

From: [Andy Rzeszut](#)
To: [Jae Lim](#)
Cc: [Cindy \(Lynch\) Hall](#); [Tariffs and Licenses](#)
Subject: RE: SES-MOD-20181030-03736
Date: Tuesday, August 6, 2019 4:53:31 PM
Attachments: [ma3a011.png](#)
[ma3a002.png](#)
[Exhibit A Frequency Coordination Final Report Atkasuk.pdf](#)

Jae Lim:

Hello again!

I can't offer an explanation at this time as to how the EIRP Density for the 45 kHz Emission Designator (45K0G7W/45K0D7W) was changed/increased to 43.24 dBW/4kHz. My computations were that the EIRP Density for this Emission Designator should have been filed/entered as 42.4 dBW/4kHz, as shown below:

| Required EIRP Calculation after Reduction (afr) | | | |
|---|---------------------------|-----------------------------------|----------|
| Antenna Manufacturer: | Viasat/Scientific-Atlanta | | |
| Antenna Model: | 8136 | | |
| Antenna Transmit Gain: | 45.9 dBi | | |
| FCC NRESA Maximum Power Density Into Antenna: | -2.7 dBW/4kHz | | |
| Transmitter Power: | 400 Watts | | |
| | Minimum / Narrowband | Maximum / Wideband | |
| Carrier BW: | 45 | 108000 kHz | |
| FCC EIRP Density (max): | 43.20 | 27.61 | dBW/4kHz |
| | 67.18 | 51.59 | dBW/MHz |
| FCC EIRP Per Carrier (max): | 53.71 | 71.92 dBW | |
| FCC Maximum EIRP Density Toward Horizon: | 8.83 | dBW/4kHz | |
| | | = relevant for FCC 312 Form entry | |

Additionally, this value of 43.2 dBW/4kHz is reflected in the Exhibit A Frequency Coordination Report that was filed with this application/modification (and included as an attachment to this e-mail message).

If it is acceptable with the FCC, please change the EIRP Density value for the 45K0G7W and 45K0D7W Emission Designators from 43.24 dBW/4kHz => 43.2 dBW/4kHz.

As before, thanks in advance for your assistance!

Have a wonderful day!

Sincerely,

Andy Rzeszut
Senior Staff Engineer
GCI
Network Services Architecture and Planning
2550 Denali Street, Suite 1000
Anchorage, Alaska 99503

Office: 907-868-5536
Mobile: 907-230-0975

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Tuesday, August 6, 2019 10:25 AM
To: Cindy (Lynch) Hall <chall2@gci.com>; [Tariffs and Licenses <TariffsandLicenses@gci.com>](mailto:TariffsandLicenses@gci.com)
Cc: Andy Rzeszut <arzeszut@gci.com>
Subject: RE: SES-MOD-20181030-03736

[EXTERNAL EMAIL - CAUTION: Do not open unexpected attachments or links.]

Cindy and Andy,
I will be away for awhile and I would appreciate if you can get back to me today. I would like to put this on PN before I leave.
Thanks.

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

From: Cindy (Lynch) Hall <chall2@gci.com>
Sent: Tuesday, August 6, 2019 1:36 PM
To: Jae Lim <Jae.Lim@fcc.gov>; [Tariffs and Licenses <TariffsandLicenses@gci.com>](mailto:TariffsandLicenses@gci.com)
Cc: Andy Rzeszut <arzeszut@gci.com>
Subject: RE: SES-MOD-20181030-03736

Andy,
Can you please confirm #1 below? This is for the modification we filed on 10/31/2018 for Atkasuk – E960398

Jae,
I confirm #2 below

Cindy (Lynch) Hall
GCI | Mgr, Rate, Tariffs & Licenses
2550 Denali Street, Suite 1000 | Anchorage, AK 99503
☎ 907.868.5615 | 📠 907-868-9817 | ✉ CHall2@gci.com



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From: Jae Lim <Jae.Lim@fcc.gov>

Sent: Monday, August 05, 2019 12:05 PM

To: Tariffs and Licenses <TariffsandLicenses@grc.com>

Subject: SES-MOD-20181030-03736

Importance: High

[EXTERNAL EMAIL - CAUTION: Do not open unexpected attachments or links.]

Hi Cynthia Hall,

Please confirm asap the following information.

1. Please confirm 43.2 EIRP Density/4KHz (from 43.24 dBW/4kHz) [to reduce the P.D. value to -2.70.
2. Please confirm your antenna coordinates @70-28-45.3 n 157-24-56.2w. **[Cindy (Lynch) Hall]** Yes, this is correct

| City | ATQASUK | County | N. SLOPE BOROUGH | State | AK | Lat | 702845.3N | Lon | 1572456.2W | Grid (m amsl) | 30.8 | NAD83 | PrComms |
|----------|---------------|---------------|---------------------|-----------------|-------------------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|------------------|
| Ant Row | Antenna ID | Diameter [m] | Max Input Power [W] | Max Output Eirp | Gain (dB@GHz) | Gain (dB@GHz) | | | | | | | PERMITTED LIST @ |
| 1 | 1 | 3.6 | 400 | 71.92 | 45.9 @ 6.175 | 41.8 @ 3.95 | | | | | | | |
| Crd Row | Freq Lo [MHz] | Freq Hi [MHz] | SatArc [E/West] | SatArc [E/West] | Elev [E/West] | Elev [E/West] | Azim [E/West] | Azim [E/West] | Calc Elev [E/West] | Calc Elev [E/West] | Calc Azim [E/West] | Calc Azim [E/West] | Antenna ID |
| 1 | 3700 | 4200 | 113w | 202w | 5.1 | 5.1 | 133.9 | 226.3 | 5.1 | 5.1 | 133.9 | 226.3 | 1 |
| 2 | 5925 | 6425 | 113w | 202w | 5.1 | 5.1 | 133.9 | 226.3 | 5.1 | 5.1 | 133.9 | 226.3 | 1 |
| Freq Row | Freq Lo [MHz] | Freq Hi [MHz] | Emission | EIRP [dBW] | Eirp Density [dBW/4kHz] | T/R | Bandwidth | Modulation | Pr [dBW] | Pt [W] | P.D. [dBW/4kHz] | Antenna ID | |
| 1 | 5925 | 6425 | 45K0G7w | 53.71 | 43.24 | T | 45.0 kHz | Digital | 7.81 | 6.04 | -2.66 | 1 | |
| 2 | 5925 | 6425 | 108M67w | 71.92 | 27.61 | T | 108. MHz | Digital | 26.02 | 399.94 | -18.29 | 1 | |
| 3 | 5925 | 6425 | 45K0D7w | 53.71 | 43.24 | T | 45.0 kHz | Digital | 7.81 | 6.04 | -2.66 | 1 | |
| 4 | 5925 | 6425 | 108MD7w | 71.92 | 27.61 | T | 108. MHz | Digital | 26.02 | 399.94 | -18.29 | 1 | |
| 5 | 3700 | 4200 | 45K0G7w | | | R | 45.0 kHz | Digital | | | | 1 | |
| 6 | 3700 | 4200 | 108M67w | | | R | 108. MHz | Digital | | | | 1 | |
| 7 | 3700 | 4200 | 45K0D7w | | | R | 45.0 kHz | Digital | | | | 1 | |
| 8 | 3700 | 4200 | 108MD7w | | | R | 108. MHz | Digital | | | | 1 | |

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