail:**	jennifer.warren@lmco.com
City:	Arlington	**State:**	VA
Country:	USA	**Zipcode:**	22202 –
Attention:	Ms Jennifer Warren		

File # SES-STA-20130319-00280
E7541
Call Sign Grant Date 3-22-13
(or other identifier)
Term Dates
From 3-24-13 To: 4-23-13
Approved: Paul E Blaes

Applicant: Lockheed Martin Corporation
Call Sign: E7541
File Number: SES-STA-20130319-00280
Special Temporary Authority (STA)

Lockheed Martin Corporation (Lockheed Martin) is granted STA, with special operating conditions, for 30 days beginning on March 24, 2013 for its earth station Call Sign 7541 at Carpentersville, New Jersey to provide telemetry, tracking, and control (TT&C) services during the launch and early phase operations for Satmex 8 satellite as follows:

1. Lockheed Martin is granted authority to transmit on 5926.5 MHz and 6424.5 MHz (LHCP) and receive on 4199.4 MHz and 4198.6 MHz (RHCP).

2. The permanent orbital location for Satmex 8 will be 116.8° W.L. The satellite will be in-orbit tested at 114.9° W.L.

3. Operations under this authority are on a non-interference basis only.

4. Operations under this authority are on a non-protected basis only.

5. In the event of any harmful interference under this grant of special temporary authority, Lockheed Martin must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.

6. The LEOP operations must be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path must be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently, Lockheed Martin's 24x7 contact information for the Satmex 8 TT& C service is as follows: Michael Usarzewicz at station number (908) 859-4050 and cell phone : (609) 865-2658.

7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Lockheed Martin's risk.

8. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.

GRANTED
International Bureau

File # SES-STA-20130319-00280
Call Sign E7541 Grant Date 3-22-13
(or other identifier)
Term Dates
From 3-24-13 To: 4-23-13
Approved: Paul E Blaes

2. Contact

Name:	Stephen D. Baruch	**Phone Number:**	202-416-6782
Company:	Lerman Senter PLLC	**Fax Number:**	202-429-4626
Street:	2000 K Street, NW	E-Mail:	sbaruch@lermansenter.com
	Suite 600		
City:	Washington	**State:**	DC
Country:	USA	**Zipcode:**	20006 -1809
Attention:		**Relationship:**	Legal Counsel

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)
3. Reference File Number SESSTA2011120901447 or Submission ID

4a. Is a fee submitted with this application?
◉ If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
○ Governmental Entity ○ Noncommercial educational licensee
○ Other(please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

○ Use Prior to Grant ○ Change Station Location ◉ Other

6. Requested Use Prior Date 03/24/2013	
7. CityCarpentersville	8. Latitude (dd mm ss.s h) 40 38 39.1 N

9. State NJ	10. Longitude (dd mm ss.s h) 75 11 27.8 W

11. Please supply any need attachments.

Attachment 1: Exhibit A Attachment 2: Attachment 3:

12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Lockheed Martin Corp. requests a 30-day STA to use the C-band antenna on its Carpentersville, NJ earth station to support post-launch/early-operations TT&C for the Satmex 8 satellite, which will be launched on March 27, 2013. STA period to commence March 24, 2013 to allow for calibration testing. See Exhibit A.

13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. ◉ Yes ○ No

14. Name of Person Signing Jennifer Warren	15. Title of Person Signing Vice President, Technology Policy & Regulation

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

Exhibit A
Lockheed Martin Corporation
Carpentersville, NJ Earth Station
Call Sign E7541
STA Request for
LEOp TT&C Operations
March 2013

Description

Lockheed Martin Corporation ("Lockheed Martin") requests special temporary authority ("STA") to operate its Carpentersville, New Jersey C-band fixed earth station (see File No. SES-LIC-20081103-01443, as amended) [1] to provide telemetry, tracking and control ("TT&C") functions during the post-launch and transfer orbit phases of operation for the Satmex 8 satellite that will be operated by Satélites Mexicanos, S.A. de C.V. ("Satmex"). Satmex 8 is currently scheduled for launch on March 27, 2013 (March 26, DC time), and Lockheed Martin intends to perform test transmissions in preparation for the launch on or about March 24, 2013.[2] To the extent required to meet this timetable, Lockheed Martin requests expedited treatment of the instant STA request and action by March 24, 2013.

