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September 11, 2019

REDACTED VERSION

HIGHLY CONFIDENTIAL INFORMATION – SUBJECT TO PROTECTIVE ORDER IN GN DOCKET NO. 18-122 RM-11791, RM-11778 BEFORE THE FEDERAL COMMUNICATIONS COMMISSION

BY ELECTRONIC DELIVERY

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street S.W.
Washington D.C. 20554

Re: Information on Satellite Use of the 3.7-4.2 GHz Band GN Docket No. 18-122

Dear Ms. Dortch:

As required by the Commission's Order addressing the current use of the 3.7-4.2 GHz band,¹ and modified herein to reflect the requirements of the Commission's Protective Order, dated August 26, 2019, Eutelsat S.A., through its counsel, and on behalf of itself and its affiliates, Satelites Mexicanos, S.A. de C.V. and ES 172 LLC, resubmits the following information regarding its satellite fleet operating in the 3.7-4.2 GHz band to provide coverage to the United States. As noted on each page of this filing, much of the material is Highly Confidential and is therefore being filed with the Commission in a manner consistent with the Commission's Protective Order.

- *Satellite call sign, name, orbital location, and expected end-of-life for satellite:*

Name	Call Sign	Satellite Name	Orbit Location Assigned	Launch Date	Expected lifetime
ES 172 LLC	S2610	EUTELSAT 174A	174.0E	29-Dec-05	15+ yrs.
ES 172 LLC	S3021	EUTELSAT 172B	172.0E	01-jun-17	15+ yrs.
Satelites Mexicanos, S.A. de C.V.	S2873	EUTELSAT 117 WA	116.8W	14-jun-16	15+ yrs.
Satelites Mexicanos, S.A. de C.V.	S2938	EUTELSAT 115 WB	114.9W	02-mar-15	15+ yrs.
Satelites Mexicanos, S.A. de C.V.	S2695	EUTELSAT 113 WA	113W	27-may-06	15+ yrs.

¹ *Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, Order and Notice of Proposed Rulemaking, 33 FCC Red 6915, 6923-25, ¶¶ 16-25 (2018).

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- *The approximate dates that any additional C-band (3.7-4.2 GHz band) satellites with a currently pending application in IBFS are planned for launch to serve the United States market (note whether this satellite is a replacement):*

Not applicable.

- *For each transponder on each satellite operating in the 3.7-4.2 GHz range that is operational and legally authorized to serve customers in the United States, provide the following for the most recent month, i.e., for March 2019*
 - *The frequency range of the transponder and the transponder number:*

EUTELSAT 174A (previously EUTELSAT 172A)

	Size (MHz)	Center Freq. (MHz)	Lowest Freq. (MHz)	Highest Freq. (MHz)
01C	36	3720	3702	3738
02C	36	3740	3722	3758
03C	36	3760	3742	3778
04C	36	3780	3762	3798
05C	36	3800	3782	3818
06C	36	3820	3802	3838
07C	36	3840	3822	3858
08C	36	3860	3842	3878
09C	36	3880	3862	3898
10C	36	3900	3882	3918
11C	36	3920	3902	3938
12C	36	3940	3922	3958
13C	72	3980	3944	4016
14C	72	4000	3964	4036
15C	72	4060	4024	4096
16C	72	4080	4044	4116
17C	72	4140	4104	4176
18C	72	4160	4124	4196

EUTELSAT 172B

	Bandwidth (MHz)	Center Freq. (MHz)	Lowest Freq. (MHz)	Highest Freq. (MHz)
C01	36	3720	3702	3738
C02	36	3740	3722	3758
C03	36	3460	3442	3478
C04	36	3780	3762	3798
C05	72	3820	3784	3856

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C06	72	3840	3804	3876
C07	72	3900	3864	3936
C08	72	3920	3884	3956
C09	72	3980	3944	4016
C10	72	4000	3964	4036
C11	72	4060	4024	4096
C12	72	4080	4044	4116
C13	72	4140	4104	4176
C14	72	4160	4124	4196

EUTELSAT 117 WA

	Size (MHz)	Center Freq. (MHz)	Lowest Freq. (MHz)	Highest Freq. (MHz)
C01	36	3720	3702	3738
C02	36	3740	3722	3758
C03	36	3760	3742	3778
C04	36	3780	3762	3798
C05	36	3800	3782	3818
C06	36	3820	3802	3838
C07	36	3840	3822	3858
C08	36	3860	3842	3878
C09	36	3880	3862	3898
C10	36	3900	3882	3918
C11	36	3920	3902	3938
C12	36	3940	3922	3958
C13	36	3960	3942	3978
C14	36	3980	3962	3998
C15	36	4000	3982	4018
C16	36	4020	4002	4038
C17	36	4040	4022	4058
C18	36	4060	4042	4078
C19	36	4080	4062	4098
C20	36	4100	4082	4118
C21	36	4120	4102	4138
C22	36	4140	4122	4158
C23	36	4160	4142	4178
C24	36	4180	4162	4198

