

From: [George Varkey](#)
To: [Jae Lim](#)
Subject: RE: SES-MOD-20181008-03661; Call Sign: E070182
Date: Thursday, January 16, 2020 2:21:52 PM

Hi Jae,

Thank you for sharing the anomalies in the license modification application. I need some help from you in order to make corrections in the application.

See below my responses:

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, January 15, 2020 10:58 AM
To: George Varkey <George.Varkey@ses.com>
Subject: SES-MOD-20181008-03661; Call Sign: E070182

Hi George Varkey,

1. Please provide Frequency Coordination Exhibit for your MOD.
Does it require a new coordination report as far as the EIRP density of new carrier designations are same or lower?
2. You are using the Permitted List and please confirm you are only using the US licensed Satellites
Yes, the satellites given in the permitted list only be used to provide service out of the station.
3. Please consider revising Tx EIRP, Input Power, Output EIRP, and/or Antenna Gain. Either Tx EIRP is too high, Input power is too low, Output EIRP is too low, and/or Antenna Gain is too high. Please check and verify all numbers.
It has been noticed that the Tx antenna gain provided in the license application was not correct which is 55.13 dB instead of 54 dB given in the application. We would prefer to maintain the EIRP density of the carriers same as that of the original license and correct the EIRP of new carriers reflecting the changes in the antenna gain.
In summary:
Power at the antenna flange remain the same (100W)
EIRP & EIRP density of the carriers will be same or lower with reference to the original license
The EIRP of the newly added carriers will be modified reflecting the antenna gain and power at flange .

4. You answered "NA" for foreign control and I will check "NO" for foreign control.
Yes, this shall be corrected in the application

I would appreciate your recommendations in order to accomplish the mentioned correction.

File No.	SES-MDD-20181008-03661	Call Sign	E07018Z	Filing State	Pending	Status	APP	Status Date	Feb 6 2019 6:1				
Applicant	SES Americom, Inc.			File Date	Oct 8 2018 4	Last Action		Action Date					
Class of Station	Fixed Earth Stations	Type of Facility	Transmit/Receive	Nature of Service	FSS = Fixed Satellite Service	No. Sites: 1							
<input checked="" type="checkbox"/> US Licensed Satellites <input checked="" type="checkbox"/> Non-US Licensed Satellites		Certification	Foreign Control Requires Freq. Coord. Exhibit for WBES-NSS7		Routed To: Jae_Lim								
WBES-NSS7													
City	Mount Airy	County	Carroll	State	MD	Lat.	392238.9N	Lon.	0770448.5W				
								Grnd (m amsl)	192.6				
									NAD83				
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)	PtComms: PERMITTED LIST @						
1	WBES-NSS7	11	100	74.9	54.0 @ 6.175	50.7 @ 4							
Cd 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 (E/ast)	Calc Elev (W/est)	Calc Azim (E/ast)	Calc Azim (W/est)	Antenna ID
1	5925	6425	22W	120W	18	26.7	113.9	235.7	18.0	26.7	113.9	235.7	WBES-NSS7
2	3700	4200	22W	120W	18	26.7	113.9	235.7	18.0	26.7	113.9	235.7	WBES-NSS7
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	5925	6425	27M2G7W	74.90	36.60	T	27.2 MHz	Digital	20.90	123.03	-17.40	WBES-NSS7	
2	3700	4200	27M2G7W			R	27.2 MHz	Digital				WBES-NSS7	
3	5925	6425	27M2G7W	74.90	36.60	T	27.2 MHz	Digital	20.90	123.03	-17.40	WBES-NSS7	
4	5925	6425	1M00F8W	60.58	36.60	T	1.00 MHz	Analog	6.58	4.55	-17.40	WBES-NSS7	
5	5925	6425	36M0G7W	76.14	36.60	T	36.0 MHz	Digital	22.14	163.68	-17.40	WBES-NSS7	
6	5925	6425	100KG7W	50.50	36.60	T	100. kHz	Digital	-3.50	.45	-17.40	WBES-NSS7	
7	3700	4200	27M2G7W			R	27.2 MHz	Digital				WBES-NSS7	
8	3700	4200	100KG7W			R	100. kHz	Digital				WBES-NSS7	

Thanks.

Jae Lim
 FCC/IB
 1-202-418-2899