

From: Joseph Massey
To: Jae Lim
Cc: Kevin Moscatiello; Edwards, Gary; Darryl White
Subject: RE: SES-LIC-20201117-01252; Call Sign: E202189
Date: Tuesday, March 9, 2021 1:45:40 PM
Attachments: [Image002.png](#)
[Image003.png](#)
[Image004.png](#)
[Image005.png](#)
[Image006.png](#)
[Image007.png](#)
[Image008.png](#)
[Image009.png](#)

Jae Lim,

Thank you for taking the time to speak with me today. As a result of our discussion, I request to make the following changes to the frequency limits for the carrier descriptions in items 3, 4 and 5 appearing in the screen shot below:

- Item 3; frequency band should be 13770 MHz to 13780 MHz.
- Item 4; frequency band should be 13750 MHz to 13769 MHz.
- Item 5; frequency band should be 13781 MHz to 14000 MHz.

Also on item 3; EIRP should be 71.0. The EIRP density/4 KHz is correct as stated.

These changes should bring the modification application into compliance. Please confirm.

Regards,

Joseph Massey, Engineer
 USEI Vernon Valley Teleport
jmassey@usei-teleport.com
 973-202-4088 (mobile)

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, March 04, 2021 4:18 PM
To: Joseph Massey <jmassey@usei-teleport.com>
Cc: Kevin Moscatiello <kmoscatiello@usei-teleport.com>; Edwards, Gary <gedwards@comsearch.com>; Darryl White <dwhite@usei-teleport.com>
Subject: RE: SES-LIC-20201117-01252; Call Sign: E202189

Hi Joseph,

Sorry for the late reply.

I received the pleading, but we still need to lower the EIRP density for 13750-13771 and 13779-14000 MHz.

48.4 dBW/4K = 80.18 dBW/6M
 45.4 dBW/4K = 77.16 dBW/6M

These exceed 71 dBW/6MHz and must be lowered below 71.

Please email me the lowered EIRP density/4kHz for both freq bands.

Thanks.

Jae Lim
FCC/IB

File No.	SES-LIC-20201117-01252	Call Sign	E202189	Filing State	Pending	Status	AFP	Status Date	Nov 17 2020	No. Sites	6		
Applicant:	Denaif 20020, LLC		File Date:	Nov 17 2020	Last Action:		Action Date:						
Class of Station:	Fixed Earth Stations		Type of Facility:	Transmit/Receive	Nature of Service:	FSS - Fixed Satellite Service					1		
<input checked="" type="checkbox"/> US Licensed Satellites	Certifications:		OK		Requires Freq. Coord. Exhibit for WVES Ciel-2		Routed To:		Jae_Lim				
WVES Ciel-2													
City:	VERNON VALLEY	County:	Sussex	State:	NJ	Lat:	411207.0N	Lon:	0743135.0W	Gnd (m amsl):	217.9	NAD83	
Ant Flow	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output EIRP	Gain (dBi@GHz)	Gain (dBi@GHz)							
1	WVCiel-2	11	347	87.9	61.0 @ 11.95	62.4 @ 14.25							
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	3W	143W	5.1	7.4	102.4	255.4	5.1	7.4	102.4	255.4	WVCiel-2
2	10950	11200	3W	143W	5.1	7.4	102.4	255.4	5.1	7.4	102.4	255.4	WVCiel-2
3	11450	12200	3W	143W	5.1	7.4	102.4	255.4	5.1	7.4	102.4	255.4	WVCiel-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	36M0G7W	85.00	45.40	T	36.0 MHz	Digital	22.60	181.97	-17.00	WVCiel-2	
2	14000	14500	1M00G7W	72.37	48.40	T	1.00 MHz	Digital	9.97	9.93	-14.00	WVCiel-2	
3	13772	13778	6M00G7W	71.10	39.23	T	6.00 MHz	Digital	8.70	7.41	-23.17	WVCiel-2	
4	13750	13771	1M00G7W	72.37	48.4	T	1.00 MHz	Digital	9.97	9.93	-14.00	WVCiel-2	
5	13779	14000	36M0G7W	85.00	45.4	T	36.0 MHz	Digital	22.60	181.97	-17.00	WVCiel-2	
6	10950	11200	1M00G7W			R	1.00 MHz	Digital				WVCiel-2	
7	11450	12200	1M00G7W			R	1.00 MHz	Digital				WVCiel-2	
8	10950	11200	36M0G7W			R	36.0 MHz	Digital				WVCiel-2	
9	11450	12200	36M0G7W			R	36.0 MHz	Digital				WVCiel-2	

PICComms:
 PERMITTED LIST @
 TELSTAR 11N (S2357) @ 37.5 W.L.

