Exhibit A
Lockheed Martin Corporation
Carpentersville, NJ Earth Station
Call Sign E7541
STA Request for
LEOp TT&C Operations
September 2011

Description

Lockheed Martin Corporation ("Lockheed Martin") requests special temporary authority ("STA") to operate its Carpentersville, New Jersey Ku-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 QuetzSat-1 satellite that will be operated by QuetzSat, a Mexican satellite operator. QuetzSat-1 is currently scheduled for launch on September 29, 2011, and Lockheed Martin intends to perform test transmissions in preparation for the launch on or about September 27, 2011.[2] To the extent required to meet this timetable, Lockheed Martin requests expedited treatment of the instant STA request and action by September 26, 2011.

Lockheed Martin specifically seeks authority to transmit on the 17797 MHz and 17793 MHz telecommand uplink channels (both RHCP). The earth station would receive telemetry signals from the QuetzSat-1satellite on the 12.6985 GHz, 12.6945 GHz, 12.692 GHz and 12.693 GHz channels (all RHCP). 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 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 QuetzSat-1 TT&C support operations are not included in Lockheed Martin's former license for Call Sign E920702 and current application for the Ku-band antenna in File No. SES-LIC-20081103-01443 (under Call Sign E7541). Lockheed Martin notes, however, that the Commission previously granted Lockheed Martin STA requests for launch and early-operations TT&C support using frequencies in the general frequency ranges sought in the instant STA request. Most recently, the Commission authorized Lockheed Martin to perform launch support operations for the BSAT-3c satellite in July 2011 using a telecommand frequency at one edge of the 17.3-17.8 GHz band and a telemetry frequency at the edge of the 11.7-12.7 GHz range. *See* Request of Lockheed Martin Corp. for STA to support LEOp TT&C Functions of BSAT-3c, File No. SES-STA-20110504-

[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 Ku-band antenna at the Carpentersville, NJ site under Call Sign E920702. Lockheed Martin's petition to reinstate the license for Call Sign E920702, as well as the "replacement" application it filed in the alternative under File No. SES-LIC-20081103-01443 and Call Sign E7541, are pending.

[2] The test transmissions that would begin on or about September 27, 2011 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.

00547. *See also*, Request of Lockheed Martin Corp. for STA to Support LEOp TT&C Functions for EchoStar-7, File No. SES-STA-20020208-00160 (STA to support launch and early operations TT&C functions for EchoStar-7 satellite using 17.3-17.8 GHz band frequencies for Earth-to-space telecommand transmissions) ("EchoStar-7 TT&C STA"). The EchoStar-7 TT&C STA request included a radiation hazard study for this frequency range that Lockheed Martin hereby incorporates by reference. *See* EchoStar-7 TT&C STA, at Attachment 3.

Lockheed Martin's proposed transmissions on the 17797 MHz and 17793 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 QuetzSat-1 launch will be on a strictly non-harmful interference, non-protected basis.

Lockheed Martin has secured a temporary frequency coordination that covers the entire proposed STA window (September 27, 2011 through October 26, 2011) for operations on the QuetzSat-1 TT&C frequencies from its Carpentersville earth station facility. The report is attached to this Exhibit A.

Lockheed Martin believes that the limited operations it proposed in support of the launch of QuetzSat-1 – 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 QuetzSat-1 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, QuetzSat-1 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 E920270 and that is now the subject of the pending application and reinstatement request described in Note 1 above, and, as noted, has been authorized for use on an STA-basis to support other satellite launches.

In sum, Lockheed Martin requests authority to operate its Carpentersville, NJ Ku-band earth station antenna to provide critical TT&C services during the launch and early operations phase of the QuetzSat-1 satellite, for a term of 30 days – including two days for calibration testing, and a 10 day window between September 29 and October 26, 2011 for TT&C support operations.

EXHIBIT A

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: 09/25/2011 – 10/31/2011

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 September 15, 2011.

Company

ABC, Inc. - WPVI-TV
ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY
ART Licensing Corp.
AT&T CORP
American Broadcasting Companies, Inc.
BUSINESS INFORMATION GROUP, INC.
Boeing Company
Borough of Fort Lee, New Jersey
Borough of Sayreville
Business Only Broadband, LLC
CABLEVISION LIGHTPATH
CAMP HILL SCHOOL DISTRICT
CAMPUS TELEVIDEO
CECIL COUNTY PUBLIC SCHOOLS
COLUMBIA UNIVERSITY IN THE CITY NEW YORK
CRISPUS ATTUCKS ASSOCIATION
Cape May County, MIS Department
Carlisle Area School District
City of Bethlehem
City of Jersey City
City of Jersey City, Police Department
Clearwire Spectrum Holdings III, LLC
Commissioners of Caroline County
Conterra Ultra Broadband, LLC
County of Bergen, Bergen Cnty Police Dep
County of Hunterdon
Cumberland County, New Jersey
Cumberland Valley School District
DOVER AREA SCHOOL DISTRICT
DREXEL UNIVERSITY
DREXEL UNIVERSITY

Company (Continued)

