3060-0678 Approved by OMB

# APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: Carpentersville TT&C LEOP STA for Express AM4R - April 2014

| 1. Applicant Name: DBA Name: Street: City: City: | n in the second | Lockheed Martin Corporation  Fax Numb 2121 Crystal Drive  Suite 100  Arlington  State:  USA  Zipcode: | Phone Number: Fax Number: E-Mail: State: Zipcode: | 703–413–5970<br>703–413–5908<br>jennifer.warren@lmco.com<br>VA |  |
|--|---|---|---|--|--|
| Attention:                                       |   | Ms Jennifer Warren  |   |  |  |
|  |   |   |   |  |  |
|  |   |   |   |  |  |



Applicant: Lockheed Martin Corporation

Call Sign: E7541

File No.: SES-STA-20140425-00315 Special Temporary Authority (STA)

Lockheed Martin Corporation is granted, under the following conditions, STA for a 30-day period commencing on May 11, 2014 to provide C-band telemetry, tracking and control (TT&C) functions during the LEOP of operation for the Russian Satellite Communications Company licensed Express AM4R satellite at geographical coordinates 40 deg 38' 39.1 "N.L. and 075 deg 11' 27.8" W.L. at Carpentersville, New Jersey while the satellite is in transfer orbit on the way to its final geostationary orbital location 80 deg. E.L. The launch date of Express AM4R is estimated on May 16, 2014.

- 1. The TT&C operations will be transmitted on 6535.0 MHz frequency (Earth-to-space) and received telemetry signals on 4199.5 MHz with 61.7 dBW maximum EIRP within the coordinated emission and power limits.
- 2. All operations shall be on an unprotected and non-harmful interference basis, Lockheed Martin Corporation, E7541, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
- 3. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.*, Lockheed Martin Corporation must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.
- 4. In the event of any harmful interference under this grant of special temporary authority, Lockheed Martin Corporation must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
- 5. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Lockheed Martin Corporation's risk.
- 6. 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.



| Company:         Lerman Senter PLLC         Fax Number:         (202) 293–7783           Street:         2000 K Street, NW         E-Mail:         dkeir@lermansenter.com           Suite 600         State:         DC           Country:         USA         Zipcode:         20006         -1809           Attention:         David S. Keir         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         4a. Is a fee submitted with this application?           Feeternee File Number of Submission ID         4a. Is a fee submitted with this application?         Acceptance explain.           Operchlete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).         Acceptance explain.           Operchletesse explain):         Ab. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station         Acceptance of Control of CGX - Fixed Satellite Transmit/Receive Earth Station           S. Type Request         Acceptance of Control of CGX - Fixed Satellite Transmit/Receive Earth Station         Acceptance of CGX - Fixed Statellite Transmit/Receive Earth Station           Acceptance of CGX - Fixed Statellite Transmit/Receive Earth Station         Acceptance of CGX - Fixed Statellite Transmit/Receive Earth Station         Acceptance Transmit Station           Acceptance of CGX - Fixed Statellite Transmit/Receive Earth Station </th <th>Company:<br/>Street:</th> <th>David S. Keir</th> <th>Phone Number:</th> <th>(202) 429–8970</th>   | Company:<br>Street:                       | David S. Keir               | Phone Number:                        | (202) 429–8970                    |
|--|---|-----------------------------|--------------------------------------|-----------------------------------|
| Street: 2000 K Street, NW Suite 600 City: Washington State: DC Country: USA Attention: David S. Keir 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 rel pplication. Please enter only one.) 3. Reference File Number or Submission ID 4a. Is a fee submitted with this application? 5. Other(please explain): b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station c. Type Request Outset Drive to Grant City Carpentersville City Carpentersville City Carpentersville City Carpentersville Submission ID Country: Date Country: USA Zipocde: 20006 – 1809 Country: Date Country: Nequested Use Prior Date Country: Octobre Country: Country octobre Country City Carpentersville Submission ID Change Station Location Country: Carpentersville City Carpentersville Submission ID Country: Requested Use Prior Date City Carpentersville Submission ID Country: Requested Use Prior Date City Carpentersville Submission ID Country: Requested Use Prior Date City Carpentersville Submission ID Country: Requested Use Prior Date City Carpentersville Submission ID Captor Country: Requested Use Prior Date City Carpentersville Submission ID Captor Country: Requested Use Prior Date Country: Requested Use Prior Date Country: National Submission ID Submission ID Captor Country: Requested Use Prior Date Country: National Submission ID Submission ID Captor Country | Street:                                   |                             | Fax Number:                          | (202) 293–7783                    |
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| Country: USA Attention: David S. Keir Relationship: Legal Counsel  Attention: David S. Keir Relationship: Legal Counsel  Attention: David S. Keir 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 relapplication. Please enter only one.)  A. Is a fee submitted with this application?  If Your application is related to an application?  A. Is a fee submitted with this application?  Governmental Entity O Noncommercial educational licensee  Other(please explain):  A. Use Prior to Grant  O Use Prior to Grant  Citycapentersville  S. Latitude  S. Latitude  A Latitude  CityCapentersville  B. Latitude  CityCapentersville  B. Latitude  Country  Cou  |   | Suite 600                   |                                      |                                   |
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| 8. Latitude (dd mm ss.s h) 40 38 39.1  | . Requested Use Prior 05/11/2014          | Date                        |                                      |                                   |
|  | . CityCarpentersville                     |                             | 8. Latitude (dd mm ss.s h)           | 38 39.1                           |

