

From: James Lovelace
To: Jae Lim
Subject: RE: SES-MFS-20200521-00554; Call Sign: E890649
Date: Wednesday, April 7, 2021 7:49:46 PM
Attachments: image001.png
image002.png
image003.png

Hello,

Following below are Emission Designator correctios to replace those Emission Designators which are not in compliance with 25.204(f). Please replace the 6M00 and 21M0 Emission Designators with the following 56M0 Emission Designators:

Antenna	Frequency	Replacement Emission Designator	E.38 Total Power at Antenna Flange For All Carriers (W)	E40. Total EIRP For All Carriers (dBW)	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum EIRP Density per Carrier (dBW/4KHz)	Best regards, Jim Lovelace James G. Lovelace Contractor Tel: +1 571.599.3643 Web: comsat.com Location: COMSAT, Inc. 2550 Wassier Terrace, Suite 6000 Herndon, VA 20171 USA
SAPA15Ku	13750-13806	56M0F7W	200	86.0	69.9	27.4	
SAPA15Ku	13750-13806	56M0F1W	200	86.0	69.9	27.4	
SAPA15Ku	13750-13806	56M0D7W	200	86.0	69.9	27.4	
SAPA15Ku	13750-13806	56M0D1W	200	86.0	69.9	27.4	
							From: Jae Lim <Jae.Lim@fcc.gov> Sent: Thursday, April 1, 2021 1:08 PM To: James Lovelace <JLovelace.ctr@comsat.com>

Subject: RE: SES-MFS-20200521-00554; Call Sign: E890649

[***WARNING! THIS EMAIL ORIGINATES FROM OUTSIDE COMSAT**]

Hi Jim,

Per CFR 47 Part 25.204(f) , 64.9 and 65.1 are below the range 68-85 dBW.

25.204(f) An earth station in the Fixed-Satellite Service transmitting in the 13.75-14 GHz band must have a minimum antenna diameter of 4.5 m, and the EIRP of any emission in that band should be at least 68 dBW and should not exceed 85 dBW.

Please submit a pleading for or email me the correction.

Thanks.

Jae Lim
FCC/IB

File No.	SES-MFS-20200521-00554	Call Sign	E890649	Filing State	Pending	Status	UNBLK	Status Date	Oct 15 2020 5						
Applicant	Comsat, Inc.	File Date	May 21 2020	Last Action		Action Date		No. Sites	16						
Class of Station	Fixed Earth Stations	Type of Facility	Transmit/Receive	Nature of Service	FSS - Fixed Satellite Service										
☒ US Licensed Satellites		Certifications	OK	Requires Freq Coord Exhibit for SAPA15KU											
☐ Non-US Licensed Satellites															
						Routed To	Jae_Lm								
STL5009	SAPA15KU	STL4003A	STL6006	STL4006	STL4009/10	STL5010	STL6009	INTLV110	STL4996T	INTLV80G	STL30/3011	TJISAIL900	STL979T	INTLV60G	SAPA41KU
City	SANTA PAULA	County	VENTURA	State	CA	Lat	342407.0N	Lon	1190421.3W	Grid (m amsl)	202.42	NAD83			
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output EIRP	Gain (dB@GHz)	Gain (dB@GHz)									
1	SAPA15KU	14.2	200	86	63.1 @ 12.13	64.6 @ 14.13									
PtComms: EUTELSAT172B(S3021) @ 172 E.L. SES-11 (S2964) @ 104.95 W.L. EUTELSAT174A(S2610) @ 174 E.L. PERMITTED LIST @															
Crd Row	Freq Lo (MHz)	Freq Hi (MHz)	SatArc (E/East)	SatArc (W/West)	Elev (E/East)	Elev (W/West)	Azim (E/East)	Azim (W/West)	Calc Elev (E/East)	Calc Elev (W/West)	Calc Azim (E/East)	Calc Azim (W/West)	Antenna ID		
1	13779	14500	46W	192W	5.2	5.4	99.8	260.2	5.2	5.4	99.8	260.2	SAPA15KU		
2	13772	13778	46W	192W	5.2	5.4	99.8	260.2	5.2	5.4	99.8	260.2	SAPA15KU		
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	13799	14500	72M0F7W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU			
2	13779	14500	72M0F1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU			
3	13779	14500	72M0D1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU			
4	13772	13778	6M00F7W	64.9	33.10	T	6.00 MHz	Digital	0.30	1.07	-31.50	SAPA15KU			
5	13772	13778	6M00F1W	64.9	33.10	T	6.00 MHz	Digital	0.30	1.07	-31.50	SAPA15KU			
6	13772	13778	6M00D1W	64.9	33.10	T	6.00 MHz	Digital	0.30	1.07	-31.50	SAPA15KU			
7	13779	14500	72M0D7W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU			
8	13772	13778	6M00D7W	64.9	33.10	T	6.00 MHz	Digital	0.30	1.07	-31.50	SAPA15KU			
9	13750	14500	32K0F7W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	SAPA15KU			
10	13750	14500	32K0F1W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	SAPA15KU			
11	13750	14500	32K0D7W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	SAPA15KU			
12	13750	14500	32K0D1W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	SAPA15KU			
13	13750	13771	21M0F7W	65.1	27.90	T	21.0 MHz	Digital	0.50	1.12	-36.70	SAPA15KU			
14	13750	13771	21M0F1W	65.1	27.90	T	21.0 MHz	Digital	0.50	1.12	-36.70	SAPA15KU			
15	13750	13771	21M0D7W	65.1	27.90	T	21.0 MHz	Digital	0.50	1.12	-36.70	SAPA15KU			
16	13750	13771	21M0D1W	65.1	27.90	T	21.0 MHz	Digital	0.50	1.12	-36.70	SAPA15KU			
17	11450	12200	72M0F7W			R	72.0 MHz	Digital				SAPA15KU			
18	11450	12200	72M0F1W			R	72.0 MHz	Digital				SAPA15KU			
19	11450	12200	72M0D7W			R	72.0 MHz	Digital				SAPA15KU			
20	11450	12200	72M0D1W			R	72.0 MHz	Digital				SAPA15KU			
21	11450	12200	32K0F7W			R	32.0 kHz	Digital				SAPA15KU			
22	11450	12200	32K0F1W			R	32.0 kHz	Digital				SAPA15KU			

