

Jae Lim

From: Karis Hastings <karis@satcomlaw.com>
Sent: Monday, December 7, 2020 11:28 AM
To: Jae Lim; bgordon@gogoair.com
Cc: Cindy Spiers; Paul Blais
Subject: RE: SES-LIC-20201006-01096; Call sign: E202171

Jae Lim,

Gogo has heard back from the manufacturer, and the answers to your questions are provided below.

1. Antenna gain in the 28.6-29.1 GHz transmit frequency band:

Elevation Angle	Transmit Gain (dBi)
15 degrees	31.0 dBi
30 degrees	34.4 dBi
45 degrees	36.5 dBi

2. Section 25.209 compliance:

Antenna input Power Spectral Density (PSD) is monitored and controlled such that the antenna gain requirements of Section 25.209 are effectively met under all conditions, consistent with the combined requirements of Sections 25.212(e) and 25.218(i).

Please let me know if you need anything else, and thanks for your patience on this. Also, note that Gogo will be filing a brief update letter in the application proceeding to provide notice that the acquisition of Gogo by Intelsat approved by the Commission has been consummated.

Best regards,
Karis

Karis A. Hastings
SatCom Law LLC
202.599.0975
karis@satcomlaw.com
www.satcomlaw.com



CONFIDENTIALITY. This e-mail and any attachments are confidential and may also be privileged. If you have received this message in error, please do not disclose the contents to anyone, but notify the sender by return e-mail and delete this e-mail (and any attachments) from your system.

From: Karis Hastings <karis@satcomlaw.com>
Sent: Tuesday, December 1, 2020 1:09 PM
To: 'Jae Lim' <Jae.Lim@fcc.gov>; 'bgordon@gogoair.com' <bgordon@gogoair.com>

Cc: 'Cindy Spiers' <Cindy.Spiers@fcc.gov>; 'Paul Blais' <Paul.Blais@fcc.gov>

Subject: RE: SES-LIC-20201006-01096; Call sign: E202171

Jae Lim,

Thanks for following up – Gogo is working with the antenna manufacturer to answer your questions, and we will send you a response as soon as we can.

Best regards,
Karis

Karis A. Hastings
SatCom Law LLC
202.599.0975
karis@satcomlaw.com
www.satcomlaw.com



CONFIDENTIALITY. This e-mail and any attachments are confidential and may also be privileged. If you have received this message in error, please do not disclose the contents to anyone, but notify the sender by return e-mail and delete this e-mail (and any attachments) from your system.

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, December 1, 2020 12:45 PM
To: karis@satcomlaw.com; bgordon@gogoair.com
Cc: Cindy Spiers <Cindy.Spiers@fcc.gov>; Paul Blais <Paul.Blais@fcc.gov>
Subject: RE: SES-LIC-20201006-01096; Call sign: E202171
Importance: High

Hi Karis and Bill,

We hope all is well.

We haven't heard from you yet regarding this application.

Please see below and let us know.

Thanks.

Jae Lim
FCC/IB

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, November 17, 2020 9:46 AM
To: karis@satcomlaw.com
Cc: Cindy Spiers <Cindy.Spiers@fcc.gov>; Paul Blais <Paul.Blais@fcc.gov>
Subject: SES-LIC-20201006-01096; Call sign: E202171

Hi Karis Hastings,

We hope all is well.

Your LIC application is incomplete and we need the following:

1. We will update your application with antenna gains at 15 degree elev in the report para 1.1 you provided. Please provide Antenna Gain for the freq band 28.6-29.1 GHz
2. Please verify 25.209 compliance

Thanks.

Elevation Angle	Receive Gain (dBi)		Transmit Gain (dBi)	
	19.3 GHz	20.2 GHz	28.5 GHz	29.75 GHz
15°	32.8	33.6	30.8	31.6
30°	36.0	36.7	34.2	34.8
45°	37.7	38.1	36.2	36.9

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	28350	28600	15MOG7D	49.10	13.40	T	15.0 MHz	Digital	No Gain	Found		AES1
2	28350	28600	7M50G7D	49.00	16.30	T	7.50 MHz	Digital	No Gain	Found		AES1
3	29300	30000	15MOG7D	49.10	13.40	T	15.0 MHz	Digital	12.60	18.20	-23.10	AES1
4	29300	30000	7M50G7D	49.00	16.30	T	7.50 MHz	Digital	12.50	17.78	-20.20	AES1
5	28350	28600	2M50G7D	46.00	18.00	T	2.50 MHz	Digital	No Gain	Found		AES1
6	19700	20200	250MG7D			R	250. MHz	Digital				AES1
7	18300	19300	250MG7D			R	250. MHz	Digital				AES1
8	28600	29100	15MOG7D	49.10	13.40	T	15.0 MHz	Digital	No Gain	Found		AES1
9	28600	29100	7M50G7D	49.00	16.30	T	7.50 MHz	Digital	No Gain	Found		AES1
10	28600	29100	2M50G7D	46.00	18.00	T	2.50 MHz	Digital	No Gain	Found		AES1
11	29300	30000	2M50G7D	46.00	18.00	T	2.50 MHz	Digital	9.50	8.91	-18.50	AES1
12	19700	20200	39MOG7D			R	39.0 MHz	Digital				AES1
13	18300	19300	39MOG7D			R	39.0 MHz	Digital				AES1

Jae Lim
FCC/IB