

Minor Modification Application

K236CN, Reno, NV –Fill-in Translator for KCMY (AM)

Correction of Coordinates

This technical statement and attached exhibits have been prepared on behalf of The Evans Broadcasting Company, Inc, (“Evans”), licensee of station K236CN, Reno, NV Facility identifier 156706. Evans proposes to modify the license for K236CN to correct the operating coordinates and operating parameters due to an error discovered in the original filing. K236CN is used as a fill-in translator for co-owned KCMY (AM), 1300kHz, Carson City, NV, Facility identifier 40801.

FACILITIES REQUESTED

The 60dBu contour of the requested facility will operate within the 2mV/m contour of KCMY (AM) and will be contained within 25 miles of the KCMY transmitter. A map showing the location of this translator is shown in Exhibit A. The antenna being used is a dual Jampro Java, single level log-periodic antenna. The Azimuth Pattern is attached as Exhibit B.

PROPOSED TECHNICAL PARAMETERS

Booster Location:	Reno, NV
ASR	NONE (not required, exhibit E)
Geographic Coordinates (NAD27):	39°28’56” N, 119° 50’ 04” W
Channel:	236 (95.1 MHz)
Effective Radiated Power:	99 W (H+V)
Antenna Type, Pattern:	Dual Jampro Java, 20deg slant
Antenna Orientation:	105°, 335° True
Site Height AMSL	1487m
Tower OAGL	15m
Antenna Height :	
Above ground:	15.0m
Above mean sea level:	1502.0m

INTERFERENCE STUDY

ComStudy 2.2 search of channel 236 (95.1 MHz Class D) at 39-28-56.0 N, 119-50-04.0 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
K236CN	RENO	NV 236 D	3.73	0.00	179.9	-56.68 dB Current LIC
KUUB	SUN VALLEY	NV 233 C2	11.68	0.00	15.5	-33.33 dB Exhibit C
KNEV	RENO	NV 238 C	27.18	0.00	155.7	-27.84 dB Exhibit C
KOZZ-FM	RENO	NV 289 C	27.13	29.00	155.9	-1.9 IF Short-99w limit
K273BI	TRUCKEE	CA 235 D	11.70	0.00	15.7	0.86 dB Exhibit D
KNVC-LP	CARSON CITY	NV 236 LP100	30.34	24.00	169.4	6.77 dB Exhibit D
K236AP	FALLON	NV 236 D	93.09	0.00	89.2	18.78 dB
K236BQ	CARMICHAEL	CA 236 D	157.65	0.00	235.6	29.72 dB
K236BQ	NATOMAS	CA 236 D	175.05	0.00	234.9	32.23 dB
K235BJ	HOMEWOOD	CA 235 D	52.45	0.00	208.1	35.05 dB
KMXI	CHICO	CA 236 B	169.80	0.00	288.3	36.70 dB
KKDO	FAIR OAKS	CA 234 B1	157.65	0.00	235.6	36.71 dB
KHOP	OAKDALE	CA 236 B	196.81	0.00	197.8	37.42 dB

K236CN is short-spaced to KOZZ-FM on the IF frequency 289C, 53 channels removed from the proposed translator. Because the proposed translator will be operating at under 100 watts, this operation is permitted.

Exhibit D demonstrates compliance with Rule 74.1201(g) governing the use of a translator as a fill-in for an AM station. The 60dBu contour of the proposed translator will be completely contained within the 2mV/m contour of KCMY (AM) and is within 25 miles of the KCMY transmitter.

Exhibit D demonstrates compliance with Rule 74.1204(a). There are no impermissible contour overlaps to any other facilities.

As demonstrated in Exhibit C, per Rule 74.1204(d), there will be no location at ground level where the signal of the proposed translator will be in excess of 40dBu above the KNEV-FM or KUUB (FM) second adjacent signal.

ENVIRONMENTAL CONSIDERATIONS

The Booster will be attached on a 5-meter pole on an existing 10-meter building. As shown in Exhibit E, this structure passes the glide slope calculation and is thus exempt from the requirement of an FCC Antenna Structure Registration.

Because the specified ERP is less than 100 watts, RF Exposure evaluation is categorically excluded under 1.1307(b).

The applicant agrees to reduce power or cease operations when it becomes necessary if workers are near the antenna in order to ensure that they will not be exposed to levels of radio frequency electromagnetic radiation that exceed FCC guidelines.

CERTIFICATION

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.