Lockheed Martin specifically seeks authority to transmit using left-hand circular polarization on the 5926.5 MHz frequency, and using left-hand circular polarization on the 6426.5 MHz frequency. The earth station would receive telemetry signals from the Satmex 8 satellite on the 4199.4 and 4198.6 MHz channels (both right-hand circular polarization). The mission duration for the TT&C operations requested here is no more than 10 days after launch. Lockheed Martin hereby requests a 30-day STA term commencing March 24, 2013 to enable it to accommodate any slippage in the launch date without the need for additional authority from the Commission.

The transmit frequencies Lockheed Martin seeks to use for the AsiaSat-7 TT&C support operations are not included in Lockheed Martin's former license for Call Sign E7541 and current application for the C-band antenna in File No. SES-LIC-20081103-01443 (also under Call Sign E7541). Lockheed Martin notes, however, that the Commission has previously granted Lockheed Martin STA requests for launch and early-operations TT&C support using its Carpentersville, New Jersey earth station facilities. Most recently, the Commission authorized Lockheed Martin to perform launch support operations for the Vinasat-2 satellite in May 2012. *See e.g.,* Request of Lockheed Martin Corp. for STA to support LEOp TT&C Functions of JCSAT-13 and Vinasat-2, File No. SES-STA-20120427-00403. *See also,* Request of Lockheed

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[1] The pending application in File No. SES-LIC-20081103-01443, under Call Sign E7541, was filed on a provisional basis to replace Lockheed Martin's inadvertently non-renewed license for a 14.2 meter C-band antenna at the Carpentersville, NJ site, also under Call Sign E7541. Lockheed Martin's petition to reinstate the license for Call Sign E7541, as well as the "replacement" application it filed in the alternative under File No. SES-LIC-20081103-01443, are pending.

[2] The test transmissions that would begin on or about March 24, 2013 would occur over a period of approximately two days. During these tests, the earth station would not be communicating with any satellite; instead, the transmissions will be made with the antenna at zenith to verify RF functionality.

Martin Corp. for STA to support LEOp TT&C Functions of AsiaSat-7, File No. SES-STA-20111108-01341; Request of Lockheed Martin to support LEOp TT&C Functions of QuetzSat-1, File No. SES-STA-20110919-01105. Lockheed Martin's pending license application in File No. SES-LIC-20081103-01443 included a radiation hazard study for this frequency range that Lockheed Martin hereby incorporates by reference. *See* Exhibit 28 to Application of Lockheed Martin Corporation, File No. SES-LIC-20081103-01443.

Lockheed Martin's proposed transmissions on the 5926.5 MHz and 6426.5 MHz transmit frequencies will use the emission designators for telecommand functions that are proposed in the pending license application, or will use carriers that do not exceed the highest e.i.r.p., e.i.r.p. density, and bandwidth prescribed in the application for the telecommand carriers. When no commands are being sent, a CW carrier that is within the emission envelope proposed in Lockheed Martin's application, as amended, would be present. *See* File No. SES-AMD-20081219-01664, at Schedule B. The information in the Schedule B portion of Lockheed Martin's pending application in File No. SES-LIC-20081130-01443, as amended, is hereby incorporated by reference. Lockheed Martin notes that it is possible that during an unexpected emergency with the satellite, the power levels proposed for the earth station in the 2008 application as amended may need to be exceeded to help recover the satellite. Under these extremely unlikely circumstances, Lockheed Martin will make every effort to coordinate such operations with affected users, and will take all reasonable steps to swiftly eliminate any harmful interference caused. Lockheed Martin fully understands that all of its proposed launch and early-operations TT&C support for the Satmex 8 launch will be on a strictly non-harmful interference, non-protected basis.

