

From: [Cindy \(Lynch\) Hall](#)
 To: [Jae Lim](#)
 Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860
 Date: Tuesday, November 26, 2019 4:21:45 PM
 Attachments: [imsap001.png](#)
[imsap003.png](#)

Yes, please make that change.

Thank you Jae.

CINDY HALL

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From: Jae Lim <Jae.Lim@fcc.gov>
 Sent: Tuesday, November 26, 2019 12:17 PM
 To: Cindy (Lynch) Hall <chall2@gci.com>
 Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

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Thanks for getting back to me, Cindy.

EIRP density @45k should be reduced to 43.20 dBW/4KHz per cfr 25.212 to get -2.7 dBW/4KHz.

Please confirm this change.

Thanks.

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	3700	4200	45K0G7W-			R	45.0 KHz	Digital				1
2	3700	4200	36M0G7W-			R	36.0 MHz	Digital				1
3	3700	4200	60K0D7W-			R	60.0 KHz	Digital				1
4	3700	4200	36M0D7W-			R	36.0 MHz	Digital				1
5	5925	6425	45K0G7W-	53.71	43.21	T	45.0 KHz	Digital	7.81	6.04	-2.69	1
6	5925	6425	36M0G7W-	68.91	29.37	T	36.0 MHz	Digital	23.01	199.99	-16.53	1
7	5925	6425	36M0D7W-	68.91	29.37	T	36.0 MHz	Digital	23.01	199.99	-16.53	1
8	5925	6425	60K0D7W-	54.96	43.20	T	60.0 KHz	Digital	9.06	8.05	-2.70	1
9	5925	6425	36M0D7W-	68.91	29.37	T	36.0 MHz	Digital	23.01	199.99	-16.53	1

FREQUENCY	E2S. Antenna Id	E43.44. Frequency Band(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4KHz)
1		3700.00-4200.00	R	Horizontal and Vertical	36M0G7W-	0.0	0.0
E50. Modulation and Services Phase modulated voice, video, and data services.							
1		3700.00-4200.00	R	Horizontal and Vertical	45K0G7W-	0.0	0.0
E50. Modulation and Services Phase modulated voice, video, and data services.							
1		3700.00-4200.00	R	Horizontal and Vertical	36M0D7W-	0.0	0.0
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services.							
1		3700.00-4200.00	R	Horizontal and Vertical	60K0D7W-	0.0	0.0
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services.							
1		5925.00-6425.00	T	Horizontal and Vertical	36M0G7W-	68.91	29.37
E50. Modulation and Services Phase modulated voice, video, and data services.							
1		5925.00-6425.00	T	Horizontal and Vertical	36M0G7W-	68.91	29.37
E50. Modulation and Services Phase modulated voice, video, and data services.							
1		5925.00-6425.00	T	Horizontal and Vertical	45K0G7W-	53.71	43.21
E50. Modulation and Services Phase modulated voice, video, and data services.							
1		5925.00-6425.00	T	Horizontal and Vertical	36M0D7W-	68.91	29.37
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services.							
1		5925.00-6425.00	T	Horizontal and Vertical	60K0D7W-	54.96	43.2
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services.							

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

From: Cindy (Lynch) Hall <chall2@gci.com>
 Sent: Tuesday, November 26, 2019 3:51 PM
 To: Jae Lim <Jae.Lim@fcc.gov>
 Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

Jae,
 My apologies for the delay. The Engineer and I have had issues with our schedules. We were finally able to connect.

The issue with the application appears to be with question E41/42: Antenna Gain Transmit and/or Receive. We incorrectly entered 45.6 dBi at 6.000. This should be 45.9 dBi at 6.000 as stated in the frequency coordination.

Please let me know if you have any questions or need additional information.

Thanks,

CINDY HALL

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From: Jae Lim <Jae.Lim@fcc.gov>
 Sent: Thursday, October 31, 2019 1:26 PM
 To: Cindy (Lynch) Hall <chall2@gci.com>
 Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

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So just to clarify, EIRP density should be 42.9 and Input Power should be 214.29 (we can also decrease EIRP for 200W Input Power). Do you mean you agree with this?

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

From: Jae Lim <Jae.Lim@fcc.gov>
 Sent: Thursday, October 31, 2019 5:23 PM
 To: Cindy (Lynch) Hall <chall2@gci.com>

Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

Thanks for this confirmation.

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

From: Cindy (Lynch) Hall <chall2@gci.com>
Sent: Thursday, October 31, 2019 5:21 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

Joe,
After an additional discussion with the Engineer, he agrees that the EIRP number should be 42.9.

Thank you,

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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, October 31, 2019 4:18 AM
To: Cindy (Lynch) Hall <chall2@gci.com>
Subject: Re: SES-LIC-20191022-01366; Call Sign: E190860

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Hi Cindy,
IBFS certification failed. I calculated and your eirp - antenna gain is bigger than input power. You can either decrease eirp or increase input power with the same antenna gain. IBFS routine processing requires .3 & .31 dB lower eirp density.
Please let me know.

On Oct 30, 2019, at 8:23 PM, Cindy (Lynch) Hall <chall2@gci.com> wrote:

My apologies, I meant to say "he is asking 'why' the information would need to be changed?"

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From: Cindy (Lynch) Hall
Sent: Wednesday, October 30, 2019 4:18 PM
To: 'Jae Lim' <Jae.Lim@fcc.gov>
Subject: RE: SES-LIC-20191022-01366; Call Sign: E190860

Jae,
I spoke with the engineer for this project and he stated that the information listed below came from the frequency coordination. He is asking when the information would need to be changed?

Thank you for your assistance.

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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Wednesday, October 30, 2019 1:50 PM
To: Cindy (Lynch) Hall <chall2@gci.com>
Subject: SES-LIC-20191022-01366; Call Sign: E190860

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Hi Cindy Hall,

Your application is incomplete.
We will need to change E.38 Input Power and E.49 eirp density as you see below.
Please let me know.

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
1	0.0 0.0	4.3	57.6	0.0	200.0 - 214.29	0.0	68.91
FREQUENCY							
E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4kHz)	
1	3700.00 4200.00	R	Horizontal and Vertical	36M0G7W	0.0	0.0	
E50. Modulation and Services Phase modulated voice, video, and data services.							
1	3700.00 4200.00	R	Horizontal and Vertical	45K0G7W-	0.0	0.0	
E50. Modulation and Services Phase modulated voice, video, and data services.							
1	3700.00 4200.00	R	Horizontal and Vertical	36M0D7W	0.0	0.0	
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services							
1	3700.00 4200.00	R	Horizontal and Vertical	60K0D7W -	0.0	0.0	
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services							
1	5925.00 6425.00	T	Horizontal and Vertical	36M0G7W	68.91	29.37	
E50. Modulation and Services Phase modulated voice, video, and data services.							
1	5925.00 6425.00	T	Horizontal and Vertical	36M0G7W	68.91	29.37	
E50. Modulation and Services Phase modulated voice, video, and data services.							
1	5925.00 6425.00	T	Horizontal and Vertical	45K0G7W-	53.71	43.21 - 42.9	
E50. Modulation and Services Phase modulated voice, video, and data services.							
1	5925.00 6425.00	T	Horizontal and Vertical	36M0D7W	68.91	29.37	
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services							
1	5925.00 6425.00	T	Horizontal and Vertical	60K0D7W -	54.96	43.2 - 42.9	
E50. Modulation and Services Amplitude and Angle Modulated Voice, Video, and Data services							

Jae Lim
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