

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

This minor modification application exhibit demonstrates compliance with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. This application proposes a new antenna (from DA to non-DA) with no changes to the ERP or antenna COR height as is indicated below:

	Licensed	Proposed
Channel / Class	226D	226D
ASRN	1025028	1025028
Geographical Coordinates (NAD 83)	39 12 49.8 119 46 13.6	39 12 49.8 119 46 13.6
Site AMSL	1808	1808.3 m
Tower AGL	33.5 m	33.5 m
COR AGL	20.0 m	20.0 m
COR AMSL	1828 m	1828.3 m
HAAT	82.4 m	83.3 m
ERP	0.095 kW (H&V, DA)	0.095 kW (H&V, non-DA)
ANTENNA	Scala CA5-FM	Nicom BKG77/1

Technical Exhibit

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

CH 226      39 12 49.8 / 119 46 13.6      0.095 kW ERP (H&amp;V, non-DA)      1828.3 m COR AMSL      83.3 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	1578.1	250.2	0.0950	-10.22	1.000	16.09
010	1663.9	164.4	0.0950	-10.22	1.000	13.05
020	1745.2	83.1	0.0950	-10.22	1.000	9.30
030	1891.4	-63.1	0.0950	-10.22	1.000	5.56
040	2058.1	-229.8	0.0950	-10.22	1.000	5.56
050	1910.8	-82.5	0.0950	-10.22	1.000	5.56
060	1780.9	47.4	0.0950	-10.22	1.000	6.95
070	1631.8	196.5	0.0950	-10.22	1.000	14.23
080	1524.7	303.6	0.0950	-10.22	1.000	17.89
090	1482.2	346.1	0.0950	-10.22	1.000	19.08
100	1513.8	314.5	0.0950	-10.22	1.000	18.22
110	1571.6	256.7	0.0950	-10.22	1.000	16.32
120	1567.7	260.6	0.0950	-10.22	1.000	16.46
130	1558.4	269.9	0.0950	-10.22	1.000	16.79
140	1593.5	234.8	0.0950	-10.22	1.000	15.56
150	1500.1	328.2	0.0950	-10.22	1.000	18.61
160	1502.2	326.1	0.0950	-10.22	1.000	18.55
170	1463.2	365.1	0.0950	-10.22	1.000	19.56
180	1464.0	364.3	0.0950	-10.22	1.000	19.54
190	1559.1	269.2	0.0950	-10.22	1.000	16.77
200	1651.9	176.4	0.0950	-10.22	1.000	13.53
210	1730.4	97.9	0.0950	-10.22	1.000	10.08
220	2013.4	-185.1	0.0950	-10.22	1.000	5.56
230	2190.0	-361.7	0.0950	-10.22	1.000	5.56
240	2211.8	-383.5	0.0950	-10.22	1.000	5.56
250	2157.4	-329.1	0.0950	-10.22	1.000	5.56
260	2143.4	-315.1	0.0950	-10.22	1.000	5.56
270	2035.7	-207.4	0.0950	-10.22	1.000	5.56
280	1981.2	-152.9	0.0950	-10.22	1.000	5.56
290	1948.7	-120.4	0.0950	-10.22	1.000	5.56
300	1993.8	-165.5	0.0950	-10.22	1.000	5.56
310	1975.3	-147.0	0.0950	-10.22	1.000	5.56
320	1895.2	-66.9	0.0950	-10.22	1.000	5.56
330	1704.3	124.0	0.0950	-10.22	1.000	11.27
340	1594.3	234.0	0.0950	-10.22	1.000	15.53
350	1548.7	279.6	0.0950	-10.22	1.000	17.12