From: James Lovelace <JLovelace.ctr@comsat.com>
Sent: Wednesday, March 24, 2021 1:48 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Subject: RE: SES-MFS-20200521-00554; Call Sign: E890649

Hello,

Following below are the Emission Designator corrections needed to replace those for which the bandwidth was greater than the frequency bands:

Antenna	Frequency	Invalid Emission Designator	Corrected Emission Designator	E40. Total EIRP For All Carriers (dBW)	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum EIRP Density per Carrier (dBW/4KHz)	From: James
SAPA15KU	13750-13771	72M0D1W	21M0D1W	86.0	65.1	27.9	
SAPA15KU	13750-13771	72M0D7W	21M0D7W	86.0	65.1	27.9	
SAPA15KU	13750-13771	72M0F7W	21M0F7W	86.0	65.1	27.9	

SAPA15KU 13750-13771 72M0F1W 21M0F1W 86.0 65.1 27.9
SAPA15KU 13772-13778 72M0F1W 6M00F1W 86.0 64.9 33.1
SAPA15KU 13772-13778 72M0F7W 6M00F7W 86.0 64.9 33.1
SAPA15KU 13772-13778 72M0D7W 6M00D7W 86.0 64.9 33.1
SAPA15KU 13772-13778 72M0D1W 6M00D1W 86.0 64.9 33.1

All of the above are Transmit Emission Designators using Linear Polarization and E50 Modulation and Services for all is - Digital Traffic Using Phase and Amplitude Modulation

Please let me know if this email satisfies your needs or if you would like me to file a pleading with the correction. I am available at your convenience at 202-327-0654 if you want to talk to me about this.

Thanks much for your help.

Best regards,
Jim Lovelace

Lovelace

Sent: Friday, March 19, 2021 1:07 PM

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

Subject: RE: SES-MFS-20200521-00554; Call Sign: E890649

Hello,

I have the COMSAT engineers working on the calculations for any EIRP and EIRP density changes that may be needed. I will get the corrections to you as soon as I receive the calculations.

Thanks and best regards,
Jim Lovelace

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

Sent: Thursday, March 18, 2021 4:20 PM

To: James Lovelace <JLovelace_ctr@comsat.com>; Sandy Clatworthy <SClatworthy@comsat.com>

Subject: SES-MFS-20200521-00554; Call Sign: E890649

[***WARNING! THIS EMAIL ORIGINATES FROM OUTSIDE COMSAT**]

Hi James Lovelace and Sandra Clatworthy,

Your Schedule B has multiple issues with bandwidth greater than the frequency bands.

For example, 72MHz bandwidth is greater than 13750-13771 MHz band bandwidth.

Please email me all corrected bandwidth numbers for SAPA15KU and any changes to EIRP and EIRP density.

Thanks.