|  |   | Lockheed Martin Corporation requests Special Temporary Authority for a 30-day period,  | 2  |  | WILETILET FALSE STATEMENTS MADE ON THIS FORM ARE DINISHABLE BY FINE AND / OP IMPRISONMENT  | (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).  | 11. Please supply any need attachments.  Attachment 2: Coordination Report Attachment 3:  Attachment 1: Attachment (4-2014) Attachment 2: Coordination Report 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 Corporation requests Special Temporary Authority for a 30-day period, commencing May 11, 2014, to use the C-band antenna at its Carpentersville, NJ earth station (Call Sign E7541) to support post-launch/early-orbit operations TT&C for the Express AM4R satellite, which is expected to be launched on or about May 16, 2014. See 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.  14. Name of Person Signing Jennifer Warren  WILL FILL FALSE STATEMENTS MADE ON THIS FORM ARE PLANISHARDE BY FINE AND, OR IMARKET   |
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## 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 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 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 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.

## 12. Description

May 11, 2014, to use the C-band antenna at its Carpentersville, NJ earth station (Call Sign E7541) Lockheed Martin Corporation requests Special Temporary Authority for a 30-day period, commencing to support post-launch/early-orbit operations TT&C for the Express AM4R satellite, which is expected to be launched on or about May 16, 2014. See Attachment. Lockheed Martin Corporation Carpentersville, New Jersey Earth Station STA April 2014 Attachment Page 1 of 3

## **Description of Operations and Public Interest Statement**

Lockheed Martin Corporation ("Lockheed Martin") requests special temporary authority ("STA") to operate its Carpentersville, New Jersey fixed earth station (*see* File No. SES-LIC-20081103-01443, as amended)<sup>1</sup> to provide telemetry, tracking and control ("TT&C") functions during the post-launch and early orbit phases ("LEOP") of operation for the Express AM4R satellite. AM4R is destined for operation at the 80° East longitude orbital location (80° E.L.), and is currently scheduled for launch on May 16, 2014 aboard a Proton launch vehicle from the Baikonur facility in Kazakhstan.<sup>2</sup> Accordingly, Lockheed Martin would likely need to begin test transmissions in preparation for the launch on or about May 11, 2014.<sup>3</sup>

## 1. Requested STA Operations

Lockheed Martin specifically seeks authority to transmit telecommand signals at the center frequency 6535 MHz for in transit telecommand communications (Earth-to-space)<sup>4</sup>, and to receive telemetry signals from the satellite (space-to-Earth) at the 4199.5 MHz center frequency. Lockheed Martin is requesting the duration of this STA to be a total of thirty (30) days from May 11, 2014 to cover any slippage in the anticipated dates of the various phases of operation; it nonetheless expects that all Carpentersville operations in support of the launch will be completed within ten (10) days after the AM4R satellite is launched.

