

From: [Cindy \(Lynch\) Hall](#)  
 To: [Jae Lim](#)  
 Subject: RE: [EXTERNAL]: SES-LIC-20210707-01017 / SES-AMD-20210812-01399  
 Date: Friday, September 10, 2021 2:10:45 PM  
 Attachments: [img00002.png](#)  
[img00003.png](#)  
[img00004.png](#)  
[img00005.png](#)

Jae,  
 I sent your email to the Engineer for confirmation on the emission designator. I will respond once I have their answer.

The coordinates submitted in the application, 66-54-25.5N, 156-52-52.6W, are corrected based on a 1A survey of the proposed ES location. The earth station has not been constructed yet as we are awaiting permission from the FCC via this license application. Note that the longitude seconds you list below do not match what was submitted on the application. You have 56.2, should be 52.6

Thank you Jae

**CINDY HALL**  
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From: Jae Lim <Jae.Lim@fcc.gov>  
 Sent: Friday, September 10, 2021 9:45 AM  
 To: Cindy (Lynch) Hall <chall2@gci.com>  
 Subject: RE: [EXTERNAL]: SES-LIC-20210707-01017 / SES-AMD-20210812-01399

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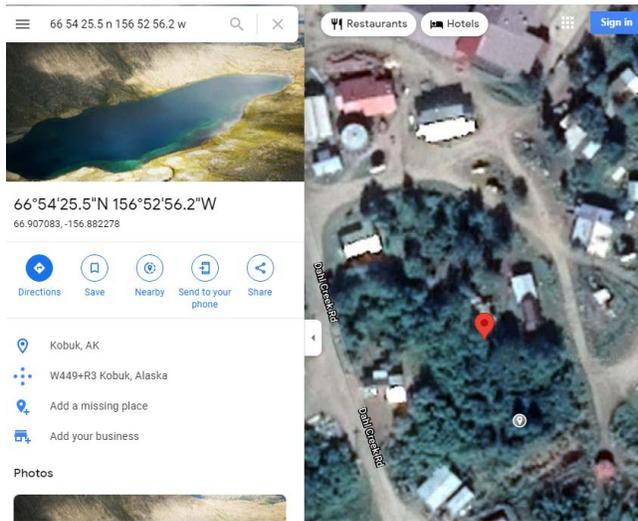
Hi Cindy,

I'm unable to see your antenna at site coordinates.  
 Can you verify antenna location?

I will also correct the Emission Designator to 108MG7W.  
 Please confirm this for me.

Thanks.

Jae Lim  
 FCC/IB



File No.	SES-LIC-20210707-01017	Call Sign	E210126	Filing State	Alaska	Status	Pending	App	Status Date	Jul 7 2021			
Applicant:	GCI Communication Corp.												
Class of Station:	Fixed Earth Stations												
Type of Facility:	Transmit/Receive												
Nature of Service:	FSS - Fixed Satellite Service												
US Licensed Satellites:	None/US Licensed Satellites												
Certifications:	OK Requires Freq. Coord. Exhibit for 1												
Routed To:	Jae Lim												
City:	Kobuk												
County:	Northwest Arctic												
State:	AK												
Lat:	66.907083												
Lon:	-156.882278												
Antenna ID:	1												
Diameter (m):	3.8												
Power (W):	400												
Gain (dBi):	72.22												
Gain (dBd):	46.5 @ 6.135												
Gain (dB):	42.0 @ 3.912												
Dir	Freq Lo (MHz)	Freq Hi (MHz)	Sat Arc (Elev)	Sat Arc (Azim)	Elev (Elev)	Elev (Azim)	Calc Elev (Elev)	Calc Elev (Azim)	Calc Azim (Elev)	Calc Azim (Azim)	Antenna ID		
1	3700	4200	109W	206W	5.4	6.2	125.8	231.5	5.3	6.2	125.8	231.5	1
2	5925	6425	109W	206W	5.4	6.2	125.8	231.5	5.3	6.2	125.8	231.5	1
Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	EIRP Density (dBW/4kHz)	T/R	Bandwidth (MHz)	Modulation	PI (dBV)	Pt (W)	P.D. (dBW/4kHz)	Antenna ID	
1	3700	4200	45K0G7W			R	45.0 kHz	Digital				1	
2	3700	4200	108MG7W			R	108 MHz	Unknown				1	
3	5925	6425	45K0G7W	54.57	43.90	T	45.0 kHz	Digital	8.07	6.41	-3.00	1	
4	5925	6425	108MG7W	72.22	27.91	T	108 MHz	Unknown	25.72	373.25	-18.59	1	

Antenna Information	Receive	Transmit		
Manufacturer	GD Satcom	GD Satcom		
Model	3.8M	3.8M		
Gain / Diameter	42.3 dBi / 3.8 m	46.2 dBi / 3.8 m		
3-dB / 15-dB Beamwidth	1.40° / 3.00°	0.90° / 1.70°		
Max Available RF Power (dBW/4 kHz)	-2.7	-18.29		
(dBW/MHz)	21.3	5.71		
Maximum EIRP (dBW/4 kHz)	43.5	27.91		
(dBW/MHz)	54.57	51.91		
(dBW)	54.57	72.22		
Interference Objectives:	Long Term -156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term -146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Frequency Information	Receive 4.0 GHz	Transmit 6.1 GHz		
Emission / Frequency Range (MHz)	45K0G7W - 108MG7W / 3700.0 - 4200.0	45K0G7W - 108MG7W / 5925.0 - 6425.0		
	45K0G7W - 108MG7W / 3700.0 - 4200.0	45K0G7W - 108MG7W / 5925.0 - 6425.0		
Max Great Circle Coordination Distance	559.1 km / 347.4 mi	323.2 km / 200.8 mi		
Precipitation Scatter Contour Radius	612.3 km / 380.4 mi	101.4 km / 63.0 mi		

From: Cindy (Lynch) Hall <chall2@gci.com>  
 Sent: Thursday, September 9, 2021 5:50 PM  
 To: Jae Lim <Jae.Lim@fcc.gov>  
 Cc: Cindy (Lynch) Hall <chall2@gci.com>  
 Subject: [EXTERNAL]: SES-LIC-20210707-01017 / SES-AMD-20210812-01399

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Jae,  
 I believe that you are the person reviewing the application listed above. Do you have an idea of when this should be going out on Public Notice?

Thank you

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