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EUTELSAT 115 WB

	Size (MHz)	Center Freq. (MHz)	Lowest Freq. (MHz)	Highest Freq. (MHz)
C01	72	3740	3704	3776
C02	72	3760	3724	3796
C03	72	3820	3784	3856
C04	72	3840	3804	3876
C05	72	3900	3864	3936
C06	72	3920	3884	3956
C07	72	3980	3944	4016
C08	72	4000	3964	4036
C09	72	4060	4024	4096
C10	72	4080	4044	4116
C11	72	4140	4104	4176
C12	72	4160	4124	4196

EUTELSAT 113 WA

	Size (MHz)	Center Freq. (MHz)	Lowest Freq. (MHz)	Highest Freq. (MHz)
C01_N	36	3720	3702	3738
C02_N	36	3740	3722	3758
C03_N	36	3760	3742	3778
C04_N	36	3780	3762	3798
C05_N	36	3800	3782	3818
C06_N	36	3820	3802	3838
C07_N	36	3840	3822	3858
C08_N	36	3860	3842	3878
C09_N	36	3880	3862	3898
C10_N	36	3900	3882	3918
C11_N	36	3920	3902	3938
C12_N	36	3940	3922	3958
C13	36	3960	3942	3978
C14	36	3980	3962	3998
C15	36	4000	3982	4018
C16	36	4020	4002	4038
C17	36	4040	4022	4058
C18	36	4060	4042	4078
C19	36	4080	4062	4098
C20	36	4100	4082	4118
C21	36	4120	4102	4138

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C22	36	4140	4122	4158
C23	36	4160	4142	4178
C24	36	4180	4162	4198

- *The total capacity (megahertz) and in terms of the number of megahertz on each transponder that are currently under contract (also provide this data for one month in 2016).*

EUTELSAT 174A (previously EUTELSAT 172A)

[Information redacted]

	Under contract (March 01, 2016)		
	All (MHz)	US (%)	Non-US (%)
01C			
02C			
03C			
04C			
05C			
06C			
07C			
08C			
09C			
10C			
11C			
12C			
13C			
14C			
15C			
16C			
17C			
18C			
Total			

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EUTELSAT 172B

	Currently under contract		
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			
C08			
C09			
C10			
C11			
C12			
C13			
C14			
Total			

As noted above, the EUTELSAT 172B satellite was launched on June 1, 2017. Therefore, no data exists for the satellite regarding 2016. As a substitute, information for this satellite covering December 1, 2017 is provided below.

	Under contract (Dec 01, 2017)		
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			
C08			
C09			
C10			
C11			
C12			
C13			
C14			
Total			

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EUTELSAT 117 WA

Currently under contract (21/05/19)			
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			
C08			
C09			
C10			
C11			
C12			
C13			
C14			
C15			
C16			
C17			
C18			
C19			
C20			
C21			
C22			
C23			
C24			
Total			

Under contract (March 01, 2016)			
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			

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C08	
C09	
C10	
C11	
C12	
C13	
C14	
C15	
C16	
C17	
C18	
C19	
C20	
C21	
C22	
C23	
C24	
Total	

EUTELSAT 115 WB

	Currently under contract (21/05/19)		
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			
C08			
C09			
C10			
C11			
C12			
Total			

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	Under contract (March 01, 2016)		
	All (MHz)	US (%)	Non-US (%)
C01			
C02			
C03			
C04			
C05			
C06			
C07			
C08			
C09			
C10			
C11			
C12			
Total			

EUTELSAT 113 WA

	Currently under contract (21/05/19)		
	All (MHz)	US (%)	Non-US (%)
C01_N			
C02_N			
C03_N			
C04_N			
C05_N			
C06_N			
C07_N			
C08_N			
C09_N			
C10_N			
C11_N			
C12_N			
C13			
C14			
C15			
C16			
C17			
C18			
C19			
C20			

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C21	
C22	
C23	
C24	
Total	

	Under contract (March 01, 2016)		
	All (MHz)	US (%)	Non-US (%)
C01_N			
C02_N			
C03_N			
C04_N			
C05_N			
C06_N			
C07_N			
C08_N			
C09_N			
C10_N			
C11_N			
C12_N			
C13			
C14			
C15			
C16			
C17			
C18			
C19			
C20			
C21			
C22			
C23			
C24			
Total			

- *For each day in March 2019, the average percentage of each transponder's capacity (megahertz) utilized and the maximum percentage of capacity utilized on that day. Parties may supplement this required daily data for March 2019 with historical trend data over recent months up to three years (provide the date range at which the data was collected) to show utilization variances.*