Lockheed Martin's proposed transmissions will use total input power and emissions for telecommand that will fall below the highest input power, EIRP, EIRP density, and bandwidth prescribed for the telecommand carriers in its former FCC license. When no commands are being sent, a CW carrier that is within the emission of Lockheed Martin's E7541 operation would be present. *See*, *e.g.*, File No. SES-AMD-20081219-01664, at Schedule B. The

<sup>&</sup>lt;sup>1</sup> The pending application in File No. SES-LIC-20081103-01443, under Call Sign E7541, was filed on a provisional basis while Lockheed Martin's license for a 14.2 meter Ku-band antenna at the Carpentersville, NJ site (under Call Sign E920702) remains the subject of a pending petition for reinstatement. 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, both remain pending.

<sup>&</sup>lt;sup>2</sup> See Russian Satellite Communications Company Press Release, "Express-AM4R, a communications and broadcasting satellite, is now at Baikonur Cosmodrome," dated April 21, 2014, available at <a href="http://eng.rscc.ru/100/177/482.html">http://eng.rscc.ru/100/177/482.html</a> (last visited April 24, 2014).

<sup>&</sup>lt;sup>3</sup> The test transmissions that would begin on or about May 11<sup>th</sup> would occur over a period of approximately two to three 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.

<sup>&</sup>lt;sup>4</sup> This frequency is in the extended C-band allocated to the Fixed-Satellite Service on a co-primary basis with the terrestrial Fixed service, and therefore subject to prior coordination with other users. Operations have been coordinated in advance with all potentially affected entities that operate communications systems in compliance with the Table of Frequency Allocations and a coordination report is included as part of this application.

Lockheed Martin Corporation
Carpentersville, New Jersey Earth Station STA
April 2014
Attachment
Page 2 of 3

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. All of Lockheed Martin's proposed TT&C operations in support of the AM4R launch will be on a strictly non-harmful interference, non-protected basis.

The antenna to be used for this STA is already built. It is the same antenna that was authorized under Call Sign E7541 and that is now the subject of the pending request described in Note 1 above, and has been used during the pendency of that request on an STA-basis to support many other satellite launches. See, e.g., Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of Astra 5-B, SES-STA-20140310-00134 (granted Mar. 14, 2014); Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of ABS-2, SES-STA-20140103-00005 (granted Jan. 28, 2014); Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of SES-8, SES-STA-20131101-00922 (granted Nov. 18, 2013); Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of Eutelsat 25B, SES-STA-20130809-00708 (granted Aug. 26, 2013). For this reason, Lockheed Martin does not provide a new analysis of non-ionizing radiation for the antenna, or any of the detailed transmission/reception parameters for the signals. Instead, Lockheed Martin incorporates by reference the radiation hazard study and Schedule B information that were included with the November 2008 modification application in File No. SES-LIC-20081103-01443, as amended.

Lockheed Martin designates Michael Usarzewicz to be the contact person that will be available whenever transmission to, or reception from, AM4R 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.

## 2. Grant of the Requested Authority Will Serve the Public Interest

Lockheed Martin believes that the limited operations it proposes in support of the launch of the AM4R satellite are required in the public interest. Lockheed Martin understands that the AM4R satellite is licensed to the Russian Satellite Communications Company and will be located in geostationary orbit at 80°E.L. for the provision of communications services to Russia and the CIS countries. Lockheed Martin's Carpentersville earth station will be part of a global network of control facilities that will be used solely to position the satellite as it progresses from transfer orbit to its final location. No end user service will be provided within the United States at any time, and the AM4R satellite's destination orbital location at 80° E.L. does not afford visibility from the Carpentersville location. The safe and orderly use of the entire geostationary

<sup>&</sup>lt;sup>5</sup> The spacecraft will be controlled throughout the launch and transfer orbit phases by Astrium (France), which will manage the LEOP portion of the mission from its network control center in Toulouse, France.

<sup>&</sup>lt;sup>6</sup> Lockheed Martin notes that no waiver of the Commission's application rules with respect to non-U.S. satellites (*see* 47 C.F.R. §§ 25.114 and 25.137) is required in this instance, as the requested operations will not "serve the United States" market, but are instead intended only to assist in the launch and transfer

Lockheed Martin Corporation Carpentersville, New Jersey Earth Station STA April 2014 Attachment Page 3 of 3

orbital resource and protection of the hundreds of satellites licensed by the U.S. and other countries that operate there depends in no small part on ensuring that the AM4R satellite is controlled while over North America; Lockheed Martin's earth station thus will serve a vital function.<sup>7</sup>

