

From: Brooks, Daniel
To: Jae Lim
Cc: Hindin, Jennifer
Subject: RE: SES-MFS-20210125-00146; Call Sign: E060014
Date: Wednesday, April 7, 2021 10:24:12 AM
Attachments: image003.png
image004.png
image005.png

Good morning, Jae. For items 1, 2, and 3 in your email below, please use **Input Power of 190.55W** for each of these.

For item 4, please use **SatArc (East) of -80 and SatArc (West) of -120**.

Best,
Dan

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, April 6, 2021 4:08 PM
To: Brooks, Daniel <DBrooks@wiley.law>
Cc: Hindin, Jennifer <JHindin@wiley.law>
Subject: RE: SES-MFS-20210125-00146; Call Sign: E060014

External Email

Hi Dan,

Thanks for this information.

We need to make some additional changes to your schedule B.

Please provide the following information:

1. Power (204.17 W) on 28350-28600 54M0G7W exceeds Max Input Power 191.00 W for Antenna. Please consider changing EIRP or Input Power.
2. Power (204.17 W) on 28350-28600 36M0G7W exceeds Max Input Power 191.00 W for Antenna. Please consider changing EIRP or Input Power.
3. Power (204.17 W) on 28350-28600 24M0G7W exceeds Max Input Power 191.00 W for Antenna. Please consider changing EIRP or Input Power.
4. Although currently SatArc 80-120 are authorized in your license, do you want to change these SatArc for calculated 5 degree elev? IBFS calculated and tells me Elev are -45.6 and -50.7 degrees.

Thanks.

Jae Lim
FCC/IB

File No:	SES-MFS-20210125-00146	Call Sign:	E060014	Filing State:	Pending	Status:	FPRVD	Status Date:	Mar 5 2021 11:	No. Sites:	1		
Applicant:	DIRECTV Enterprises, LLC												
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	DHFS = Direct to Home Fixed Satellite FSS = Fixed Satellite Service								
☒ US Licensed Satellites	Certifications: Alien Applicant Foreign Corporation												
☒ Non-US Licensed Satellites	Routed To: Jae_Lim												
NEUF													
City:	New Hampton	County:		State:	NH	Lat:	433724.2N	Lon:	0713832.4W	Grnd (m amsl):	157		
Ant Row:	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)	Gain (dBi@GHz)	PtComms:					
1	NEUF	3.5	191	81.1	55.2 @ 19.95	58.3 @ 29.6	58.0 @ 28.5	SPACEWAY 2 (S2133) @ 138.9 W.L. DIRECTV 8 (D) @ 119.05 PERMITTED LIST @					
Cid 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	29250	30000	80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	163.4	NEUF
2	28350	28600	80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	163.4	NEUF
3	19700	20200	80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	163.4	NEUF
4	18300	18800	80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	163.4	NEUF
Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	EIRP Density (dBW/4kHz)	T/R	Bandwidth	Modulation	Pt (dBW)	Pt (W)	F.U. (dBW/4kHz)	Antenna ID	
1	29250	30000	8M50G7W	76.60	43.30	T	8.50 MHz	Digital	18.30	67.61	-15.00	NEUF	
2	29250	30000	14M1G7W	78.80	43.30	T	14.1 MHz	Digital	20.50	112.20	-15.00	NEUF	
3	29250	30000	5M70G1W	74.90	43.30	T	5.70 MHz	Digital	16.60	45.71	-15.00	NEUF	
4	29250	30000	2M90G1W	71.90	43.30	T	2.90 MHz	Digital	13.60	22.91	-15.00	NEUF	
5	29250	30000	2M20G1W	70.70	43.30	T	2.20 MHz	Digital	12.40	17.38	-15.00	NEUF	
6	29250	30000	22M6G7W	80.80	43.30	T	22.6 MHz	Digital	22.50	177.83	-15.00	NEUF	
7	29250	30000	54M0G7W	81.10	39.80	T	54.0 MHz	Digital	22.80	190.55	-18.50	NEUF	
8	29250	30000	36M0G7W	81.10	41.60	T	36.0 MHz	Digital	22.80	190.55	-16.70	NEUF	
9	29250	30000	24M0G7W	81.10	43.30	T	24.0 MHz	Digital	22.80	190.55	-15.00	NEUF	
10	28350	28600	8M50G7W	76.60	43.30	T	8.50 MHz	Digital	18.60	72.44	-14.70	NEUF	
11	28350	28600	14M1G7W	78.80	43.30	T	14.1 MHz	Digital	20.80	120.23	-14.70	NEUF	
12	28350	28600	5M70G1W	74.90	43.30	T	5.70 MHz	Digital	16.90	48.98	-14.70	NEUF	
13	28350	28600	2M90G1W	71.90	43.30	T	2.90 MHz	Digital	13.90	24.55	-14.70	NEUF	
14	28350	28600	2M20G1W	70.70	43.30	T	2.20 MHz	Digital	12.70	18.62	-14.70	NEUF	
15	28350	28600	22M6G7W	80.80	43.30	T	22.6 MHz	Digital	22.80	190.55	-14.70	NEUF	
16	28350	28600	54M0G7W	81.10	39.80	T	54.0 MHz	Digital	23.10	204.17	-18.20	NEUF	
17	28350	28600	36M0G7W	81.10	41.60	T	36.0 MHz	Digital	23.10	204.17	-16.40	NEUF	
18	28350	28600	24M0G7W	81.10	43.30	T	24.0 MHz	Digital	23.10	204.17	-14.70	NEUF	
19	19700	20200	8M50G7W	.00	0.00	R	8.50 MHz	Digital				NEUF	
20	19700	20200	14M1G7W	.00	0.00	R	14.1 MHz	Digital				NEUF	
21	19700	20200	5M70G1W	.00	0.00	R	5.70 MHz	Digital				NEUF	
22	19700	20200	2M90G1W	.00	0.00	R	2.90 MHz	Digital				NEUF	

