

From: [James Lovelace](mailto:James.Lovelace)
To: [Jae Lim](mailto:Jae.Lim)
Subject: RE: SES-MFS-20200521-00554; Call Sign: E890649
Date: Wednesday, March 24, 2021 1:48:39 PM
Attachments: [image001.png](#)
[image002.png](#)

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 5:00
 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 No. Sites: 16
 US Licensed Satellites
 Non-US Licensed Satellites Certifications: OK Requires Freq. Coord. Exhibit for SAPA15KU Routed To: Jae_Lim

STL5009	SAPA15KU	STL4003A	STL6006	STL4006	STL4009/10	STL5010	STL6008	INTLV110	STL496T	INTLV80G	STL30/3011	TISAIL900	STL9797	INTLV60G	SAPA141KU
City:	SANTA PAULA	County:	VENTURA	State:	CA	Lat:	342407.0N	Lon:	1190421.3W	Grnd (m amsl):	202.42	NAD83			

Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Power (W)	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 @

Ord 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	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	13779	14500	72M0D1W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU
4	13772	13778	72M0F7W		81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	SAPA15KU
5	13772	13778	72M0F1W		81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	SAPA15KU
6	13772	13778	72M0D1W		81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	SAPA15KU
7	13779	14500	72M0D7W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU
8	13772	13778	72M0D7W		81.60	24.50	T	72.0 MHz	Digital	17.00	50.12	-40.10	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	72M0F7W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU
14	13750	13771	72M0F1W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU
15	13750	13771	72M0D7W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	SAPA15KU
16	13750	13771	72M0D1W		81.60	28.50	T	72.0 MHz	Digital	17.00	50.12	-36.10	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
23	11450	12200	32K0D7W				R	32.0 kHz	Digital				SAPA15KU
24	11450	12200	32K0D1W				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