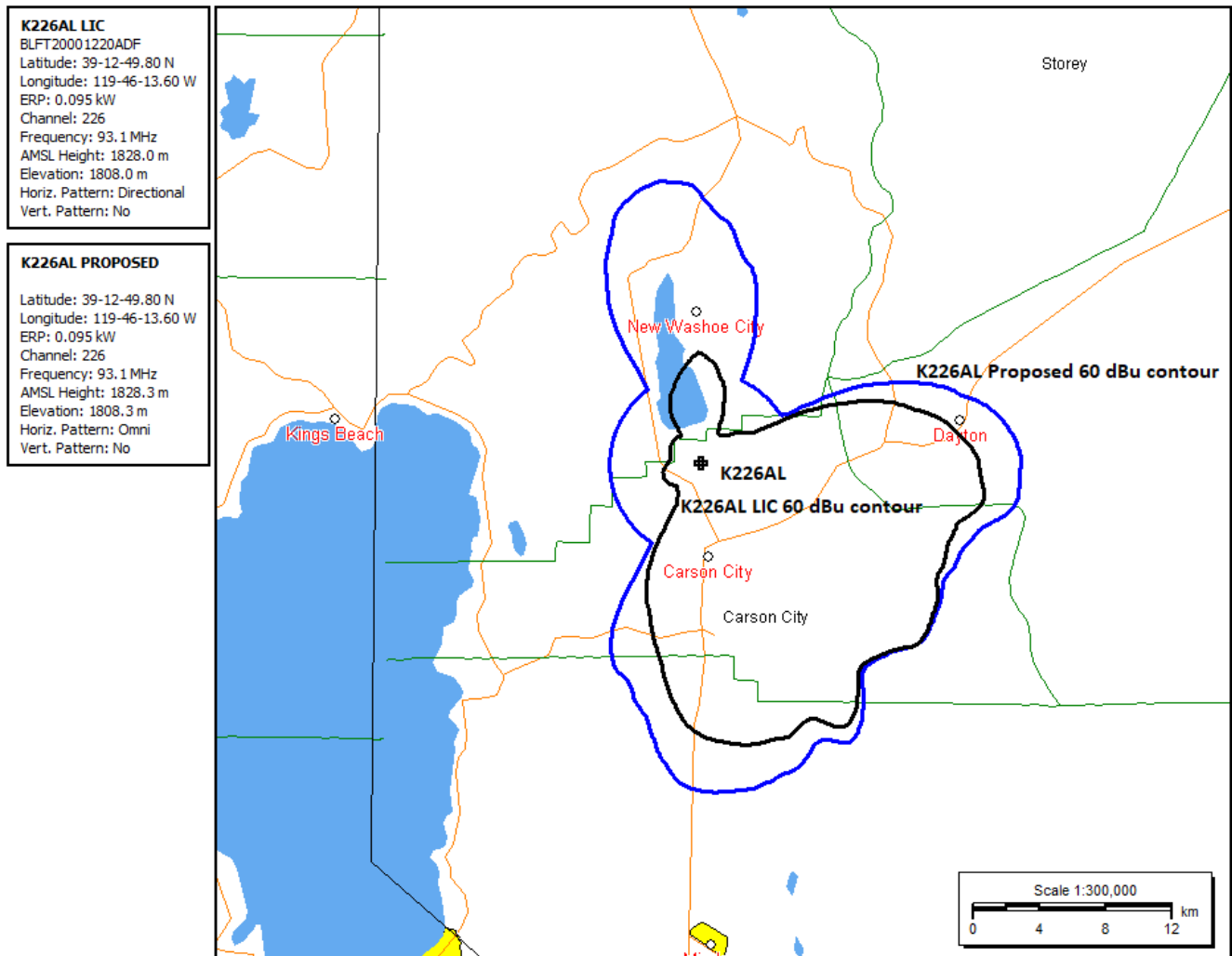
FCC 30 second terrain database

(yellow highlighted values establish average HAAT)

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**Licensed and proposed 60 dBu contour coverage map**

The proposed 60 dBu contour will continue to overlap the licensed 60 dBu contour.



FCC 30 second terrain database

**Technical Exhibit**

**Interference Study**

CH 226 39 12 49.8 / 119 46 13.6 0.095 kW ERP (H&V, non-DA) 1828.3 m COR AMSL 83.3 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:**

226D	K226AL	LIC	217.8	0.00	39 12 49.70	0.095				
Carson City	NV		37.8	BLFT20001220ADF	119 46 13.70	82	1828	Educational Media Foundation		

**1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> adjacent channel relationships:**

223D	K223AL	LIC	356.5	41.14	39 35 01.60	0.250	1.1	22.8	22.9	17.5
Reno	NV		176.5	BLFT20160303ABQ	119 47 58.60		1695	Reno Media Group, L.P.		
223B	KBEB	LIC	249.6	158.24	38 42 25.60	50.000	5.4	61.1	143.9	95.7
Sacramento	CA		68.6	BLH19850412KK	121 28 36.80	137	151	Amfm Broadcasting Licenses		
225C2	KLRH	LIC	356.2	41.19	39 35 02.60	48.000	97.0	66.6	-72.8	-50.6
Reno	NV		176.1	BMLED20140516AAV	119 48 09.60	153	1713	Educational Media Foundation		

Existing overlap with KLRH which is primary station for K226AL (K226AL rebroadcasts same programming as KLRH, reference Fill-in Exhibit)

226B1	KFBK-FM	LIC	229.7	98.87	38 38 10.10	20.500	95.5	25.4	-9.1	51.4
Pollock Pines	CA		49.2	BLH20090604ABN	120 38 17.70	111	974	Ihm Licenses, LLC		
227D	K227AW	LIC	275.6	32.05	39 14 29.00	0.006	20.6	12.5	5.9	11.6
Truckee	CA		95.4	BLFT20060825AAX	120 08 24.00	605	2639	Relevant Radio, Inc.		
227L1	KBOK-LP	LIC	358.7	33.52	39 30 56.70	0.100			8.6	2.8
Reno	NV		178.7	BLL20160401ABO	119 46 45.70	-97	1370	Sonrise Church D/b/a Calvary		
227C0	KJDX	LIC	333.9	153.77	40 27 12.60	100.000	132.3	88.4	5.1	42.3
Susanville	CA		153.3	BLH20091110ABN	120 34 17.80	352	1822	Sierra Broadcasting Corp		
228D	K228DA	LIC	46.7	7.03	39 15 25.70	0.170	0.6	23.3	0.7	-17.0
Carson City	NV		226.8	BLFT20160630AAR	119 42 39.70		2277	Reno Media Group, L.P.		
229A	KPGF	LIC	356.6	41.14	39 35 01.60	3.600	2.5	34.6	21.5	5.7
Sun Valley	NV		176.5	BLH20020416AAT	119 47 57.60	129	1687	Flinn Broadcasting Corp		

