

From: George Varkey
To: Jae Lim; Petra Vorwig
Subject: RE: SES-RWL-20200224-00197; Call Sign: E950056
Date: Wednesday, August 12, 2020 1:57:56 PM
Attachments: image001.png
image002.png

Hi Jae,

Thank you for coming back with a solution. I think this is the right suggestion to address the issue. I also would have used the same approach to find the numbers. So, let us use the numbers in the spreadsheet as given below and update the license parameters accordingly.

Thank you again for your support to resolve the problem.

Stay safe!

With kind regards,

George Varkey
4 Research Way • Princeton • New Jersey
Tel +1 609 987 4327 • Mobile +1 609 480 0019

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Wednesday, August 12, 2020 12:10 PM
To: George Varkey <George.Varkey@ses.com>; Petra Vorwig <Petra.Vorwig@ses.com>
Subject: RE: SES-RWL-20200224-00197; Call Sign: E950056

Hi George,

We understand this has been operating for many years, and my supervisor, paul Blais, advised me to use the ibfstools calculated Coord data, input power, and output eirp.

If you need to change, please let me know before close of business 8/14/2020.

Thanks.

File No.	SES-RWL-20200224-00197	Call Sign	E950056	Filing State	Current Authorization	Status	A/C	Status Date	Feb 27 2020 4:
Applicant	MX1 Inc.	File Date	Feb 24 2020	Last Action	GRA	Action Date	Feb 27 2020 4:	No. Sites	1
Class of Station	Fixed Earth Stations	Type of Facility	Transmit/Receive	Nature of Service	FSS	Fixed Satellite Service			
☒ US Licensed Satellites	Certifications	Alien Applicant							
☐ Non-US Licensed Satellites	Foreign Corporation								
Routed To: Jae_Lim									
1									
City	HAWLEY (13)	County	PIKE	State	PA	Lat	412749.9N	Lon	0750748.4W
Ant. Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dB@GHz)	Gain (dB@GHz)	Calc Elev (W/est)	Calc Elev (E/ast)	Calc Azim (W/est)
1	1	13	977.24	86.1	53.2 @ 4	56.2 @ 6			
Cid Row	Freq Lo (MHz)	Freq Hi (MHz)	SatArc (E/ast)	SatArc (W/est)	Elev (E/ast)	Elev (W/est)	Azim (E/ast)	Azim (W/est)	Calc Elev (W/est)
1	3700	4200	4W	146W	6.4	5.6	102.8	257.1	5.4
2	5925	6425	4W	146W	6.4	5.6	102.8	257.1	5.4
Cid Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Eirp Density (dBW/4kHz)	T/R	Bandwidth	Modulation	Pt (dBW)
1	6423.5	6423.5	822KF3D	77.70	55.40	T	822 kHz Analog	21.50	141.25
2	6423.5	6423.5	456KF3K	77.70	57.90	T	456 kHz Analog	21.50	141.25
3	6422	6422	2M8OF2D	75.80	70.70	T	2.80 MHz Digital	19.60	91.20
4	6422	6422	2M7OF3K	75.80	70.70	T	2.70 MHz Analog	19.60	91.20
5	5928	5928	2M8OF2D	75.80	70.70	T	2.80 MHz Digital	19.60	91.20
6	5928	5928	2M7OF3K	75.80	70.70	T	2.70 MHz Analog	19.60	91.20
7	5926.5	5926.5	822KF3D	77.70	55.40	T	822 kHz Analog	21.50	141.25
8	5926.5	5926.5	456KF3K	77.70	57.90	T	456 kHz Analog	21.50	141.25
9	5925	6425	32M4F9W	83.20	56.20	T	32.4 MHz Analog	27.00	501.19
10	5925	6425	31M0G7W	86.10	48.00	T	31.0 MHz Digital	29.90	977.24
11	5925	6425	1M24G7W	73.30	49.20	T	1.24 MHz Digital	17.10	51.29
12	5925	6425	44K8G7W	58.90	49.20	T	44.8 kHz Digital	2.70	1.86
13	5925	6425	38K4G7W	58.20	49.20	T	38.4 kHz Digital	2.00	1.58
14	3700	4200	225KG2D			R	225 kHz Digital		
15	3700	4200	150KG8D			R	150 kHz Analog		
16	3700	4200	200KG3K			R	200 kHz Analog		
17	3700	4200	63KG8D			R	63.0 kHz Analog		
18	3700	4200	133KG7D			R	133 kHz Digital		
19	3700	4200	112KG3K			R	112 kHz Analog		

From: George Varkey <George.Varkey@ses.com>
Sent: Tuesday, August 11, 2020 3:24 PM
To: Jae Lim <Jae.Lim@fcc.gov>; Petra Vorwig <Petra.Vorwig@ses.com>
Subject: RE: SES-RWL-20200224-00197; Call Sign: E950056

Hi Jae,

Thank you for coming back to us regarding the renewal of the license. Since the license has been in effect since 1994, if we perform a frequency coordination now it shall not correlate with the frequency parameters given in the license. Also, I have noticed that the earth station license was renewed until Jan 27, 2035 with the original parameters, although the input and output power values are not mentioned. Please see the attached copy of the renewed license. Is it okay to continue the service of the earth station until the next renewal is due?