\* \* \* \* \*

As outlined above, Lockheed Martin requests authority to operate its Carpentersville, NJ earth station antenna to provide critical TT&C services during the launch and early operations phase of the AM4R satellite, for a term of 30 days commencing May 11, 2014.

orbit phases for deployment of a new satellite, which incidentally will also serve only points that lie outside the United States. Under such circumstances, the Commission has not required any submission pursuant to the application rules governing non-U.S. satellites, nor otherwise required any waiver showing. *See, e.g,* Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of Amazonas-3, File No. SES-STA-20130122-00078 (granted Feb. 4, 2013); *cf. EchoStar Satellite Operating Company*, 28 FCC Rcd 4229, 4233 (¶ 12) (IB 2013) ("ESOC will operate feeder links and TT&C earth stations within the United States, but we do not interpret these very limited technical operations, under STA, as constituting "DBS service" to the United States").

<sup>&</sup>lt;sup>7</sup> Lockheed Martin also notes that the Commission has recently granted this same authority with respect to the AM4R launch to Inmarsat Hawaii Inc. for its C-band Earth station in Paumalu, Hawaii (Call Sign KA25). *See* FCC File No. SES-STA-20140205-00065 (granted April 15, 2014); FCC Public Notice, "Satellite Communications Services Information re: Actions Taken," Report No. SES-01641, at 8 (released April 23, 2014).

## 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: 04/04/2014 - 07/10/2014

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 February 12, 2014.

## Company

Egan LLC

256Q Networks AWC Networks Appalachian Broadcasting Atlantic City Electric Company Auburn Data Systems, LLC Bergen, County of Berks County Department of Emergency Ser Bucks County Dept. of Emergency Communic Carbon, County of 911 Center Chester, County of China Cat Productions LLC City of Bethlehem, Pennsylvania Commonwealth of Pennsylvania Commonwealth of Pennsylvania-Radio Proj. Converge Towers LLC Coralinks County of Burlington, Public Safety Cntr County of Camden County of Hunterdon County of Salem County of Warren, NJ DAUPHIN COUNTY EMERGENCY MANAGEMENT Delaware County (PA) Emergency Services **Delaware Division of Communications** Delmarva Power & Light Company ECW Wireless, LLC EG Broadcast Newco Corp Eastern MLG LLC Eastern Pennsylvania EMS Council

## Company (Continued)

Electric Railroad, LLC

Exelon Generation Company, L.L.C

FELHC, Inc.

Federal Communications Commission

Fundamental Broadcasting LLC

Gloucester, County of

High Voltage Communications LLC

Jefferson Microwave, LLC

Kreider Networks

Kryptic Technologies

LACKAWANNA, COUNTY OF

LEBANON COUNTY OF

Lancaster County of

Lehigh, County of

Luzerne County Department of Public Sfty

MONMOUTH, COUNTY OF

Mahwah Communications

Mifflin Mobilecom

Monroe County Control Center (PA)

Montgomery County Of

Morris, County of

NBC Telemundo License LLC

**National Tower Company** 

New Cingular Wireless PCS LLC-DE/NH/RI

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 City Transit Authority

New York, City of

New York, City of

Norfolk Southern Railway

Northumberland, County of

OCEAN, COUNTY OF

Ocean, County of - Div of Wireless Tech.

Orange and Rockland Utilities, Inc.

PEG Bandwidth

PENNSYLVANIA TURNPIKE COMMISSION

PIKE COUNTY COMMISSIONERS

**PSEG Services Corporation** 

Peco Energy Company

Pennsylvania Commonwealth State Police

Pitt Power

Port Authority of New York & New Jersey

Qoncept Holdings LLC

SCHUYLKILL, COUNTY OF

SCRANTON TIMES, LP

SCS Networks

SCTF NET

## Company (Continued)

SECOM NET SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH STATE OF NEW JERSEY - OFFICE OF PUBLIC SW Networks Standard Backhaul Communications LLC State of Maryland, MIEMSS State of New York, Div of State Police TRF SERVICES LLC Texas Eastern Communications, LLC Thought Transmissions, LLC Townsquare Media Monmouth-Ocean License Transcontinental Gas Pipeline Corp. Triangle Communications, Inc. Turtle Networks 6559 Turtle Networks 6562 WAYNE COUNTY PENNSYLVANIA Webline Holdings LLC White Rabbit Networks Wireless Internetwork LLC World Class Wireless LLC Zango LLC 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:

