

From: [Brian Jamison](#)
To: [Jae Lim](#)
Subject: RE: SES-MOD-20181010-03903; Call Sign: E890979
Date: Tuesday, July 14, 2020 1:40:05 PM
Attachments: [image001.png](#)

Hello

Yes your calculations are good and I just checked our 5 degrees is good that calculation and the 35.2 dBW/4kHz. Thank you for your help.

Brian Jamison

SCETV Engineering Maintenance Manager

South Carolina ETV and Public Radio
1041 George Rogers Boulevard | Columbia, S.C. | 29201
M 803.440.2045 | www.scetv.org

If all else fails, communication doesn't.

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, July 14, 2020 1:29 PM
To: Brian Jamison <bcjamison@scetv.org>
Subject: RE: SES-MOD-20181010-03903; Call Sign: E890979

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Hi Brian,

Per our discussion, this is my calculation.

$73 \text{ dBW} - 49.2 \text{ dBW (antenna gain)} = 23.8 \text{ dBW}$

$23.8 \text{ dBW} - 10 \log(18\text{M}) + 10 \log(4\text{k}) = -12.75 \text{ dBW/4kHz}$

FCC CFR 25.212 states "An earth station may be routinely licensed for digital transmission, including digital video transmission, in the conventional Ku-band, or, except for an ESIM, in the extended Ku-band, if input power spectral density into the antenna will not exceed -14 dBW/4 kHz and the application includes certification pursuant to §25.132(a)(1) of conformance with the antenna gain performance requirements in §25.209(a)"

$14 - 12.75 = 1.25 \text{ dBW/4kHz}$.

So EIRP density should be reduced by 1.25 dBW/4kHz.

$73 \text{ dBW} - 10 \log(18\text{M}) + 10 \log(4\text{k}) = 36.45 \text{ dBW/4kHz EIRP density}$.

$36.45 \text{ dBW/4kHz} - 1.25 \text{ dBW/4kHz} = 35.2 \text{ dBW/4kHz}$.

EIRP density should be 35.2 dBW/4kHz or lower.

Elevation should also be 3 degrees or greater.

We do however prefer 5 degrees.

Please let us know if you agree with 5 degree elev and 35.2 dBW/4kHz.

Thanks.

Jae Lim

FCC/IB

From: Barry Persh <bpersh@graymillerpersh.com>
Sent: Tuesday, June 23, 2020 12:51 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Subject: RE: SES-MOD-20181010-03903; Call Sign: E890979

Thanks – we are checking with the applicant and their engineer on these questions.

Barry S. Persh | Gray Miller Persh LLP

2233 Wisconsin Avenue NW, Suite 226

Washington, DC 20007

(202) 776-2458

bpersh@graymillerpersh.com

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From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Monday, June 22, 2020 2:32 PM
To: Barry Persh <bpersh@graymillerpersh.com>
Subject: SES-MOD-20181010-03903; Call Sign: E890979

Hi Barry Persh,

I hope all is well with you and your family.

Per 25.205, antenna must not transmit below antenna elevation angle 3 degrees. **Please verify elevation.**

PowDen (23.8 dBW) on 14000-14500 18M0G7W exceeds Max Digital PowDen of -14 for Routine Processing. To meet Routine Processing level, this Power Density must be reduced by 37.8 dB. **Please verify your EIRP and EIRP Density values.**

Thanks.

File No.	SES-MOD-20181010-03903	Call Sign	E890979	Filing State	Pending	Status	AFP	Status Date	Apr 19 2019 3:	No. Sites	
Applicant	South Carolina Educational Television Commission			File Date	Oct 10 2018 1	Last Action		Action Date			
Class of Station	Temporary Fixed Earth Station	Type of Facility	Transmit Only	Nature of Service	FSS = Fixed Satellite Service						1
<input checked="" type="checkbox"/> US Licensed Satellites											
<input type="checkbox"/> Non-US Licensed Satellites											
Certifications	OK										
Routed To	Jae_Lim										

City	COLUMBIA	County	RICHLAND	State	SC	Lat	000000.0	Lon	0000000.0	Grnd (m amsl)	0	NAD27
Ant Row	Antenna ID	Diameter (m)	Max Input Power (w)	Max Output Eirp	Gain (dBi@GHz)							
1	1	2.4	400	73.07	49.2 @ 14							

PtComms	PERMITTED LIST @										
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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
1	14000	14500											1

Freq Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Eirp Density (dBW/4k-Hz)	T/R	Bandwidth	Modulation	Pt (dBW)	Pt (W)	P.D. (dBW/4k-Hz)	Antenna ID
1	14000	14500	18M0G7W	73.00	73.00	T	18.0 MHz	Digital	23.80	239.88	23.80	1

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

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