

From: Andy Rzeszut
 To: Jae Lim
 Cc: Veronica Vania <BVVan@TelAlaska.com>; Bob Dunn
 Subject: RE: SES-MOD-20201218-01417; Call Sign: E080229
 Date: Monday, March 22, 2021 4:36:59 PM
 Attachments: image001.png
 image002.png
 image003.png

Jae Lim:

Thanks for the note.

Yes, the CalcAzim (East) for both the 5925-6425 MHz and 3700-4200 MHz frequency ranges should be 124.8°W. Additionally, the SatArc (East) for both frequency ranges should be 113°W (not 107°W) and the CalcElev (East) for both frequency ranges should be 6.6°.

With the above values for SatArc (East), Elev (East)/CalcElev (East), and Azim (East)/CalcAzim (East) agree with the information included in the Frequency Coordination Report for the Nome earth station.

See the annotated screenshot below (based upon your screenshot).

The screenshot shows the IBFS application form for a station in Nome, Alaska. The form includes fields for File No., Applicant, Class of Station, and various technical parameters. A table at the bottom lists frequency coordination data. Red boxes and arrows highlight specific errors in the table:

- Should be 113°W:** Points to the SatArc (East) column for rows 1 and 2.
- Should be 6.6°:** Points to the CalcElev (East) column for rows 1 and 2.
- Should be 124.8°W:** Points to the CalcAzim (East) column for rows 1 and 2.

Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Power (W)	Gain (dBi@GHz)	Gain (dBi@GHz)	Lat (N)	Lon (W)	Gnd (m)	Alt (m)	City	County	State	Country
1	7	3.8	400	720	46.2 @ 6.175	42.0 @ 3.925	61.1	165.218	5.1	134.7	NOME	Nome	AK	USA

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	5925	6425	113W	123W	6.6	10	113.1	134.68	6.6	10.0	124.8	134.7	7
2	3700	4200	107W	123W	4.4	10	119.1	134.68	4.4	10.0	119.1	134.7	7

Row	Freq Lo (MHz)	Freq Hi (MHz)	Emission	EIRP (dBW)	Exp Density (dBW/4kHz)	T/R	Bandwidth	Modulation	P (dBW)	P (dBW)	P (dBW)	Antenna ID
1	3700	4200	100G7W	00	0.00	R	100 kHz	Digital				7
2	3700	4200	36M0G7W	00	0.00	R	36.0 MHz	Digital				7
3	3700	4200	100K07W			R	100 kHz	Digital				7
4	3700	4200	36M0D7W			R	36.0 MHz	Digital				7
5	5925	6425	100G07W	57.48	43.50	T	100 kHz	Digital	11.28	13.43	-2.70	7
6	5925	6425	36M0G7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7
7	5925	6425	100K07W	57.48	43.50	T	100 kHz	Digital	11.28	13.43	-2.70	7
8	5925	6425	36M0D7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7

Again, my sincere apologies for the typographical error(s) that I made when entering information into IBFS for the Nome location.

Thanks again for your assistance!

Sincerely,

Andy Rzeszut
 Senior Telecom Engineer
 TelAlaska
 201 E. 56th Ave.
 Anchorage, Alaska 99518

(o): 907-550-1665
 (m): 907-230-0975
 (e): arzeszut@telalaska.com

From: Jae Lim <Jae.Lim@fcc.gov>
 Sent: Monday, March 22, 2021 12:09 PM
 To: Andy Rzeszut <ARzeszut@TelAlaska.com>
 Cc: Veronica Vania <VVania@TelAlaska.com>; Bob Dunn <BDunn@TelAlaska.com>
 Subject: RE: SES-MOD-20201218-01417; Call Sign: E080229

[External Email] If this message contains an attachment or web links, please exercise caution before opening. If you have any questions please contact TelAlaska IT.
 Hi Andy,

I have one more thing to ask and your application should be good for PN.

Azim on 5925-6425 will be changed to 124.8.

Please confirm this for me.

Thanks.