02/23/2014

Job Number:

140212COMSJC02

Administrative Information

Status

TEMPORARY (Operation from 04/04/2014 to 07/10/2014)

Call Sign Licensee Code TEMP07 RCASTR

Licensee Code Licensee Name

Lockheed Martin Corporation

**Site Information** 

**CARPENTERSVILLE, NEW JERSEY** 

Venue Name

Latitude (NAD 83) Longitude (NAD 83) 40° 38' 39.4" N 75° 11' 27.6" W

Climate Zone Rain Zone A 2

Ground Elevation (AMSL)

54.86 m / 180.0 ft

**Link Information** 

Satellite Type Mode

Geostationary
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 Antenna Centerline (AGL)

15.9° / 16.2° 9.14 m / 30.0 ft

**Antenna Information** 

**Transmit** 

Manufacturer

TIW

Model Gain / Diameter 14.2 Meter 57.5 dBi / 14.2 m

3-dB / 15-dB Beamwidth

0.20° / 0.50°

Max Available RF Power

(dBW/4 kHz)

4.2

(dBW/MHz)

28.2

Maximum EIRP

(dBW/4 kHz) 61.7 (dBW/MHz) 85.7

(dBW)

85.0

Interference Objectives:

Long Term

-154.0 dBW/4 kHz 20%

Short Term

-131.0 dBW/4 kHz 0.0025%

**Frequency Information** 

Emission / Frequency Range (MHz)

Transmit 6.7 GHz

850KFXD / 6535.0

Max Great Circle Coordination Distance

Precipitation Scatter Contour Radius

155.7 km / 96.7 mi

284.5 km / 176.8 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)
Longitude (NAD 83)
Ground Elevation (AMSL)
Antenna Centerline (AGL)
Antenna Model

Latitude (NAD 83)
40° 38′ 39.4″ N
75° 11′ 27.6″ W
54.86 m / 180.0 ft
9.14 m / 30.0 ft
TIW 14.2 Meter

Antenna Mode Transmit 6.7 GHz

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power 4.2 (dBW/4 kHz)

|   | Transm | it 6.7 | GHz |
|---|--------|--------|-----|
| - |        | _      |     |