Denali hereby requests the following changes/corrections to the subject application referenced below:

1. The site coordinates should be Lat: 41 12 07 N Lon: 74 31 35 W (WGS84) and zip code should be 07461 (Sussex, NJ).
2. Eliminate the 1M00G7W emission between 13772 MHz and 13778 MHz and replace with 6M00G7W in this band at 71 dBW/6 MHz or 39.23 dBW/4 kHz.
3. Correct EIRP density for the 36M0G7W emission between 14000 and 14500 MHz to 45.4 dBW/4 kHz.

File Number: SES-LIC-20201117-01252
Call Sign: E202189
Streamlined: N/A
Environmental Impact: N
Status: System Entry
Red Light: N
Status Date: 11/17/2020
Last Action: None
Grant Date: None
DA #: None

Accepted For Filing PN Date: None
Action Taken PN Date: None
Term Begin Date: None
Term End Date: None
Date Filed: 11/17/2020

Last Action Date: None
Bond Date: None
Adopted Date: None

From: Jae Lim <Jae.Lim@fcc.gov>

Sent: Wednesday, January 27, 2021 10:47 AM

To: Joseph Massey <jmassey@usei-teleport.com>

Cc: Kevin Moscatiello <kmoscatiello@usei-teleport.com>; Edwards, Gary <gedwards@comsearch.com>; Darryl White <dwhite@usei-teleport.com>

Subject: RE: SES-LIC-20201117-01252; Call Sign: E202189

Hi Joseph,

Thanks for this reply.

So the coordinates should be 41 12 07 N 74 31 35 W (WGS84) and zip code should be 07461.

Please also see my previous emails and the screenshot about 71 dBW/6MHz in 13.77-13.78 NTIA requires if you want to use the Fed freq bands.

Here's my calculation:

