

Technical Exhibit**Minor Modification of Licensed Facility Application**

This application complies with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. This application specifies a new site with changes to the technical parameters are indicated below:

	Licensed	Mod of Licensed Facility
Channel / Class	212C2	212A
Geographical Coordinates NAD 83	36 50 48.90 113 29 30.80	37 03 49.0 113 34 21.0
ASRN	1032820	N/A
Site elevation	1890.7 meters	951.0 meters
Tower AGL	110.9 meters	30.5 meters
Antenna COR AGL	30.5 meters	24.4 meters
Antenna COR AMSL	1920.5 meters	975.4 meters
HAAT	555 meters	62.7 meters
ERP	2.0 kW (H&V, non-DA)	2.0 kW (H&V, non-DA)

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**Tabulation of HAAT / ERP / distance to 60 dBu contour**

CH 212A 37 03 49.0 / 113 34 21.0 2.0 kW ERP (H&V, non-da) 975.4 m COR AMSL 62.7 m HAAT

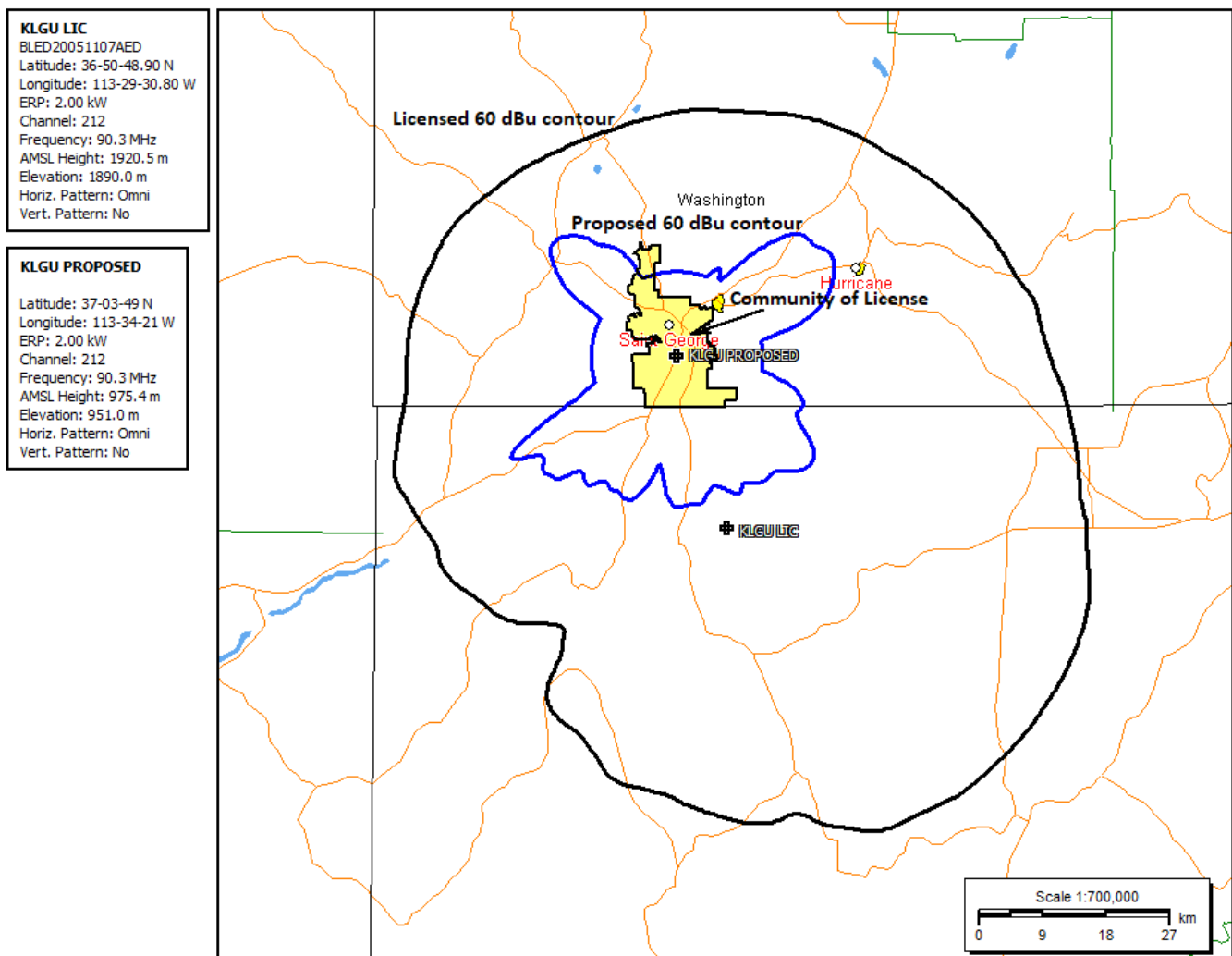
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	1040.8	-65.4	2.0000	3.01	1.000	12.00
010	1048.3	-72.9	2.0000	3.01	1.000	12.00
020	949.8	25.6	2.0000	3.01	1.000	12.00
030	941.9	33.5	2.0000	3.01	1.000	12.57
040	881.7	93.7	2.0000	3.01	1.000	21.35
045	850.9	124.5	2.0000	3.01	1.000	24.36
050	845.6	129.8	2.0000	3.01	1.000	24.78
060	838.1	137.3	2.0000	3.01	1.000	25.38
070	879.1	96.3	2.0000	3.01	1.000	21.65
080	957.0	18.4	2.0000	3.01	1.000	12.00
090	980.1	-4.7	2.0000	3.01	1.000	12.00
100	939.8	35.6	2.0000	3.01	1.000	12.93
110	902.2	73.2	2.0000	3.01	1.000	18.82
120	887.7	87.7	2.0000	3.01	1.000	20.64
130	857.6	117.8	2.0000	3.01	1.000	23.82
135	870.6	104.8	2.0000	3.01	1.000	22.57
140	884.7	90.7	2.0000	3.01	1.000	21.00
150	891.3	84.1	2.0000	3.01	1.000	20.21
160	897.2	78.2	2.0000	3.01	1.000	19.46
170	887.4	88.0	2.0000	3.01	1.000	20.68
180	885.5	89.9	2.0000	3.01	1.000	20.91
190	924.0	51.4	2.0000	3.01	1.000	15.63
200	884.0	91.4	2.0000	3.01	1.000	21.08
210	892.9	82.5	2.0000	3.01	1.000	20.01
220	886.7	88.7	2.0000	3.01	1.000	20.77
225	855.5	119.9	2.0000	3.01	1.000	23.99
230	849.4	126.0	2.0000	3.01	1.000	24.48
240	824.6	150.8	2.0000	3.01	1.000	26.45
250	936.1	39.3	2.0000	3.01	1.000	13.55
260	956.6	18.8	2.0000	3.01	1.000	12.00
270	956.3	19.1	2.0000	3.01	1.000	12.00
280	970.6	4.8	2.0000	3.01	1.000	12.00
290	969.1	6.3	2.0000	3.01	1.000	12.00
300	921.0	54.4	2.0000	3.01	1.000	16.15
310	865.4	110.0	2.0000	3.01	1.000	23.10
315	861.8	113.6	2.0000	3.01	1.000	23.44
320	874.2	101.2	2.0000	3.01	1.000	22.19
330	910.7	64.7	2.0000	3.01	1.000	17.69
340	979.8	-4.4	2.0000	3.01	1.000	12.00
350	1026.2	-50.8	2.0000	3.01	1.000	12.00