| Azimuth (°)         Elevation (°)         Discrimination (°)         Gain (dBi)         Distance (km)           0         3.52         112.22         -10.00         100.00           5         4.01         107.39         -10.00         100.00           10         4.15         102.51         -10.00         100.00           15         2.87         97.58         -10.00         100.00           20         2.87         92.71         -10.00         100.00           35         3.07         87.84         -10.00         100.00           35         3.79         78.06         -10.00         100.00           40         3.82         73.17         -10.00         100.00           45         3.86         68.30         -10.00         100.00           45         3.86         63.345         -10.00         100.00           50         3.66         63.45         -10.00         100.00           55         3.45         58.63         -10.00         100.00           65         3.16         49.05         -10.00         100.00           70         2.88         44.35         -9.17         100.28 |  | Coordination | Horizon       | Antenna | Horizon |             |
|--|--|--------------|---------------|---------|---------|-------------|
| 5       4.01       107.39       -10.00       100.00         10       4.15       102.51       -10.00       100.00         15       2.87       97.58       -10.00       100.00         20       2.87       92.71       -10.00       100.00         25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         45       3.66       63.45       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07<   |  |              |               |         |         | Azimuth (°) |
| 5       4.01       107.39       -10.00       100.00         10       4.15       102.51       -10.00       100.00         15       2.87       97.58       -10.00       100.00         20       2.87       92.71       -10.00       100.00         25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         45       3.66       63.45       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07<   |  | 100.00       | -10.00        | 112.22  | 3.52    | 0           |
| 10       4.15       102.51       -10.00       100.00         15       2.87       97.58       -10.00       100.00         20       2.87       92.71       -10.00       100.00         25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         66       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50 <td></td> <td>100.00</td> <td>-10.00</td> <td>107.39</td> <td>4.01</td> <td>5</td>       |  | 100.00       | -10.00        | 107.39  | 4.01    | 5           |
| 20       2.87       92.71       -10.00       100.00         25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45  |  | 100.00       |               | 102.51  | 4.15    |             |
| 25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.28       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41   |  | 100.00       |               | 97.58   | 2.87    |             |
| 25       3.07       87.84       -10.00       100.00         30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.28       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41   |  | 100.00       | -10.00        | 92.71   | 2.87    | 20          |
| 30       3.50       82.95       -10.00       100.00         35       3.79       78.06       -10.00       100.00         40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67  |  | 100.00       | -10.00        | 87.84   | 3.07    |             |
| 40       3.82       73.17       -10.00       100.00         45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57  |  | 100.00       | -10.00        | 82.95   | 3.50    | 30          |
| 45       3.86       68.30       -10.00       100.00         50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50   |  | 100.00       | -10.00        | 78.06   | 3.79    | 35          |
| 50       3.66       63.45       -10.00       100.00         55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57   |  | 100.00       | -10.00        | 73.17   | 3.82    | 40          |
| 55       3.45       58.63       -10.00       100.00         60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 100.00       | -10.00        | 68.30   | 3.86    | 45          |
| 60       3.33       53.82       -10.00       100.00         65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 100.00       | -10.00        | 63.45   | 3.66    | 50          |
| 65       3.16       49.05       -10.00       100.00         70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 100.00       | -10.00        | 58.63   | 3.45    | 55          |
| 70       2.88       44.35       -9.17       100.28         75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 100.00       | -10.00        | 53.82   | 3.33    | 60          |
| 75       3.16       39.57       -7.93       100.00         80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59   |  | 100.00       | -10.00        | 49.05   | 3.16    | 65          |
| 80       3.14       34.92       -6.58       104.93         85       3.07       30.39       -5.07       111.96         90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 100.28       | <b>-</b> 9.17 | 44.35   | 2.88    | 70          |
| 85     3.07     30.39     -5.07     111.96       90     3.08     25.98     -3.37     118.42       95     2.95     21.88     -1.50     127.76       100     2.73     18.28     0.45     137.87       105     2.74     15.26     2.41     145.67       110     2.60     13.59     3.67     154.49       115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59   |  | 100.00       | -7.93         | 39.57   | 3.16    | 75          |
| 90       3.08       25.98       -3.37       118.42         95       2.95       21.88       -1.50       127.76         100       2.73       18.28       0.45       137.87         105       2.74       15.26       2.41       145.67         110       2.60       13.59       3.67       154.49         115       2.77       13.33       3.88       151.76         120       2.69       15.03       2.57       147.48         125       2.32       18.20       0.50       146.56         130       1.61       22.03       -1.57       155.59  |  | 104.93       | -6.58         | 34.92   | 3.14    | 80          |
| 95     2.95     21.88     -1.50     127.76       100     2.73     18.28     0.45     137.87       105     2.74     15.26     2.41     145.67       110     2.60     13.59     3.67     154.49       115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59   |  | 111.96       | -5.07         |         |         | 85          |
| 100     2.73     18.28     0.45     137.87       105     2.74     15.26     2.41     145.67       110     2.60     13.59     3.67     154.49       115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59  |  | 118.42       | -3.37         | 25.98   | 3.08    | 90          |
| 105     2.74     15.26     2.41     145.67       110     2.60     13.59     3.67     154.49       115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59   |  | 127.76       | -1.50         | 21.88   | 2.95    | 95          |
| 110     2.60     13.59     3.67     154.49       115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59  |  | 137.87       | 0.45          | 18.28   | 2.73    | 100         |
| 115     2.77     13.33     3.88     151.76       120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59   |  | 145.67       |               |         |         |             |
| 120     2.69     15.03     2.57     147.48       125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59  |  |              |               |         |         |             |
| 125     2.32     18.20     0.50     146.56       130     1.61     22.03     -1.57     155.59   |  |              |               |         |         |             |
| 130 1.61 22.03 -1.57 155.59  |  |              |               |         |         |             |
|  |  |              |               |         |         |             |
|  |  |              |               |         |         |             |
|  |  | 136.03       | -2.85         | 24.78   | 2.18    | 135         |
| 140 2.74 27.34 -3.92 122.60  |  |              |               |         |         |             |
| 145 2.33 30.44 -5.09 125.85  |  |              |               |         |         |             |
| 150 2.25 33.04 -5.98 124.11  |  |              |               |         |         |             |
| 155 1.92 35.57 -6.78 127.91  |  |              |               |         |         |             |
| 160 2.20 37.24 -7.28 120.32  |  |              |               |         |         |             |
| 165 2.65 38.35 -7.59 110.46  |  |              |               |         |         |             |
| 170 2.47 39.64 -7.95 112.66  |  |              |               |         |         |             |
| 175 1.94 40.84 -8.28 122.17  |  |              |               |         |         |             |
| 180 1.90 41.11 -8.35 122.72  |  |              |               | 41.11   |         |             |
| 185 1.86 40.92 -8.30 124.02  |  | 124.02       | -8.30         | 40.92   | 1.86    | 185         |