Jae Lim
FCC/IB

File No.:	SES-MOD-20201218-01417	Call Sign:	E080229	Filing State:	Pending	Status:	AFP	Status Date:	Dec 18 2020 4	No. Sites:		
Applicant:	TelAlaska Cellular, Inc.		File Date:	Jan 18 2020 1	Last Action:		Action Date:					
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	FSS = Fixed Satellite Service						10	
<input checked="" type="checkbox"/> US Licensed Satellites	Certifications:		OK	Requires Freq Coord Exhibit for 1						Routed To:	Jae_Lim	
<input type="checkbox"/> Non-US Licensed Satellites												
1	2	3	4	5	6	7	8	9	10			
City:	NOME	County:		State:	AK	Lat:	642941.5N	Lon:	1652318.1W	Grnd (m amsl):	6.1	NAD83
Ant Row:	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dBi@GHz)	Gain (dBi@GHz)						PtComms:
1	7	3.8	400	72.2	46.2 @ 6.175	42.0 @ 3.9125						PERMITTED LIST @

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	5925	6425	113W	123W	6.6	10	119.1	134.68	6.6	10.0	124.8	134.7	7
2	3700	4200	107W	123W	4.4	10	119.1	134.68	4.4	10.0	119.1	134.7	7

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	3700	4200	100KG7W	.00	0.00	R	100. kHz	Digital				7
2	3700	4200	36M0G7W	.00	0.00	R	36.0 MHz	Digital				7
3	3700	4200	100KD7W			R	100. kHz	Digital				7
4	3700	4200	36M0D7W			R	36.0 MHz	Digital				7
5	5925	6425	100KG7W	57.48	43.50	T	100. kHz	Digital	11.28	13.43	-2.70	7
6	5925	6425	36M0G7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7
7	5925	6425	100KD7W	57.48	43.50	T	100. kHz	Digital	11.28	13.43	-2.70	7
8	5925	6425	36M0D7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7

From: Andy Rzeszut <ARzeszut@TelAlaska.com>
Sent: Monday, March 22, 2021 12:09 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Cc: Veronica Vania <VVania@TelAlaska.com>; Bob Dunn <BDunn@TelAlaska.com>
Subject: RE: SES-MOD-20201218-01417; Call Sign:E080229

Jae Lim:

Good afternoon!

I just thought I'd reach-out to you to see if you have any further questions or comments about our application or about my responses to your earlier questions.

Thank you.

Sincerely,

Andy Rzeszut
Senior Telecom Engineer
TelAlaska
201 E. 56th Ave.
Anchorage, Alaska 99518

(o): 907-550-1665
(m): 907-230-0975
(e): arzeszut@telalaska.com

From: Jae Lim <Jae.Lim@fcc.gov>
Sent: Monday, March 8, 2021 11:00 AM
To: Andy Rzeszut <ARzeszut@TelAlaska.com>
Cc: Veronica Vania <VVania@TelAlaska.com>; Bob Dunn <BDunn@TelAlaska.com>
Subject: RE: SES-MOD-20201218-01417; Call Sign:E080229

[External Email] If this message contains an attachment or web links, please exercise caution before opening. If you have any questions please contact TelAlaska IT.
Hi Andy,

I received your reply.

Please allow me some time to review your application.

Thanks.

Jae Lim
FCC/IB

From: Andy Rzeszut <ARzeszut@TelAlaska.com>
Sent: Monday, March 8, 2021 1:54 PM
To: Jae Lim <Jae.Lim@fcc.gov>
Cc: Veronica Vania <VVania@TelAlaska.com>; Bob Dunn <BDunn@TelAlaska.com>
Subject: RE: SES-MOD-20201218-01417; Call Sign:E080229

Jae Lim:

Good afternoon!

My name is Andy Rzeszut and I'm an engineer with TelAlaska, Inc. here in Anchorage, Alaska. I'm the engineer that prepared the filing associated with the modifications to FCC call sign E080229.