47.1 dBW/4K = 78.86 dBW/6M

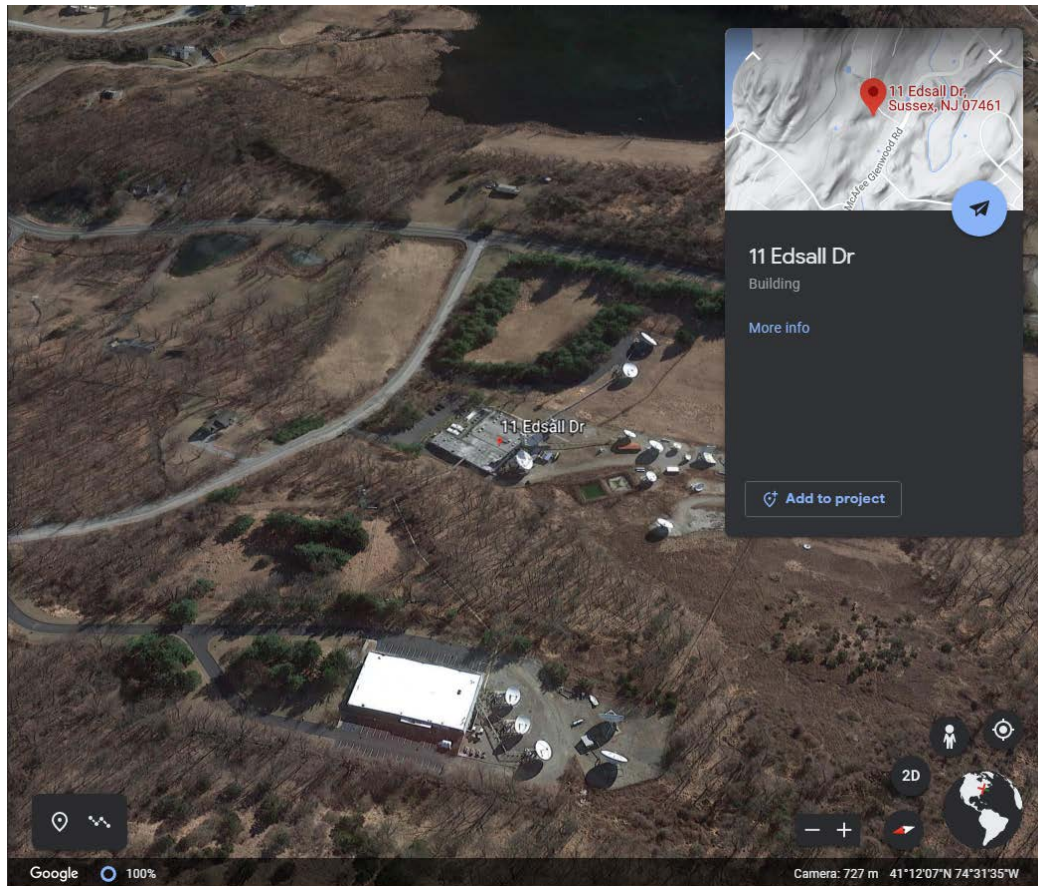
48.4 dBW/4K = 80.16 dBW/6M

45.4 dBW/4K = 77.16 dBW/6M

You would have to file the pleading or Amendment before it gets updated in the IBFS.

Please let me know if you have any question.

Jae Lim
FCC/IB



File No:	SES-LIC-20201117-01252	Call Sign:	E202189	Filing State:	Pending	Status:	AFP	Status Date:	Nov 17 2020	No. Sites:	6		
Applicant:	Denali 2020, LLC	File Date:	Nov 17 2020	Last Action:		Action Date:							
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	FSS = Fixed Satellite Service								
<input checked="" type="checkbox"/> US Licensed Satellites		Certifications:	Alien Applicant Foreign Corporation										
<input type="checkbox"/> Non-US Licensed Satellites											Routed To: Jae_Lim		
WES Ciel-2													
City:	VERNON VALLEY	County:	Sussex	State:	NJ	Lat:	421210.0N	Lon:	0743139.0W	Gnd (m amsl):	217.9	NAD83	
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output EIRP	Gain (dBi@GHz)	Gain (dBi@GHz)						PTComms:	
1	WVCiel-2	11	347	87.9	61.0 @ 11.95	62.4 @ 14.25						PERMITTED LIST TELSTAR 11N (S2357) @ 37.5 W.L.	
Crd Row	Freq Lo (MHz)	Freq Hi (MHz)	SatArc (East)	SatArc (West)	Elev (East)	Elev (West)	Azim (East)	Azim (West)	Calc Elev (West)	Calc Elev (East)	Calc Azim (West)	Calc Azim (East)	Antenna ID
1	14000	14500	3W	143W	5.1	7.4	102.4	255.4	4.9	7.1	102.6	255.2	WVCiel-2
2	10950	11200	3W	143W	5.1	7.4	102.4	255.4	4.9	7.1	102.6	255.2	WVCiel-2
3	11450	12200	3W	143W	5.1	7.4	102.4	255.4	4.9	7.1	102.6	255.2	WVCiel-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	36M0G7W	85.00	-39.50	T	36.0 MHz	Digital	22.60	181.97	-22.90	WVCiel-2	
2	14000	14500	1M00G7W	72.37	48.40	T	1.00 MHz	Digital	9.97	9.93	-14.00	WVCiel-2	
3	13772	13778	1M00G7W	71.10	47.1	T	1.00 MHz	Digital	8.70	7.41	-15.30	WVCiel-2	
4	13750	13771	1M00G7W	72.37	48.4	T	1.00 MHz	Digital	9.97	9.93	-14.00	WVCiel-2	
5	13779	14000	36M0G7W	85.00	45.4	T	36.0 MHz	Digital	22.60	181.97	-17.00	WVCiel-2	
6	10950	11200	1M00G7W			R	1.00 MHz	Digital				WVCiel-2	
7	11450	12200	1M00G7W			R	1.00 MHz	Digital				WVCiel-2	
8	10950	11200	36M0G7W			R	36.0 MHz	Digital				WVCiel-2	
9	11450	12200	36M0G7W			R	36.0 MHz	Digital				WVCiel-2	

