<u>Jae Lim</u> RE: SES-MOD-20181010-03903; Call Sign: E890979 Subject:

Tuesday, July 14, 2020 1:40:05 PM image001.png Attach

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 dBW-49.2 dBW (antenna gain)=23.8 dBW 23.8 dBW-10log(18M)+10log(4k)= -12.75 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 dBW/4kHz.

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

73 dBW-10log(18M)+10log(4k)=36.45 dBW/4kHz EIRP density. 36.45 dBW/4kHz -1.25 dBW/4kHz = 35.2 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

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bpersh@graymillerpersh.com

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From: Jae Lim < Jae.Lim@fcc.gov> Sent: Monday, June 22, 2020 2:32 PM

Subject: SES-MOD-20181010-03903; Call Sign: E890979

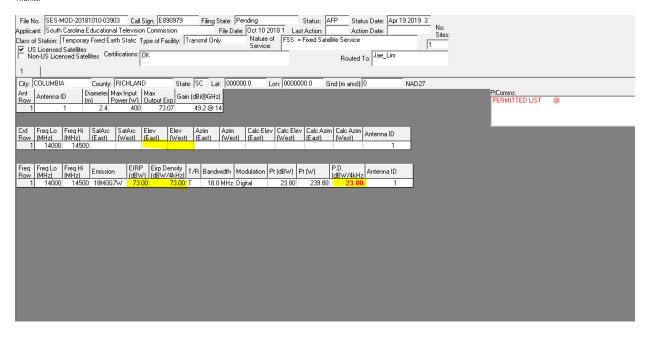
Hi Barry Persh,

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.



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

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