Kindly advise how to address the issue.

With kind regards,

George Varkey
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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, August 06, 2020 3:03 PM
To: George Varkey <George.Varkey@ses.com>; Petra Vorwig <Petra.Vorwig@ses.com>
Subject: RE: SES-RWL-20200224-00197; Call Sign: E950056

Hi George Varkey and Petra Vorwig,

I hope all is well with you and your family.

I still haven't heard back from you both.

Please see below and provide requested information.

Thanks.

Jae Lim
FCC/IB

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, July 9, 2020 3:14 PM
To: george.varkey@ses.com; petra.vorwig@ses.com

Subject: RE: SES-RWL-20200224-00197; Call Sign: E950056

Hi George Varkey and Petra Vorwig,

Please see below and submit as a pleading the Coordination data, input power, and output power.

Thanks.

Jae Lim
FCC/IB

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, May 12, 2020 4:53 PM
To: george.varkey@ses.com
Subject: SES-RWL-20200224-00197; Call Sign: E950056

Hi George Varkey,

I hope you and your family are safe and well.

Your RWL application has no coord data, no input power, and no output power.

Its original application, SES-LIC-19941116-00295, was filed and accepted without the coord data.

Please submit as a pleading the Coordination data, input power, and output power.

Thanks.

File No:	SES-RWL-20200224-00197	Call Sign:	E950056	Filing State:	Current Authorization	Status:	A/C	Status Date:	Feb 27 2020 4:
Applicant:	MX1 Inc.	File Date:	Feb 24 2020	Last Action:	GRA	Action Date:	Feb 27 2020 4:	No. Sites:	1
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	FSS = Fixed Satellite Service				
☒ US Licensed Satellites	Certifications:			Alien Applicant	Routed To: Jae_Lim				
☐ Non-US Licensed Satellites	Foreign Corporation								
1									
City:	HAWLEY (13)	County:	PIKE	State:	PA	Lat:	412749.9N	Lon:	0750748.4W
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)	Grnd (m amsl): 263.8		
1	1	13	0	0	53.2 @ 4	56.2 @ 6			
PtConn: PERMITTED LIST @									
Ord Row	Freq Lo (MHz)	Freq Hi (MHz)	SatArc (East)	SatArc (West)	Elev (East)	Elev (West)	Azim (East)	Azim (West)	Calc Elev (East)
No Data									
Antenna ID									
1									
Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Eirp Density (dBW/4kHz)	T/R	Bandwidth	Modulation	Pt (dBW)
1	6423.5	6423.5	822K3D	77.70	55.40	T	822 kHz Analog	21.50	141.25
2	6423.5	6423.5	456K3D	77.70	57.90	T	456 kHz Analog	21.50	141.25
3	6422	6422	2M80F2D	75.80	70.50	T	2.80 MHz Digital	19.60	91.20
4	6422	6422	2M70F3D	75.80	70.70	T	2.70 MHz Analog	19.60	91.20
5	5928	5928	2M80F2D	75.80	70.50	T	2.80 MHz Digital	19.60	91.20
6	5928	5928	2M70F3D	75.80	70.70	T	2.70 MHz Analog	19.60	91.20
7	5926.5	5926.5	822K3D	77.70	55.40	T	822 kHz Analog	21.50	141.25
8	5926.5	5926.5	456K3D	77.70	57.90	T	456 kHz Analog	21.50	141.25
9	5925	6425	32M4F8W	83.20	56.20	T	32.4 MHz Analog	27.00	501.19
10	5925	6425	31M0G7W	86.10	48.00	T	31.0 MHz Digital	25.90	977.24
11	5925	6425	1M24G7W	73.30	49.20	T	1.24 MHz Digital	17.10	51.29
12	5925	6425	44K3G7W	58.90	49.20	T	44.8 kHz Digital	2.70	1.86
13	5925	6425	38K4G7W	58.20	49.20	T	38.4 kHz Digital	2.00	1.58
14	3700	4200	225KG2D			R	225 kHz Digital		
15	3700	4200	150KG8D			R	150 kHz Analog		
16	3700	4200	200KG3D			R	200 kHz Analog		
17	3700	4200	63KG8D			R	63.0 kHz Analog		
18	3700	4200	133KG7D			R	133 kHz Digital		
19	3700	4200	112KG3D			R	112 kHz Analog		

Jae Lim
FCC/IB