From: Joseph Massey <jmassey@usei-teleport.com>

Sent: Wednesday, January 27, 2021 10:23 AM

To: Jae Lim <Jae.Lim@fcc.gov>

Cc: Kevin Moscattiello <kmoscattiello@usei-teleport.com>; Edwards, Gary <gedwards@comsearch.com>; Darryl White <dwhite@usei-teleport.com>

Subject: RE: SES-LIC-20201117-01252; Call Sign: E202189

Jae Lim,

The address for this location should be : 11 Edsall Drive, Sussex, NJ, 07461.

See attached photo.

The site coordinates shown below are correct at red mark out.

The specific antenna is marked in blue on the left side of the photo.

Disregard the Convergence Solar mark out. That does not exist on USEI's property.

Regards,

Joe Massey

From: Jae Lim <Jae.Lim@fcc.gov>

Sent: Tuesday, January 26, 2021 2:48 PM

To: Joseph Massey <jmassey@usei-teleport.com>

Cc: Kevin Moscattiello <kmoscattiello@usei-teleport.com>; Edwards, Gary <gedwards@comsearch.com>; Darryl White <dwhite@usei-teleport.com>

Subject: RE: SES-LIC-20201117-01252; Call Sign: E202189

Hi Joseph,

I appreciate this information.

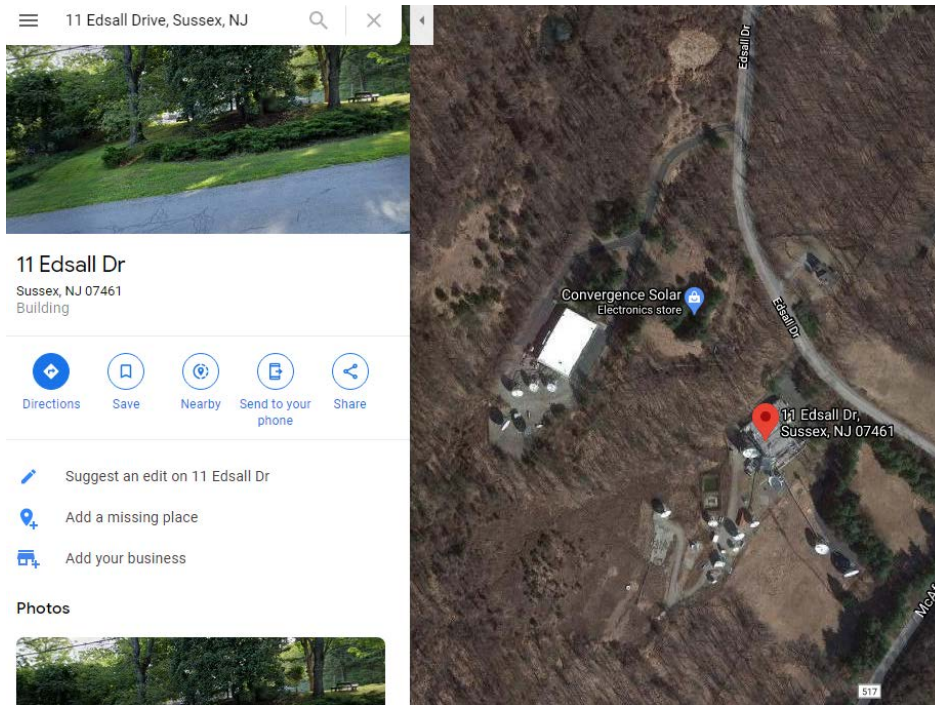
We looked for your antenna at coordinates you provided and are not able to find the antenna.