Lockheed Martin has requested from Comsearch a temporary frequency coordination that covers the entire proposed STA window (March 24, 2013 through July 4, 2013) for operations on the Satmex 8 TT&C frequencies from its Carpentersville earth station facility. The Prior Coordination Notice for this coordination is attached to this Exhibit A. Lockheed Martin expects the final report imminently, and will forward that to the Commission to supplement this STA request as soon as the report is delivered.

Lockheed Martin believes that the limited operations it proposed in support of the launch of Satmex 8 – operations Lockheed Martin and the satellite operator will coordinate in advance with any and all potentially affected entities that operate communications systems in compliance with the Table of Frequency Allocations during the limited period of use – are required in the public interest. Lockheed Martin's earth station will be part of a global network of control facilities that will be used to position the satellite as it progresses from transfer orbit to its final location. The safe and orderly use of the entire geostationary orbital resource and protection of the hundreds of satellites from the U.S. and other countries that operate there depends in no small part on ensuring that the Satmex 8 satellite is controlled while over North America, and Lockheed Martin's earth station thus will serve a limited-duration, but nonetheless vital function.

Lockheed Martin designates Michael Usarzewicz to be the contact person that will be available whenever transmission to, or reception from, Satmex 8 is to occur through the subject earth station. Mr. Usarzewicz can be reached at the following cell phone number: (609)-865-2658 and/or station number: (908) 859-4050.

The antenna to be used for operations under the proposed STA is already built. It is the same antenna that was previously authorized under Call Sign E7541 and that is now the subject of the pending application and reinstatement request described in Note 1 above.

In sum, Lockheed Martin requests authority to operate its Carpentersville, NJ C-band earth station antenna to provide critical TT&C services during the launch and early operations phase of the Satmex 8 satellite, for a term of 30 days – including two days for calibration testing, and a 10 day window between March 24, 2013 and April 23, 2013 for TT&C support operations.

EXHIBIT A

19700 Janelia Farm Boulevard
Ashburn, VA 20147
(703) 726-5500
Fax (703) 726-5600
http://www.comsearch.com

COMSEARCH®

March 13, 2013

****
*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***

Re: LOCKHEED MARTIN CORPORATION
Carpentersville, New Jersey
Temporary Transmit-Only Earth Station
Operation Dates: 03/24/2013 - 07/04/2013
Job Number: 130313COMSJC01

Dear Frequency Coordinator:

On behalf of Lockheed Martin Corporation, we are forwarding the attached coordination data for temporary operations from the transmit-only earth station located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

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:	03/13/2013
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)726-5660 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)

Transmit 6.1 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5660 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)

Transmit 6.1 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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

LERMAN SENTER PLLC

WASHINGTON, DC

STEPHEN D. BARUCH
202.416.6782
SBARUCH@LERMANSENTER.COM

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.

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
Webline 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

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)

		Transmit 6.1 GHz		
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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

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)

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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

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

DATED: March 19, 2013

LERMAN SENTER PLLC

WASHINGTON, DC

STEPHEN D. BARUCH
202.416.6782
SBARUCH@LERMANSENTER.COM

March 22, 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 corrects an inadvertent error that was presented in the 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. Specifically, an incorrect frequency for uplink transmissions was included in the narrative portion of Exhibit A to the STA request. The proper uplink frequency is 6424.5 MHz, rather than 6426.5 MHz. Lockheed Martin emphasizes that the coordination report submitted into the file of the STA request on March 20, 2013 correctly assesses the 6424.5 MHz uplink frequency and 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. Thus, no additional coordination is required.

Lockheed Martin regrets the error, and thanks the Commission's staff for bringing the now-resolved discrepancy to its attention.

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 (by email): Paul Blais
Trang Nguyen
Hsing Liu
Towanda Bryant