In your note below, you raised three (3) concerns. I'd like to address each concern as follows:

1. Site 7 Antenna7 elevation on 5925-6425 MHz must be greater than 5 degrees
[afjr] Understood. This must have been a typographical error associated with the Nome 3.8m earth station antenna. It was my intent to input an easternmost satellite azimuth = 113°W (not 107°W). This value of 113°W matches that shown in the Frequency Coordination documents. According to my computations (and those of MicroNet, our frequency coordinator), the elevation angle of the antenna with an easternmost satellite azimuth of 113°W is be approximately 6.6°.

I attempted to make this change on the E080229 modification application a few moments ago, but didn't seem to be able to do so.

Can/will you assist with making this change to the easternmost satellite azimuth (i.e. change 107°W => 113°W)?

2. Site 10 Antenna 10 Power (794.33 W) on 5925-6425 36M0G7W exceeds Max of 450.00 W for ROUTINE PROCESSING. To meet ROUTINE PROCESSING level, this power should be reduced by 2.47 dB.

[afjr] It is my understanding that the 450W (i.e. 26.5dBW) power limitation associated with "routine processing" is placed upon applicants intending to license an antenna for analog video transmission [reference: §25.211(d)(2)].

This is not the case with TelAlaska, Inc. and the modifications submitted for E080229. Rather, we intend to license our earth station to operate in accordance with §25.212 which relates to digital transmissions. Specifically, §25.212(d) states that "an individual earth station may be routinely licensed for digital transmissions in the conventional C-band ... if the applicant certifies conformance with the relevant antenna performance standards in §25.209(a) and (b), and power density into the antenna will not exceed -2.7dBW/4kHz".

The EIRP density values entered for both the narrowest emission designator (100KG7W/100KD7W) and the widest emission designator (36M0G7W/36M0D7W) indeed correspond with an power density into the antenna of -2.7dBW/4kHz or less.

Can/will you confirm the above?

3. Site 10 Antenna 10 Power (794.33 W) on 5925-6425 36M0D7W exceeds Max of 450.00 W for ROUTINE PROCESSING. To meet ROUTINE PROCESSING level, this power should be reduced by 2.47 dB.

[afjr] Please see my response to Issue (2) above.

Please advise with your thoughts.

Thank you.

Sincerely,

Andy Rzeszut
Senior Telecom Engineer
TelAlaska
201 E. 56th Ave.
Anchorage, Alaska 99518

(o): 907-550-1665
(m): 907-230-0975
(e): arzeszut@telalaska.com

From: Veronica Vania <VVania@TelAlaska.com>
Sent: Friday, March 5, 2021 8:18 AM
To: Andy Rzeszut <ARzeszut@TelAlaska.com>; Bob Dunn <BDunn@TelAlaska.com>
Subject: Fwd: SES-MOD-20201218-01417; Call Sign:E080229

Andy, not sure if you have already been contacted on this. Looks like they are requesting some changes to our filing.

Begin forwarded message:

From: Jae Lim <Jae_Lim@fcc.gov>
 Date: March 5, 2021 at 6:45:47 AM AKST
 To: RegulatoryAffairs <RegulatoryAffairs@telaska.com>
 Subject: SES-MOD-20201218-01417; Call Sign: E080229

[External Email] If this message contains an attachment or web links, please exercise caution before opening. If you have any questions please contact TelAlaska IT.
 Hi Mr. Robert Dunn,

I hope all is well.

Please submit as a pleading the following correction:

1. Site 7 Antenna 7 elevation on 5925-6425 MHz must be greater than 5 degrees
2. Site 10 Antenna 10 Power (794.33 W) on 5925-6425 36M0G7W exceeds Max of 450.00 W for ROUTINE PROCESSING. To meet ROUTINE PROCESSING level, this power should be reduced by 2.47 dB.
3. Site 10 Antenna 10 Power (794.33 W) on 5925-6425 36M0D7W exceeds Max of 450.00 W for ROUTINE PROCESSING. To meet ROUTINE PROCESSING level, this power should be reduced by 2.47 dB.

Thanks.