Site ID:	WES Ciel-2						
Contact Person:	Kevin J. Moscattiello	Phone Number:	973-823-6006				
Street:	11 EDSALL DRIVE						
City:	VERNON VALLEY	State:	NJ	Zipcode:	07642	County:	Sussex
Area of Operation:	New Jersey						
FAA Notification:	<input type="radio"/> Yes <input type="radio"/> No	Comply 25.209(a):	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A				
Frequency Coordination Required:	<input type="radio"/> Yes <input type="radio"/> No	Comply 25.209(a2):	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A				
Foreign Frequency Coordination Required:	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	Remote Control:	<input type="radio"/> Yes <input type="radio"/> No				
Latitude:	42	12	10	N	Elevation (meters):	217.9	
Longitude:	74	31	39	W	NAD Indicator:	NAD-83	

We are thinking the site address and coordinates don't match.

Please confirm the site address, zip code, and coordinates.

Please let us know location of your antenna in Google earth.



Freq bands 13.75-14 GHz needs NTIA coordination according to US357:
Please verify frequencies in green and red are correct for NTIA coordination.

US357 In the band 13.75-14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the ITU Radiocommunication Bureau (Bureau) prior to 31 January 1992 shall operate on an equal basis with stations in the fixed-satellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band:

a) the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in geostationary-satellite orbit shall not exceed 71 dBW in any 6 MHz band from 13.77 to 13.78 GHz;

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Federal Communications Commission

b) the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in non-geostationary-satellite orbit shall not exceed 51 dBW in any 6 MHz band from 13.77 to 13.78 GHz.

Automatic power control may be used to increase the e.i.r.p. density in any 6 MHz band in these frequency ranges to compensate for rain attenuation, to the extent that the power flux-density at the fixed-satellite service space station does not exceed the value resulting from use by an earth station of an e.i.r.p. of 71 dBW or 51 dBW, as appropriate, in any 6 MHz band in clear-sky conditions.

Please submit a Pleading or Amendment to update your LIC application.
I can only update the minor data in IBFS and need your Pleading or Amendment in this case.
Thanks again.

Jae Lim
FCC/IB

From: Joseph Massey <jmassey@usei-teleport.com>
Sent: Tuesday, January 26, 2021 9:23 AM
To: Jae Lim <Jae.Lim@fcc.gov>
Cc: Kevin Moscatiello <kmosciello@usei-teleport.com>; Edwards, Gary <gedwards@comsearch.com>; Darryl White <dwhite@usei-teleport.com>
Subject: SES-LIC-20201117-01252; Call Sign: E202189

Jae Lim,

Below are my responses to your email to USEI on January 21.

1. These site coordinates are correct.
2. You are correct; the 47.1 dBW/4 kHz is too high for that portion of spectrum. By FCC rule the minimum EIRP in Ku band is 68 dBw. Therefore, for the proposed 1M00G7W carrier I suggest an EIRP density of 44 dBW/ 4 kHz which would result in an EIRP for this carrier of 68 dBW.
3. It is my understanding that in this portion of spectrum, 13750-13771, the maximum EIRP permitted is 85 dBW. The EIRP density as proposed results in an EIRP of 72.4 dBW which should satisfy the regulation.
4. The 85 dBW limit also applies to the 13779-14000 MHz spectrum. The proposed EIRP density of 45.4 dBW/ 4 kHz would result in an EIRP of 84.9 dBW.
5. All the frequencies listed on the attached tables are correct for our use.

Re:

Please consider submitting a pleading or amendment for your LIC application.

1. Please verify location of your antenna at 42 12 10 n 74 31 39 w
2. Eirp Density (47.1 dBW/4kHz) on 13772-13778 1M00G7W exceed 71 dBW/6MHz; please consider lowering
3. Eirp Density (48.4 dBW/4kHz) on 13750-13771 1M00G7W exceed 71 dBW/6MHz; please consider lowering
4. Eirp Density (45.4 dBW/4kHz) on 13779-14000 36M0G7W exceed 71 dBW/6MHz; please consider lowering
5. Please verify all frequencies in green and red are correct and will be used. These require NTIA coordination.

Thanks.

Jae Lim
FCC/IB

File No.	SES-LIC-20201117-01252	Call Sign	E202189	Filing State	Pending	Status	APP	Status Date	Nov 17 2020 6	No. Sites																																																																																																																																																																																											
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PCComms:
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TELSTAR 11N (\$2357) @ 37.5 W/L

Best Regards,

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