

From: Emel, Erica
To: Jae Lim
Subject: RE: SES-LIC-20200512-00520; call sign: E202001
Date: Thursday, June 18, 2020 6:44:03 PM
Attachments: [Image001.png](#)

Hi Jae,

Please see the responses in red:

- 1) Please provide antenna gain@11700-12200 MHz – 36.69-36.93 dBi at 11.7-12.2 GHz
- 2) We will change 1700 MHz Freq Lo to 11700 MHz for YPG Antenna 1 – 11700 MHz is correct for Freq Lo.
- 3) Please verify minimum elevation angle and azim for all sites –

Minimum Az/EI pairs:

1. YPG
 - a. 147 Azimuth (true), 46 Elevation
2. FTTC
 - a. 177 Azimuth (true), 35 Elevation
3. GB
 - a. 143 Azimuth (true), 43 Elevation

Should you need any additional information, please advise.

Thank you.

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

PLEASE NOTE: GA-ASI OPERATES ON A 9/80 WORK SCHEDULE WITH EVERY OTHER FRIDAY OFF. ANY E-MAILS OR VOICEMAILS LEFT ON AN "OFF FRIDAY" WILL BE RETURNED THE FOLLOWING MONDAY*

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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, June 18, 2020 2:05 PM
To: Emel, Erica <Erica.Emel@ga-asi.com>
Subject: -EXT-SES-LIC-20200512-00520; call sign: E202001

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Hi Erica Emel,

We hope all is well with you and your family.

Please take a look below and verify the following:

- 1) Please provide antenna gain@11700-12200 MHz
- 2) We will change 1700 MHz Freq Lo to 11700 MHz for YPG Antenna 1
- 3) Please verify minimum elevation angle and azim for all sites

Thanks.

File No. SES-LIC-20200512-00520 Call Sign: E202001 Filing State: Pending Status: AFP Status Date: May 13 2020 11
 Applicant: General Atomics Aeronautical Systems, Inc. File Date: May 4 2020 1 Last Action: Action Date:
 Class of Station: Mobile Earth Station Type of Facility: Transmit/Receive Nature of Service: FSS - Fixed Satellite Service No. Sites: 3
 US Licensed Satellites Certifications: OK Routed To: Jae_Lim
 Non-US Licensed Satellites

YPG FTTC GB

City: Yuma County: Yuma State: AR Lat: Lon: Grd (m amsl): NADNA

Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)
1	1	0.68	30	53.57	38.8 @ 14.5	37.8 @ 12.75

PtComms: PERMITTED LIST @

Crd 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	14000	14500	0w	0w	0	90	0	90					1
2	11700	12200	w	0w	0	90	0	90					1

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	14000	14500	20M0G2D	53.57	24.70	T	20.0 MHz	Digital	14.76	29.92	-14.11	1
2	11700	12200	20M0G2D	.00	0.00	R	20.0 MHz	Digital				1

YPG FTTC GB

City: Emerado County: Grand Forks State: ND Lat: Lon: Grd (m amsl): NADNA

Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)
1	2	0.68	30	53.57	37.8 @ 12.75	38.8 @ 14.5

PtComms: PERMITTED LIST @

Crd 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	14000	14500	0w	0w	0	90	0	90					2
2	11700	12200	w	0w	0	90	0	90					2

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	14000	14500	20M0G2D	53.57	24.70	T	20.0 MHz	Digital	14.76	29.92	-14.11	2
2	11700	12200	20M0G2D	.00	0.00	R	20.0 MHz	Digital				2

YPG FTTC GB

City: Palmdale County: Los Angeles State: CA Lat: Lon: Grd (m amsl): NADNA

Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)
1	3	0.68	30	53.57	38.8 @ 14.5	37.8 @ 12.75

PtComms: PERMITTED LIST @

Crd 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	14000	14500	0w	0w	0	90	0	90					3
2	11700	12200	w	0w	0	90	0	90					3

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	14000	14500	20M0G2D	53.57	24.70	T	20.0 MHz	Digital	14.76	29.92	-14.11	3
2	11700	12200	20M0G2D	.00	0.00	R	20.0 MHz	Digital				3

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