## 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 Latitude (NAD 83) Lockheed Martin Corporation

Longitude (NAD 83) Ground Elevation (AMSL) Antenna Centerline (AGL) 40° 38' 39.4" N 75° 11' 27.6" W 54.86 m / 180.0 ft 9.14 m / 30.0 ft TIW 14.2 Meter

Antenna Model Antenna Mode

Transmit 6.7 GHz

Interference Objectives: Long Term

-154.0 dBW/4 kHz 20%

Short Term

-131.0 dBW/4 kHz 0.0025%

Max Available RF Power

4.2 (dBW/4 kHz)

|             |               |                    | Transm     | it 6.7 GHz    |   |
|-------------|---------------|--------------------|------------|---------------|---|
|             | Horizon       | Antenna            | Horizon    | Coordination  |   |
| Azimuth (°) | Elevation (°) | Discrimination (°) | Gain (dBi) | Distance (km) |   |
| 190         | 1.24          | 40.83              | -8.27      | 138.18        | _ |
| 195         | 1.32          | 39.60              | -7.94      | 137.34        |   |
| 200         | 2.35          | 37.10              | -7.24      | 117.49        |   |
| 205         | 1.72          | 35.75              | -6.83      | 132.49        |   |
| 210         | 1.78          | 33.44              | -6.11      | 133.78        |   |
| 215         | 2.16          | 30.58              | -5.14      | 128.96        |   |
| 220         | 3.42          | 26.81              | -3.71      | 110.92        |   |
| 225         | 3.60          | 23.70              | -2.37      | 112.85        |   |
| 230         | 4.84          | 19.63              | -0.32      | 102.00        |   |
| 235         | 4.35          | 16.73              | 1.41       | 115.21        |   |
| 240         | 4.47          | 13.59              | 3.67       | 122.33        |   |
| 245         | 3.78          | 12.55              | 4.53       | 134.51        |   |
| 250         | 2.48          | 14.05              | 3.31       | 155.66        |   |
| 255         | 2.26          | 16.06              | 1.86       | 153.77        |   |
| 260         | 2.60          | 18.78              | 0.16       | 139.28        |   |
| 265         | 3.20          | 22.14              | -1.63      | 122.75        |   |
| 270         | 3.30          | 26.27              | -3.48      | 114.00        |   |
| 275         | 2.81          | 30.87              | -5.24      | 116.11        |   |
| 280         | 2.82          | 35.40              | -6.72      | 110.48        |   |
| 285         | 3.08          | 39.95              | -8.04      | 100.75        |   |
| 290         | 3.59          | 44.54              | -9.22      | 100.00        |   |
| 295         | 4.24          | 49.19              | -10.00     | 100.00        |   |
| 300         | 5.02          | 53.89              | -10.00     | 100.00        |   |
| 305         | 5.51          | 58.70              | -10.00     | 100.00        |   |
| 310         | 5.46          | 63.59              | -10.00     | 100.00        |   |
| 315         | 5.56          | 68.48              | -10.00     | 100.00        |   |
| 320         | 4.72          | 73.43              | -10.00     | 100.00        |   |
| 325         | 3.93          | 78.36              | -10.00     | 100.00        |   |
| 330         | 3.38          | 83.25              | -10.00     | 100.00        |   |
| 335         | 3.19          | 88.13              | -10.00     | 100.00        |   |
| 340         | 3.12          | 93.00              | -10.00     | 100.00        |   |
| 345         | 3.01          | 97.87              | -10.00     | 100.00        |   |
| 350         | 3.24          | 102.74             | -10.00     | 100.00        |   |
| 355         | 3.48          | 107.62             | -10.00     | 100.00        |   |
|             |               |                    |            |               |   |

## 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.

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DATED: February 23, 2014