From: Brooks, Daniel <DBrooks@wiley.law>
Sent: Monday, April 5, 2021 6:29 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Cc: Hindin, Jennifer <JHindin@wiley.law>
Subject: RE: SES-MFS-20210125-00146; Call Sign: E060014

Hi, Jae; thank you for your email. We would like to leave DIRECTV8 (now known as T8) as a point of communication. This satellite is now operating at 119.05 WL.

However, Spaceway 1 has been deorbited and can therefore be removed as a point of communication.

The antenna gain for 28350-28600 MHz is **58.0 dBi at 28.50 GHz**.

Please let me know if I can provide you with any additional information.

Best,
Dan

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Thursday, April 1, 2021 1:37 PM
To: Brooks, Daniel <DBrooks@wiley.law>
Subject: SES-MFS-20210125-00146; Call Sign: E060014

External Email

Hi,

We are reviewing your MOD application to add the Permitted List to your PntComm.

Please email me the following information:

1. DirectV8@101W is either retired or replaced. Do you want to delete this?
2. What is the Antenna Gain for 28350-28600 MHz?

We will keep and won't change all other numbers as is authorized.

Thanks.

Jae Lim
FCC/IB

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) NEUF to SPACEWAY 1 satellite @103 degrees W.L.
- 2) NEUF to SPACEWAY 2 (S2133) satellite @ 138.9 degrees W.L.
- 3) NEUF to DIRECTV 8 @ 101.0 degrees W.L. of the Direct Broadcast Satellite system (U.S.-licensed)
- 4) NEUF to Permitted Space Station List