Delmarva Power & Light Company
Diocese of Camden
ECW Wireless, LLC
East Pennsboro Area School
Eastern Lancaster County School District
Enoch Pratt Free Library
Entergy Nuclear Indian Point 2, LLC
FIRST BOSTON CORPORATION
FORDHAM UNIVERSITY(WFUV)
Federal Communications Commission
Federal Home Loan Bank of New York
FiberTower Network Services Corp.
Franklin County Dept. of Emergency Servi
Freehold Township Police Department
Greenwich, Town of (CT)
HALIFAX AREA SCHOOL DISTRICT
HISPANIC INFORMATION AND TELECOMM NETWRK
High Voltage Communications LLC
Hoboken Fire Department
Hopewell Radiology Group
Hotwire Communications
Hudson County MIS Department
IDT Corporation - IDT Spectrum
J & R ELECTRONIC INC
Jamaica Hospital Medical Center
Jefferson Microwave, LLC
LANCASTER GENERAL HOSPITAL
LAWRENCE SCHOOL DISTRICT
Last Mile Inc.
M-Wave Networks LLC
MINEOLA UNION FREE SCHOOL DISTRICT
MONTGOMERY, McCRACKEN, WALKER & RHOADS
MPX, Inc.
MTA - Long Island Railroad
Meridian Microwave
Metro Networks Communications, Inc.
Microwave Satellite Technologies, Inc.
Millennium Shore License Holdco, LLC
Monmouth County, NJ
NBC TELEMUNDO LICENSE CO.
NBC Telemundo License Co.
NEW JERSEY PUBLIC BROADCASTING AUTHORITY
NEW JERSEY STATE DEPT OF TRANSPORTATION
NEW YORK CITY HOUSING AUTHORITY
NEW YORK CITY DEPT OF INFO TECH & TELECO
NEW YORK CITY POLICE DEPARTMENT
NEW YORK CITY POLICE DEPARTMENT
NEW YORK POLICE DEPARTMENT - TARU
NEW YORK UNIVERSITY
NEXTEL COMM. OF THE MID-ATLANTIC
NEXTEL OF NEW YORK, INC

Company (Continued)

NW TECHNOLOGIES, LLC
NYU MEDICAL CENTER
Nassau County Government
Nassau County Police Department
Netrepid, Inc.
New Jersey Telcomm
New York Health and Hospitals Corp/North
New York Methodist Hospital
New York Power Authority
New York Presbyterian Hospital
New York SMSA Limited Partnership
New York State Police
Northern York County School District
Northrop Grumman Information Technology
OCEAN, COUNTY OF
Ocean, County of-Div of Wireless Tech.
Open Range Communications
PENNSYLVANIA MICROWAVE NETWORK INC.
PPL Telecom, LLC.
Philadelphia, City of
Pitt Power
Plymouth Township Police Department
Port Authority of New York & New Jersey
Pottsville Area School District
RCN Telecom Services, LLC
READING HOSPITAL & MEDICAL CENTER
Red Rose Transit Authority
Rutgers, The State University of N.J.
SECOM NET
SHIPPENSBURG AREA SCHOOL DISTRICT
SONSHINE FAMILY TELEVISION CORPORATION
SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH
SPEAR LEEDS AND KELLOGG INC
ST. LUKE'S HOSPITAL
SUSQUEHANNA TOWNSHIP SCHOOL DISTRICT
Sachem Central School District
Sesame Workshop
Sprint Spectrum LP DBA Sprint PCS
Sprint Spectrum, LP
St. Joseph Medical Center
St. Lukes Cornwall Hospital
Steelton-Highspire School District
T-Mobile License LLC
TELEMARK NETWORKS, INC
THE BROOKLYN HOSPITAL CENTER
THOMAS OLSZEWSKI, INC
TRIBUNE TELEVISION COMPANY
Telecom Transport Management, Inc
The Goldman Sachs Group, Inc.
Total Recall Corp
Towerstream Corp

Company (Continued)

ULTRAVISION INC
University of Medicine & Dentistry of NJ
Verizon New Jersey, Inc.
WDAS LICENSE LIMITED PARTNERSHIP
WESTCHESTER, COUNTY OF
WINEMILLER COMMUNICATIONS, INC.
WLIG TV INC
WXTU LICENSE LIMITED PARTNERSHIP
WYCKOFF HEIGHTS MEDICAL CENTER
Webline Holdings LLC
Wireless Backhaul Infrastructure, LLC
York County Dept of Emergency Services
York Water Co
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:	09/19/2011
Job Number:	110915COMSJC02

Administrative Information

Status	TEMPORARY (Operation from 09/25/2011 to 10/31/2011)
Call Sign	TEMP10
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	Analog and Digital
Satellite Arc	18° W to 132° West Longitude
Azimuth Range	112.8° to 246.9°
Corresponding Elevation Angles	15.9° / 16.2°
Antenna Centerline (AGL)	9.14 m / 30.0 ft

Antenna Information — Transmit

Manufacturer	TIW
Model	14.2 Meter
Gain / Diameter	63.9 dBi / 14.2 m
3-dB / 15-dB Beamwidth	0.10° / 0.20°

