



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


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**RADIO STATION AUTHORIZATION**

**Name:** General Atomics Aeronautical Systems, Inc.

**Call Sign:** E202001

**Authorization Type:** License

**File Number:** SES-LIC-20200512-00520

Non Common Carrier

**Grant date:** 07/27/2020

**Expiration Date:** 07/27/2035

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Temporary Fixed Earth Station

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions (Refer to Section H)
1)	FTTC	122 Grand Sky Blvd Emerado, Grand Forks, ND 58228				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	GB	25500 E Ave R 8 Palmdale, Los Angeles, CA 93591				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	YPG	Laguna Army Airfield Yuma, Yuma, AR 85365				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning July 27, 2020 (3 AM Eastern Standard Time) and ending July 27, 2035 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is July 27, 2021 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H,V	20M0G2D	Tx	53.57	24.70	1		Digital Data, various FEC, data rates, and modulations



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2)	11700.0000-12200.0000	H, V	20M0G2D	Rx	0.00	0.00	1		Digital Data, various FEC, data rates, and modulations
3)	14000.0000-14500.0000	H, V	20M0G2D	Tx	53.57	24.70	2		Digital Data, various FEC, data rates, and modulations
4)	11700.0000-12200.0000	H, V	20M0G2D	Rx	0.00	0.00	2		Digital Data, various FEC, data rates, and modulations
5)	14000.0000-14500.0000	H, V	20M0G2D	Tx	53.57	24.70	3		Digital Data, various FEC, data rates, and modulations
6)	11700.0000-12200.0000	H, V	20M0G2D	Rx	0.00	0.00	3		Digital Data, various FEC, data rates, and modulations

**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	14000.0000-14500.0000	0.0W	0.0W	46.0	46.0	147.0	147.0	24.7	1
2)	11700.0000-12200.0000			46.0	46.0	147.0	147.0		1
3)	14000.0000-14500.0000	0.0W	0.0W	35.0	35.0	177.0	177.0	24.7	2
4)	11700.0000-12200.0000			35.0	35.0	177.0	177.0		2
5)	14000.0000-14500.0000	0.0W	0.0W	43.0	43.0	143.0	143.0	24.7	3
6)	11700.0000-12200.0000			43.0	43.0	143.0	143.0		3

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) YPG to Permitted Space Station List
- 2) FTTC to Permitted Space Station List
- 3) GB to Permitted Space Station List



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**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
YPG	1	2	0.68	General Dynamics Mission Systems	M17-27A	10668	AGL/ 10585 AMSL	
Max Gains(s):		36.7 dBi @	11.7000 GHz	38.8 dBi @	14.5000 GHz			
Maximum total input power at antenna flange (Watts) =					30.00			
Maximum aggregate output EIRP for all carriers (dBW) =					53.57			
FTTC	2	3	0.68	General Dynamics Mission Systems	M17-27A	10668	AGL/ 10585 AMSL	
Max Gains(s):		36.7 dBi @	11.7000 GHz	38.8 dBi @	14.5000 GHz			
Maximum total input power at antenna flange (Watts) =					30.00			
Maximum aggregate output EIRP for all carriers (dBW) =					53.57			
GB	3	3	0.68	General Dynamics Mission Systems	M17-27A	10668	AGL/ 10585 AMSL	
Max Gains(s):		36.7 dBi @	11.7000 GHz	38.8 dBi @	14.5000 GHz			
Maximum total input power at antenna flange (Watts) =					30.00			
Maximum aggregate output EIRP for all carriers (dBW) =					53.57			

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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**B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:**

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**