Jae Lim
 FCC/IB

File No.	SES-MOD-20201218-01417	Call Sign:	E080229	Filing State:	Pending	Status:	APP	Status Date:	Dec 18 2020 4				
Applicant:	TelAlaska Cellular, Inc.		File Date:	Jan 18 2020 1	Last Action:		Action Date:		No. Sites:				
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	FSS = Fixed Satellite Service				10				
<input checked="" type="checkbox"/> US Licensed Satellites	Certifications:		OK	Requires Freq. Coord. Exhibit for 1					Routed To: Jae_Lim				
<input type="checkbox"/> Non-US Licensed Satellites													
1	2	3	4	5	6	7	8	9	10				
City:	NOME	County:		State:	AK	Lat:	642941.5N	Lon:	1652318.1W	Gnd (m amsl):	6.1	NAD83	
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dB@GHz)	Gain (dB@GHz)	PtComms: PERMIT						
1	7	3.8	400	72.2	46.2 @ 6.175	42.0 @ 3.9125							
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	5925	6425	107W	123W	4.4	10	119.1	134.68	4.4	10.0	119.1	134.7	7
2	3700	4200	107W	123W	4.4	10	119.1	134.68	4.4	10.0	119.1	134.7	7
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	3700	4200	100K7W	.00	0.00	R	100. kHz	Digital				7	
2	3700	4200	36M0G7W	.00	0.00	R	36.0 MHz	Digital				7	
3	3700	4200	100K07W			R	100. kHz	Digital				7	
4	3700	4200	36M0D7W			R	36.0 MHz	Digital				7	
5	5925	6425	100K07W	57.48	43.50	T	100. kHz	Digital	11.28	13.43	-2.70	7	
6	5925	6425	36M0G7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7	
7	5925	6425	100K07W	57.48	43.50	T	100. kHz	Digital	11.28	13.43	-2.70	7	
8	5925	6425	36M0D7W	72.20	32.68	T	36.0 MHz	Digital	26.00	398.11	-13.52	7	

File No.	SES-MOD-20201218-01417	Call Sign:	E080229	Filing State:	Pending	Status:	APP	Status Date:	Dec 18 2020 4				
Applicant:	TelAlaska Cellular, Inc.		File Date:	Jan 18 2020 1	Last Action:		Action Date:		No. Sites:				
Class of Station:	Fixed Earth Stations	Type of Facility:	Transmit/Receive	Nature of Service:	FSS = Fixed Satellite Service				10				
<input checked="" type="checkbox"/> US Licensed Satellites	Certifications:		OK	Requires Freq. Coord. Exhibit for 1					Routed To: Jae_Lim				
<input type="checkbox"/> Non-US Licensed Satellites													
1	2	3	4	5	6	7	8	9	10				
City:	UNALASKA	County:		State:	AK	Lat:	535205.3N	Lon:	1663117.7W	Gnd (m amsl):	7.3	NAD83	
Ant Row	Antenna ID	Diameter (m)	Max Input Power (W)	Max Output Eirp	Gain (dB@GHz)	Gain (dB@GHz)	PtComms: PERMITTED LIST @						
1	10	4.5	800	76.5	47.5 @ 6.175	43.9 @ 3.95							
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	5925	6425	107W	123W	8.82	17.01	115.42	130.38	8.8	17.0	115.4	130.4	10
2	3700	4200	107W	123W	8.82	17.01	115.42	130.38	8.8	17.0	115.4	130.4	10
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	3700	4200	100K7W	.00	0.00	R	100. kHz	Digital				10	
2	3700	4200	36M0G7W	.00	0.00	R	36.0 MHz	Digital				10	
3	3700	4200	36M0D7W			R	36.0 MHz	Digital				10	
4	3700	4200	100K07W			R	100. kHz	Digital				10	
5	5925	6425	100K07W	58.78	44.80	T	100. kHz	Digital	11.28	13.43	-2.70	10	
6	5925	6425	36M0G7W	76.50	36.99	T	36.0 MHz	Digital	29.00	794.33	-10.51	10	
7	5925	6425	100K07W	58.78	44.80	T	100. kHz	Digital	11.28	13.43	-2.70	10	
8	5925	6425	36M0D7W	76.50	36.99	T	36.0 MHz	Digital	29.00	794.33	-10.51	10	