		16K0G2D - 72K0G2D	
Max Available RF Power	(dBW/4 kHz)	27.0	20.4
	(dBW/MHz)	33.0	33.0
Maximum EIRP	(dBW/4 kHz)	90.9	84.3
	(dBW/MHz)	96.9	96.9

Interference Objectives:	Long Term	-151.0 dBW/4 kHz	20%
	Short Term	-128.0 dBW/4 kHz	0.0025%

Frequency Information — Transmit 18.0 GHz

Emission / Frequency Range (MHz)	16K0G2D - 72K0G2D / 17793.0
	16K0G2D - 72K0G2D / 17797.0
Max Great Circle Coordination Distance	227.8 km / 141.6 mi
Precipitation Scatter Contour Radius	514.9 km / 319.9 mi

COMSEARCH

Earth Station Data Sheet

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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 18.0 GHz
Interference Objectives: Long Term	-151.0 dBW/4 kHz 20%
Short Term	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	27.0 (dBW/4 kHz)

Transmit 18.0 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	3.54	112.22	-10.00	136.79
5	3.44	107.35	-10.00	138.43
10	4.05	102.50	-10.00	129.24
15	4.33	97.62	-10.00	125.72
20	3.97	92.72	-10.00	129.61
25	3.25	87.83	-10.00	141.81
30	3.56	82.95	-10.00	136.32
35	3.60	78.07	-10.00	135.80
40	3.62	73.19	-10.00	135.29
45	3.66	68.31	-10.00	134.70
50	3.42	63.48	-10.00	138.79
55	3.51	58.62	-10.00	137.19
60	3.29	53.83	-10.00	141.13
65	3.08	49.07	-10.00	145.05
70	3.20	44.28	-9.15	146.29
75	3.00	39.61	-7.95	155.45
80	2.76	35.05	-6.62	166.65
85	2.54	30.60	-5.14	177.68
90	2.27	26.37	-3.53	190.76
95	2.23	22.30	-1.71	199.92
100	2.55	18.41	0.38	203.16
105	2.55	15.42	2.29	212.87
110	2.11	14.08	3.29	227.83
115	2.43	13.66	3.61	222.47
120	2.11	15.55	2.21	222.13
125	2.45	18.11	0.55	206.35
130	2.22	21.59	-1.36	201.92
135	2.16	24.80	-2.86	196.04
140	2.65	27.42	-3.95	180.90
145	2.25	30.50	-5.11	183.85
150	2.21	33.07	-5.99	180.76
155	1.91	35.58	-6.78	184.09
160	2.13	37.30	-7.29	176.69
165	2.60	38.39	-7.61	165.41
170	2.41	39.69	-7.97	167.83
175	1.90	40.87	-8.29	177.62
180	1.90	41.11	-8.35	177.35
185	1.85	40.92	-8.30	178.80

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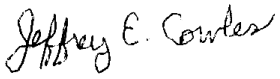
Coordination Values	**CARPENTERSVILLE, NJ**
Licensee Name	LOCKHEED MARTIN CORPORATION
Latitude (NAD 83)	40° 38' 39.4" N
Longitude (NAD 83)	75° 11' 27.6" W
Ground Elevation (AMSL)	54.86 m / 180.0 ft
Antenna Centerline (AGL)	9.14 m / 30.0 ft
Antenna Model	TIW 14.2 Meter
Antenna Mode	Transmit 18.0 GHz
Interference Objectives: Long Term	-151.0 dBW/4 kHz 20%
Short Term	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	27.0 (dBW/4 kHz)

Transmit 18.0 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.24	40.83	-8.27	195.22
195	1.36	39.56	-7.93	193.37
200	2.31	37.14	-7.25	173.18
205	1.76	35.72	-6.82	187.92
210	1.78	33.43	-6.10	190.47
215	2.34	30.43	-5.08	182.07
220	2.98	27.15	-3.85	174.58
225	4.04	23.36	-2.21	161.45
230	4.93	19.56	-0.29	156.80
235	4.30	16.77	1.39	174.84
240	4.35	13.69	3.59	185.26
245	3.60	12.73	4.38	202.21
250	2.38	14.15	3.23	221.66
255	2.22	16.10	1.83	217.69
260	2.59	18.79	0.15	201.35
265	3.08	22.21	-1.66	182.76
270	2.75	26.53	-3.59	180.51
275	2.58	30.96	-5.27	176.36
280	2.85	35.38	-6.72	164.24
285	3.20	39.91	-8.03	151.10
290	3.81	44.49	-9.21	135.29
295	4.44	49.15	-10.00	124.38
300	5.32	53.85	-10.00	114.61
305	5.47	58.70	-10.00	113.34
310	5.49	63.59	-10.00	113.15
315	5.43	68.49	-10.00	113.69
320	4.59	73.44	-10.00	122.50
325	3.78	78.36	-10.00	132.61
330	3.36	83.25	-10.00	139.98
335	3.12	88.13	-10.00	144.25
340	2.98	93.00	-10.00	147.02
345	3.16	97.87	-10.00	143.55
350	3.35	102.75	-10.00	140.07
355	3.44	107.62	-10.00	138.48

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
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DATED: September 19, 2011