[Information redacted]

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EUTELSAT 174A (previously EUTELSAT 172A)

[Information redacted]

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EUTELSAT 172B

REDACTED VERSION – HIGHLY CONFIDENTIAL

[illegible]

[illegible]

EUTELSAT 115 WB

[illegible]

	All customers (%)																							
	C01_N	C02_N	C03_N	C04_N	C05_N	C06_N	C07_N	C08_N	C09_N	C10_N	C11_N	C12_N	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24
3/1/2019																								
3/2/2019																								
3/3/2019																								
3/4/2019																								
3/5/2019																								
3/6/2019																								
3/7/2019																								
3/8/2019																								
3/9/2019																								
3/10/2019																								
3/11/2019																								
3/12/2019																								
3/13/2019																								
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3/27/2019																								
3/28/2019																								
3/29/2019																								
3/30/2019																								
3/31/2019																								

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- *For all data reported regarding capacity under contract and capacity utilization, specify the percentage (if any) only for customers outside of the United States.*

[Information redacted]

EUTELSAT 174A (previously EUTELSAT 172A)

[Information redacted]

[Remainder of page intentionally left blank]

	Non-US (MHz)													
	C01	C02	C03	C04	C05	C06	C07	C08	C09	C10	C11	C12	C13	C14
3/1/2019														
3/2/2019														
3/3/2019														
3/4/2019														
3/5/2019														
3/6/2019														
3/7/2019														
3/8/2019														
3/9/2019														
3/10/2019														
3/11/2019														
3/12/2019														
3/13/2019														
3/14/2019														
3/15/2019														
3/16/2019														
3/17/2019														
3/18/2019														
3/19/2019														
3/20/2019														
3/21/2019														
3/22/2019														
3/23/2019														
3/24/2019														
3/25/2019														
3/26/2019														
3/27/2019														
3/28/2019														
3/29/2019														
3/30/3019														
3/31/2019														

EUTELSAT 117 WA

[illegible]

EUTELSAT 115 West B

[illegible]

[illegible]

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- *The center frequency and bandwidth of the Telemetry Tracking and Command (TT&C) beam(s).*

EUTELSAT 174A

TT&C Signal	Center Frequency	Bandwidth
Command 1	5926.5 MHz	400 KHz
Telemetry 1	3703.0 MHz	400 KHz
Telemetry 2	4199.5 MHz	400 KHz
Beacon 1	12749.5 MHz	400 KHz
Beacon 2	11199.0 MHz	400 KHz

EUTELSAT 172B

TT&C Signal	Center Frequency	Bandwidth
Command 1	13750.6 MHz	400 KHz
Command 2	13999.5 MHz	400 KHz
Telemetry 1	11200.6 MHz	400 KHz
Telemetry 2	12250.1 MHz	400 KHz
Beacon 1	19202.0 MHz	400 KHz
Beacon 2	12250.1 MHz	400 KHz
Beacon 3	11200.6 MHz	400 KHz
Beacon 4	4199.9 MHz	400 KHz
Beacon 5	4198.9 MHz	400 KHz

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EUTELSAT 117 WA

TT&C Signal	Center Frequency	Bandwidth
Command 1	5926.5 MHz	1000 KHz
Command 2	6424.5 MHz	1000 KHz
Telemetry 1	4198.6 MHz	300 KHz
Telemetry 2	4199.4 MHz	300 KHz
Beacon 1	11700.5 MHz	25 KHz
Beacon 2	12199.3 MHz	25 KHz

EUTELSAT 115 WA

TT&C Signal	Center Frequency	Bandwidth
Command 1	6423.5 MHz	500 KHz
Command 2	6421.5 MHz	500 KHz
Telemetry 1	4199.0 MHz	100 KHz
Telemetry 2	4199.8 MHz	100 KHz
Beacon 1	12199.9 MHz	3 KHz

EUTELSAT 113 WA

TT&C Signal	Center Frequency	Bandwidth
Command 1	5926 MHz	1000 KHz
Telemetry 1	4198.875 MHz	300 KHz
Telemetry 2	4199.5 MHz	300 KHz
Beacon 1	11701.5 MHz	25 KHz
Beacon 2	12199 MHz	25 KHz

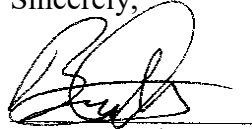
- *The call sign and geographic location (using NAD83 coordinates) of each TT&C receive site.*

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Eutelsat and its affiliates do not operate any TT&C transmit or receive sites in the United States.

Please let me know if you have any questions about this information.

Sincerely,

A handwritten signature in black ink, appearing to be "B. Olcott", written over a horizontal line.

Bruce A. Olcott

Counsel to Eutelsat S.A.