

Jae Lim

From: Emel, Erica <Erica.Emel@ga-asi.com>
Sent: Monday, October 5, 2020 7:50 PM
To: Jae Lim
Subject: RE: SES-LIC-20200624-00672; Call Sign: E202118

Hi Jae,

Please see the below responses. Should you have any additional questions, please let me know.

We need to verify data in your Temp Fixed Earth station LIC application.

- 1) Please specify/confirm what satellite you will be communicating with. The temporary fixed earth station's operations will be limited to satellites on the Permitted Space Station List.
ALSAT
- 2) The temporary fixed earth station will operate only in the conventional Ku-band (14.0-14.5 GHz and 11.7-12.2 GHz bands). Please verify the Freq band.
We will use convention Ku-band for this terminal.
- 3) Please verify Emission Designator highlighted in the screenshot below.
We requested the emission designator from the vendor.
- 4) You chose Geo and Non-Geo for Satellite Orbit Type. We assume Geostationary. Please verify.
Geostationary is correct.
- 5) No Radiation report is attached. Please provide one.
Radiation report is in progress.
- 6) You provided coordinates. When the initial location of the temporary fixed earth station's operation is known, the applicant shall provide, as part of the Form 312 application, a frequency coordination report in accordance with §25.203 for the initial station location.
As of 10/5/20, the earth station is currently not at the coordinates specified in the application. At this time, is the frequency coordination report still necessary?
- 7) We can update your Elev and Azim according to calculations in IBFStools or you must provide corrections.
- 8) Eirp 61.9 dBW and 43.7 dBW are outside of 68-85 dBW range (see 25.204(f))
The 61.9 dBW and 43.7 dBW EIRPs are given by the manufacturer.

Regards,

Erica Emel
International Contracts
General Atomics Aeronautical Systems, Inc.
14170 Kirkham Way
Poway, CA 92064

Office: (858) 879-5167
Email: erica.emel@ga-asi.com

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From: Emel, Erica <Erica.Emel@ga-asi.com>
Sent: Friday, September 25, 2020 12:26 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Subject: RE: SES-LIC-20200624-00672; Call Sign: E202118

Hi Jae,

Please stand by, I apologize for the delay and I'm working with our team to get you an answer.

Thank you for your patience and happy Friday!

Regards,

Erica Emel
International Contracts
General Atomics Aeronautical Systems, Inc.
14170 Kirkham Way
Poway , CA 92064

Office: (858) 879-5167
Email: erica.emel@ga-asi.com

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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Wednesday, September 16, 2020 8:19 AM
To: Emel, Erica <Erica.Emel@ga-asi.com>; Herrell, Russell <Russell.Herrell@ga.com>
Subject: -EXT-RE: SES-LIC-20200624-00672; Call Sign: E202118

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Hi,

I hope all is well.

I haven't heard from you both and would appreciate if you can verify schedule B data you see below.

Thanks.

Jae Lim

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, August 13, 2020 3:29 PM
To: erica.emel@ga-asi.com; russell.herrell@ga-asi.com
Subject: SES-LIC-20200624-00672; Call Sign: E202118

Hi Erica Emel and Russ Herrell,

We hope all is well with you and your family.

We need to verify data in your Temp Fixed Earth station LIC application.

- 1) Please specify/confirm what satellite you will be communicating with. The temporary fixed earth station's operations will be limited to satellites on the Permitted Space Station List.
- 2) The temporary fixed earth station will operate only in the conventional Ku-band (14.0-14.5 GHz and 11.7-12.2 GHz bands). Please verify the Freq band.
- 3) Please verify Emission Designator highlighted in the screenshot below.
- 4) You chose Geo and Non-Geo for Satellite Orbit Type. We assume Geostationary. Please verify.
- 5) No Radiation report is attached. Please provide one.
- 6) You provided coordinates. When the initial location of the temporary fixed earth station's operation is known, the applicant shall provide, as part of the Form 312 application, a frequency coordination report in accordance with §25.203 for the initial station location.
- 7) We can update your Elev and Azim according to calculations in IBFStools or you must provide corrections.
- 8) Eirp 61.9 dBW and 43.7 dBW are outside of 68-85 dBW range (see 25.204(f))

Thanks.

File No.	SES-LIC-20200624-00672	Call Sign	E202118	Filing State	Pending	Status	APP	Status Date	Jun 24 2020 6:				
Applicant	General Atomics Aeronautical Systems, Inc.		File Date	May 20 2020	Last Action			Action Date					
Class of Station	Temporary Fixed Earth Station	Type of Facility	Transmit/Receive	Nature of Service	FSS = Fixed Satellite Service								
<input checked="" type="checkbox"/> US Licensed Satellites <input type="checkbox"/> Non-US Licensed Satellites		Certifications	OK		Routed To		Jae_Lim						
Gray Butte (04CA)													
City	Palmdale	County	Los Angeles	State	CA	Lat	343412.0N	Lon	1144048.0W				
						Grd (m amsl)	923	NAD83					
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output EIRP	Gain (dBi@GHz)	Gain (dBi@GHz)	P.Comments						
1	2.00Ku	2	33.9	61.9	45.4 @ 11.725	46.6 @ 14.125							
Ord Row	Freq Lo (MHz)	Freq Hi (MHz)	SatArc (East)	SatArc (West)	Elev (East)	Elev (West)	Azim (East)	Azim (West)	Calc Elev (East)	Calc Elev (West)	Calc Azim (East)	Calc Azim (West)	Antenna ID
1	10700	12750	51W	184W	10.5	10.8	103.8	256.03	12.9	8.3	105.7	257.9	2.00Ku
2	13750	14500	51W	184W	10.5	10.8	103.8	256.03	12.9	8.3	105.7	257.9	2.00Ku
Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Eirp Density (dBW/4kHz)	T/R	Bandwidth	Modulation	Pt (dBW)	Pt (W)	P.D. (dBW/4kHz)	Antenna ID	
1	10700	12750				R	Unknown	Unknown				2.00Ku	
2	13750	14500	36M0G7W	61.9	22.30	T	36.0 MHz	Digital	15.30	33.88	-24.30	2.00Ku	
3	13750	14500	51K2G7W	43.7	32.60	T	51.2 kHz	Digital	-2.90	51	-14.00	2.00Ku	

Jae Lim
FCC/IB
1-202-418-2899