File No.	SES-MFS-20210125-00146	Call Sign	E060014	Filing State	Pending	Status	FPRVD	Status Date	Mar 5 2021 11:					
Applicant		DIRECTV Enterprises, LLC		File Date	Jan 25 2021	Last Action		Action Date						
Class of Station		Fixed Earth Stations		Type of Facility	Transmit/Receive	Nature of Service	DHFS = Direct to Home Fixed Satellite FSS = Fixed Satellite Service							
☒ US Licensed Satellites		Certifications		Alien Applicant Foreign Corporation		Routed To		Jae_Lim						
☒ Non-US Licensed Satellites														
NEUF														
City		New Hampton		Country		State	NH	Lat	433724.2N					
Ant						Lon	0713832.4W	Grid (m amsl)	157					
Antenna ID		Diameter (m)		Max Input Power (W)	Max Output EIRP	Gain (dBi@GHz)	Gain (dBi@GHz)	NAD83						
1		3.5		191	81.1	55.2 @ 19.95	58.3 @ 29.6							
PtComm:														
SPACEWAY 1 @ 103 W.L.														
SPACEWAY 2 (S2133) @ 138.9 W.L.														
DIRECTV 8 @ 101 W.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	29250	30000			80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	NEUF
2	28350	28600			80	120	39	20.6	192.1	238.5	-45.6	-50.7	218.0	NEUF
3	19700	20200			00	00	00	00.0	00.0	00.0	-45.6	-50.7	218.0	NEUF
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	29250	30000	9M50G7W	76.60	43.30	T	8.50 MHz	Digital	18.30	67.61	-15.00		NEUF	
2	29250	30000	14M1G7W	78.80	43.30	T	14.1 MHz	Digital	20.50	112.20	-15.00		NEUF	
3	29250	30000	5M70G1W	74.90	43.30	T	5.70 MHz	Digital	16.60	45.71	-15.00		NEUF	
4	29250	30000	2M50G1W	71.90	43.30	T	2.90 MHz	Digital	13.60	22.91	-15.00		NEUF	
5	29250	30000	2M20G1W	70.70	43.30	T	2.20 MHz	Digital	12.40	17.38	-15.00		NEUF	
6	29250	30000	22M6G7W	80.80	43.30	T	22.6 MHz	Digital	22.50	177.83	-15.00		NEUF	
7	29250	30000	54M0G7W	81.10	39.80	T	54.0 MHz	Digital	22.80	190.55	-18.50		NEUF	
8	29250	30000	36M0G7W	81.10	41.60	T	36.0 MHz	Digital	22.80	190.55	-16.70		NEUF	
9	29250	30000	24M0G7W	81.10	43.30	T	24.0 MHz	Digital	22.80	190.55	-15.00		NEUF	
10	28350	28600	9M50G7W	76.60	43.30	T	8.50 MHz	Digital	No Gain Found				NEUF	
11	28350	28600	14M1G7W	78.80	43.30	T	14.1 MHz	Digital	No Gain Found				NEUF	
12	28350	28600	5M70G1W	74.90	43.30	T	5.70 MHz	Digital	No Gain Found				NEUF	
13	28350	28600	2M50G1W	71.90	43.30	T	2.90 MHz	Digital	No Gain Found				NEUF	
14	28350	28600	2M20G1W	70.70	43.30	T	2.20 MHz	Digital	No Gain Found				NEUF	
15	28350	28600	22M6G7W	80.80	43.30	T	22.6 MHz	Digital	No Gain Found				NEUF	
16	28350	28600	54M0G7W	81.10	39.80	T	54.0 MHz	Digital	No Gain Found				NEUF	
17	28350	28600	36M0G7W	81.10	41.60	T	36.0 MHz	Digital	No Gain Found				NEUF	
18	28350	28600	24M0G7W	81.10	43.30	T	24.0 MHz	Digital	No Gain Found				NEUF	
19	19700	20200	9M50G7W	.00	0.00	R	8.50 MHz	Digital					NEUF	
20	19700	20200	14M1G7W	.00	0.00	R	14.1 MHz	Digital					NEUF	
21	19700	20200	5M70G1W	.00	0.00	R	5.70 MHz	Digital					NEUF	

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