FCC 30 second Terrain Data  
(yellow highlighted values establish average HAAT)

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**Community of License Coverage Compliance with 73.515**

The population of St. George, UT is 87,758 (2017 census estimate) with an area of 183.7 sq. km. The proposed 60 dBu contour will cover 87,640 of the population (99.87%) and 172.9 sq. km of the area (94.1%), thus the proposed 60 dBu contour will continue to provide the required coverage over the community of license. The proposed 60 dBu contour will have overlap with the licensed 60 dBu contour.



**Educational Media Foundation**  
**Minor modification of Licensed Facility BLED-20051107AED**

**KLGU, St. George, UT**  
**September 2020**

**Technical Exhibit**

**Interference Study**

CH 212A 37 03 49.0 / 113 34 21.0 2.0 kW ERP (H&V, non-da) 975.4 m COR AMSL 62.7 m HAAT

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
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**Reference station:**

212C2	KLGU	LIC	163.4	25.09	36 50 48.90	2.000				
St. George	UT		343.5	BLED20051107AED	113 29 30.80	555	1921	Educational Media Foundation		

**Co-channel, first, second and third adjacent:**

210C0	KFDJ	CP	68.0	69.67	37 17 44.90	27.000	9.0	80.5	35.6	-12.9
Glendale	UT		248.4	BPED20190422AAA	112 50 36.80	541	2481	Advance Ministries, Inc.		

KFDJ was granted a construction permit with a waiver for received second adjacent interference from KLGU (formerly KSGU). KFDJ's CP Special Operating Condition No. 1 indicates "Furthermore, further modifications of Station KSGU will not be construed as a "per se" modification of KFDJ's facility. (See Educational Information Corporation, 6 FCC Rcd 2207 (1991))".

212A	KNAG	LIC	134.4	176.46	35 56 43.90	3.000	78.7	26.1	73.9	74.8
Grand Canyon	AZ		315.2	BLED20020123AAG	112 10 18.60	90	2046	Arizona Board Of Regents		
213A	KFDJ	LIC	73.9	84.99	37 16 15.90	0.450	11.7	8.3	48.9	46.3
Glendale	UT		254.5	BLED20130107AAJ	112 39 04.70	-236	1684	Advance Ministries, Inc.		
213C	KSOS	LIC	227.9	173.80	36 00 28.90	100.000	129.8	86.0	17.3	45.7
Las Vegas	NV		47.1	BMLED20171002AAE	115 00 22.90	387	1074	Faith Communications Corp		

**I.F. channels:**

266L1	KFUR-LP	LIC	268.9	0.16	37 03 48.90	0.020			0.0	0.0
St. George	UT		88.9	BLL20130513ABH	113 34 27.80	67	980	Latinos Unidos Broadcasting		

FCC 30 second terrain data

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**TV CH 6 Protection**

Per Section 73.525(a)(1), NCE-FM stations operating on CH 212 must provide protection to TV Channel 6 broadcast stations located within the distance of 195 km. There are no TV Channel 6 broadcast stations within 195 km of KLGU, therefore KLGU as proposed is in full compliance with all provisions of Section 73.525 with regard to TV Channel 6 protection.

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**Environmental Impact & RFR Compliance Statement**

KLGU will be located at an established communications site that is in compliance with all environmental impact requirements.

KLGU as proposed will operate with 2.0 kW ERP (H&V, non-DA) at an antenna COR AGL height of 24.4 meters. Per OET 65 worse case estimation the RFR at 2 meters above ground level will exceed the general population/uncontrolled MPE limit. There are other broadcast facilities on the tower. It is anticipated that the actual RFR will not exceed the general public/uncontrolled or controlled MPE limits, therefore, to ensure compliance, measurements will be taken during equipment tests of the completed facility.

RFR hazard warning signs will be posted at the site. The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.