**I.F. relationships:**

None

FCC 30 second terrain database

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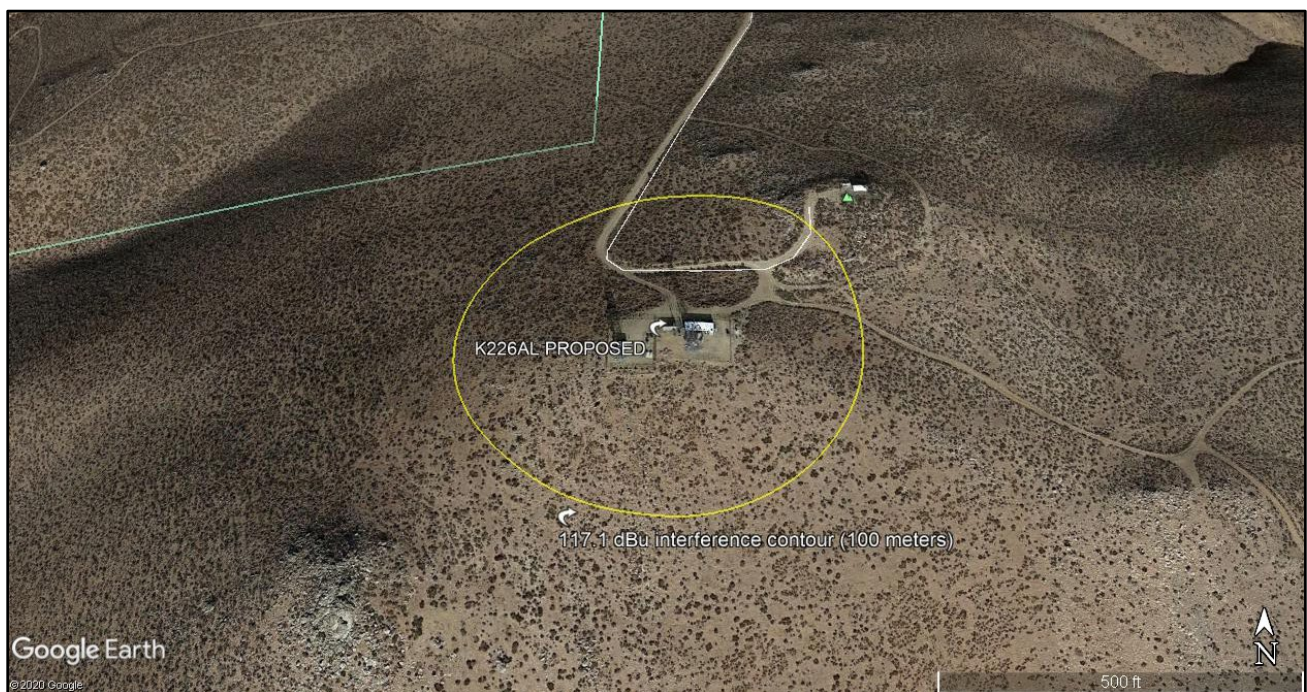
**Interference Study**

K226AL is located within the protected contour of the following second adjacent facility:

K228DA (LIC), CH 228D, Carson City, NV

K228DA signal strength at the K226AL site	77.1 dBu
K226AL interference contour	117.1 dBu
Distance to K226AL interference contour	100 meters

K226AL's interference contour to K228DA extends out 100 meters from the tower and will not cover any population or occupied buildings (see below map). Therefore, based on the showing of no population within the area of predicted interference a waiver of Section 74.1204(d) is respectfully requested.



**Technical Exhibit**

**Environment Impact & RFR Compliance**

K226AL is located at an established communications site that is in compliance with all environmental impact requirements.

This application specifies no change to the licensed ERP of 0.095 kW (H&V) and the antenna COR AGL height of 20.0 meters. The only change is from a directional antenna to a non-directional antenna. For a worse case estimation at 2 meters above ground level the RFR is no more than 9.8% of the general population/uncontrolled MPE limit. There are other broadcast facilities at the site.

Per Section 1.1307(b)(1) Table 1, any Part 74 Subpart L facility with an ERP of 100 watts or less is categorically excluded from environmental evaluation, therefore K226AL is in compliance with all environmental and RFR requirements.

RFR hazard warning signs are posted at the site and the site has restricted access to only authorized personnel. 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.