

Jae Lim

From: Merrick, Patrick H <patrick.merrick@verizon.com>
Sent: Thursday, February 4, 2021 5:18 PM
To: Jae Lim
Subject: Re: [E] SES-LIC-20210113-00047; Call Sign: E210006

Jae,

Our engineer is fine with that result.

Pat

On Thu, Feb 4, 2021 at 4:35 PM Jae Lim <Jae.Lim@fcc.gov> wrote:

Hi Patrick,

Thanks for this information.

I calculated the Antenna Gain, 55.26 [dBi@28.6](#) GHz.

Please confirm for me with the engineer this calculated antenna gain and let me know.

Thanks.

Jae Lim

FCC/IB

From: Merrick, Patrick H <patrick.merrick@verizon.com>
Sent: Wednesday, February 3, 2021 12:34 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Subject: Re: [E] SES-LIC-20210113-00047; Call Sign: E210006

Hi Jae. I'm going to apologize in advance for my ignorance as I while my name is associated with all non-wireless Verizon FRNs, I am only the regulatory attorney. I asked the business engineers and they provided the following response. If this is not what you are looking for, let me know and I will circle back with our engineers and ask again.

ANTENNA

Site ID	E28. Antenna ID	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/E42. Antenna Gain Transmit and/or Receive (dBi at GHz)
Willow Rock	MEO1	1	AVL	2470	2.4	54.5 dBi @ 28.36 GHz
Willow Rock	MEO1	1	AVL	2470	2.4	51.0 dBi @ 18.58 GHz

E28. Antenna ID	E33/E34. Diameter	E35. Above Ground Level	E36. Above Sea Level	E37. Building Height Above	E38. Total Input Power at	E39. Maximum Height Above	E40. Total EIRP for all
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On Tue, Feb 2, 2021 at 3:01 PM Jae Lim <Jae.Lim@fcc.gov> wrote:

Hi Patrick Merrick,

I hope all is well.

Please provide the Antenna Gains for 18800-19300 MHz and 28600-29100 MHz.

Thanks.

Jae Lim

FCC/IB

File No. SES-LIC-20210113-00047 Call Sign: E210006 Filing State: Pending Status: AFP Status Date: Jan 13 2021
 Applicant: MCI Communications Services, LLC File Date: Jan 13 2021 Last Action: Action Date:
 Class of Station: Fixed Earth Stations Type of Facility: Transmit/Receive Nature of Service: FSS = Fixed Satellite Service
 US Licensed Satellites
 Non-US Licensed Satellites Certifications: US/Non-US Lic. Sats NOT indicated Requires Freq. Coord. Exhibit for WR Earth Station Routed To: Jae_Lim
 WR Earth Station

City:	Window Rock	County:	Apache	State:	AZ	Lat:	354029.6N	Lon:	1090326.6W	Gnd (m amsl):	2082
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)					
1	1-2	2.4	40	70	51.0 @ 18.5	54.5 @ 28.3					

Crd 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
3	27600	28400	0	0	10	10	121.1	238.8	-23.4	-23.4	258.6	258.6	1-2
4	28600	29100	0	0	10	10	121.1	238.8	-23.4	-23.4	258.6	258.6	1-2

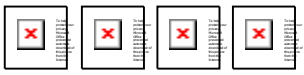
Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Eirp Density (dBW/4kHz)	T/R	Bandwidth	Modulation	Pt (dBW)	Pt (W)	P.D. (dBW/4kHz)	Antenna ID
1	17800	18600	1M00G7D	.00	0.00	R	1.00 MHz	Digital				1-2
2	17800	18600	216MG7D	.00	0.00	R	216. MHz	Digital				1-2
3	18800	19300	1M00G7D	.00	0.00	R	1.00 MHz	Digital				1-2
4	18800	19300	216MG7D	.00	0.00	R	216. MHz	Digital				1-2
5	27600	28400	1M00G7D	70.00	32.00	T	1.00 MHz	Digital	15.50	35.48	-22.50	1-2
6	27600	28400	216MG7D	70.00	23.20	T	216. MHz	Digital	15.50	35.48	-31.30	1-2
7	28600	29100	1M00G7D	70.00	32.00	T	1.00 MHz	Digital	No Gain Found			1-2
8	28600	29100	216MG7D	70.00	23.20	T	216. MHz	Digital	No Gain Found			1-2



Patrick Merrick

Counsel
 Verizon Consumer Group

M 703 447 0209
 22001 Loudoun County Pkwy
 Ashburn, VA 20147



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Patrick Merrick

Counsel
Verizon Consumer Group

M 703 447 0209
22001 Loudoun County Pkwy
Ashburn, VA 20147