Jae Lim

FCC/IB

File No.	SES-MFS-20200521-00554	Call Sign	E890649	Filing State	Pending	Status	UNBLK	Status Date	Oct 15 2020	No. Sites	5				
Applicant	Comsat, Inc.	File Date	May 21 2020	Last Action		Action Date									
Class of Station	Fixed Earth Stations	Type of Facility	Transmit/Receive	Nature of Service	FSS - Fixed Satellite Service						16				
☒ US Licensed Satellites	Certifications	OK	Requires Freq. Coord. Exhibit for SAPA15KU												
☐ Non-US Licensed Satellites															
STL5009	SAPA15KU	STL4003A	STL6006	STL4006	STL4009/10	STL5010	STL6009	INTLV110	STL4996T	INTLV80G	STL30/3011	TLSAIL900	STL9797	INTLV60G	SAPA14KU
City	SANTA PAULA	County	VENTURA	State	CA	Lat	342407.0N	Lon	1190421.3W	Gnd (m amsl)	202.42				NAD83
Ant. Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Power (W)	Gain (dBi@GHz)	Gain (dBi@GHz)									
1	SAPA15KU	14.2	200	86	63.1 @ 12.13	64.6 @ 14.13									
Ord. Row	Freq Lo (MHz)	Freq Hi (MHz)	Sat Arc (East/West)	Sat Arc (East/West)	Elev (East/West)	Elev (East/West)	Azim (East/West)	Azim (East/West)	Calc Elev (East/West)	Calc Elev (East/West)	Calc Azim (East/West)	Calc Azim (East/West)	Antenna ID		
1	13779	14500	46W	192W	5.2	5.4	99.8	260.2	5.2	5.4	99.8	260.2	SAPA15KU		
2	13772	13778	46W	192W	5.2	5.4	99.8	260.2	5.2	5.4	99.8	260.2	SAPA15KU		
3	13799	14500	72M0F7W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
4	13779	14500	72M0F1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
5	13779	14500	72M0D1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
6	13772	13778	72M0F7W	81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	-40.10	SAPA15KU		
7	13772	13778	72M0F1W	81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	-40.10	SAPA15KU		
8	13772	13778	72M0D1W	81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	-40.10	SAPA15KU		
9	13779	14500	72M0D7W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
10	13772	13778	72M0D7W	81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	-40.10	SAPA15KU		
11	13750	14500	32K0F7W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	-61.63	SAPA15KU		
12	13750	14500	32K0F1W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	-61.63	SAPA15KU		
13	13750	14500	32K0D7W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	-61.63	SAPA15KU		
14	13750	14500	32K0D1W	68.60	2.97	T	32.0 kHz	Digital	4.00	2.51	-61.63	-61.63	SAPA15KU		
15	13750	13771	72M0F7W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
16	13750	13771	72M0F1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
17	13750	13771	72M0D1W	81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	-36.10	SAPA15KU		
18	11450	12200	72M0F7W			R	72.0 MHz	Digital					SAPA15KU		
19	11450	12200	72M0F1W			R	72.0 MHz	Digital					SAPA15KU		
20	11450	12200	72M0D7W			R	72.0 MHz	Digital					SAPA15KU		
21	11450	12200	72M0D1W			R	72.0 MHz	Digital					SAPA15KU		
22	11450	12200	32K0F7W			R	32.0 kHz	Digital					SAPA15KU		
23	11450	12200	32K0F1W			R	32.0 kHz	Digital					SAPA15KU		
24	11450	12200	32K0D7W			R	32.0 kHz	Digital					SAPA15KU		
25	10950	11200	72M0F7W			R	72.0 MHz	Digital					SAPA15KU		
26	10950	11200	72M0F1W			R	72.0 MHz	Digital					SAPA15KU		
27	10950	11200	72M0D7W			R	72.0 MHz	Digital					SAPA15KU		
28	10950	11200	72M0D1W			R	72.0 MHz	Digital					SAPA15KU		
29	10950	11200	32K0F7W			R	32.0 kHz	Digital					SAPA15KU		
30	10950	11200	32K0F1W			R	32.0 kHz	Digital					SAPA15KU		
31	10950	11200	32K0D7W			R	32.0 kHz	Digital					SAPA15KU		
32	10950	11200	32K0D1W			R	32.0 kHz	Digital					SAPA15KU		

PCComms:
EUTELSAT1728(S.3021) @ 172 E.L.
SES-11 (S2964) @ 104.95 W.L.
EUTELSAT1744(S.2610) @ 174 E.L.
PERMITTED LIST @