Bertram S. Goldman
Goldman Engineering Management

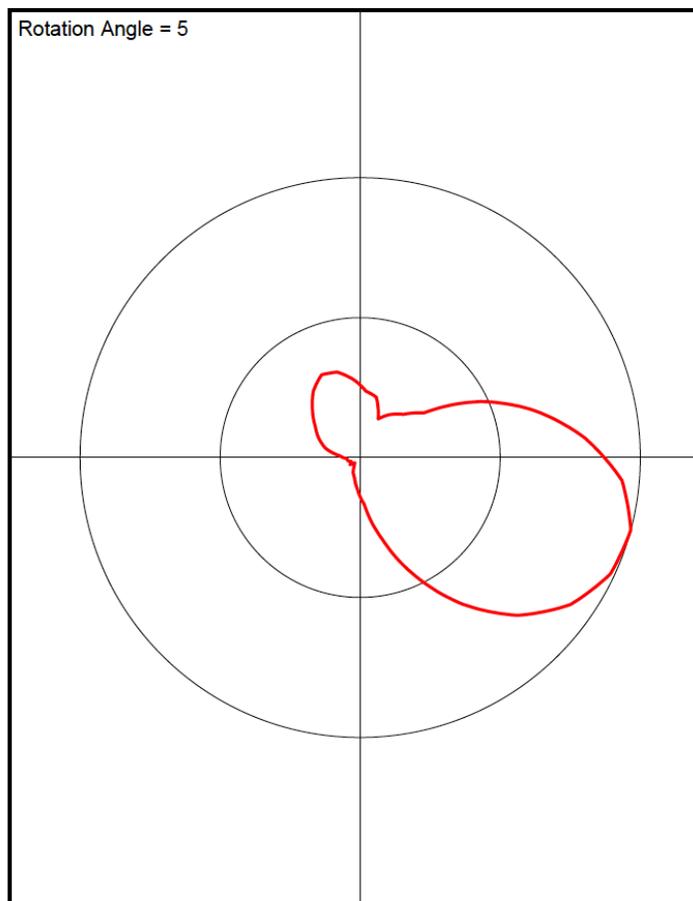
EXHIBIT A- Google Earth plot of building location



Exhibit B- Proposed Antenna Pattern

K236CN Modified Pattern
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.238
5.0	0.2305
10.0	0.223
15.0	0.1875
20.0	0.152
25.0	0.17
30.0	0.188
35.0	0.203
40.0	0.218
45.0	0.248
50.0	0.278
55.0	0.3755
60.0	0.473
65.0	0.5595
70.0	0.646
75.0	0.7255
80.0	0.805
85.0	0.8715
90.0	0.938
95.0	0.969
100.0	1.0
105.0	0.9925
110.0	0.985
115.0	0.9505
120.0	0.916
125.0	0.8565
130.0	0.797
135.0	0.7185
140.0	0.64
145.0	0.5535
150.0	0.467
155.0	0.3835
160.0	0.3
165.0	0.234
170.0	0.168
175.0	0.1405
180.0	0.113
185.0	0.0945
190.0	0.076
195.0	0.0675
200.0	0.059
205.0	0.048
210.0	0.037
215.0	0.0315
220.0	0.026
225.0	0.035
230.0	0.044
235.0	0.039
240.0	0.034
245.0	0.0395
250.0	0.045
255.0	0.0465
260.0	0.048
265.0	0.061
270.0	0.074
275.0	0.101
280.0	0.128
285.0	0.1455
290.0	0.163
295.0	0.1795
300.0	0.196
305.0	0.2185
310.0	0.241
315.0	0.266



320.0	0.291
325.0	0.3085
330.0	0.326
335.0	0.321
340.0	0.316
345.0	0.298
350.0	0.28
355.0	0.259

Exhibit C- 74.1204(d) Compliance to KNEV

K236CN Reno , NV
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.099
 Translator or LPFM Antenna Height AG = 14 Meters
 K236CN Antenna Model = SHPX1H

Protected Station's Contour = 87.53134 dBu
 Translator's or LPFM's full Interference contour 127.53134

Review Azimuth = 105 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.099 kW
 Distance between stations = 27.2 km
 Protected Station= KNEV, 60 kW, 2339 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0990	029.3258	029.3258	015.000
05.00	0.993	1.0	0.0976	029.1206	029.0098	012.462
10.00	0.974	1.0	0.0939	028.5634	028.1294	010.040
15.00	0.941	1.0	0.0877	027.5956	026.6553	007.858
20.00	0.897	1.0	0.0797	026.3053	024.7189	006.003
25.00	0.843	1.0	0.0704	024.7217	022.4055	004.552
30.00	0.78	1.0	0.0602	022.8742	019.8096	003.563
35.00	0.709	1.0	0.0498	020.7920	017.0318	003.074
40.00	0.633	1.0	0.0397	018.5633	014.2203	003.068
45.00	0.554	1.0	0.0304	016.2465	011.4880	003.512
50.00	0.473	1.0	0.0221	013.8711	008.9162	004.374
55.00	0.394	1.0	0.0154	011.5544	006.6273	005.535
60.00	0.317	1.0	0.0099	009.2963	004.6481	006.949
65.00	0.245	1.0	0.0059	007.1848	003.0364	008.488
70.00	0.181	1.0	0.0032	005.3080	001.8154	010.012
75.00	0.124	1.0	0.0015	003.6364	000.9412	011.488
80.00	0.077	1.0	0.0006	002.2581	000.3921	012.776
85.00	0.041	1.0	0.0002	001.2024	000.1048	013.802
90.00	0.016	1.0	0.0000	000.4692	000.0000	014.531

Exhibit C- 74.1204(d) Compliance to KUUB (FM)

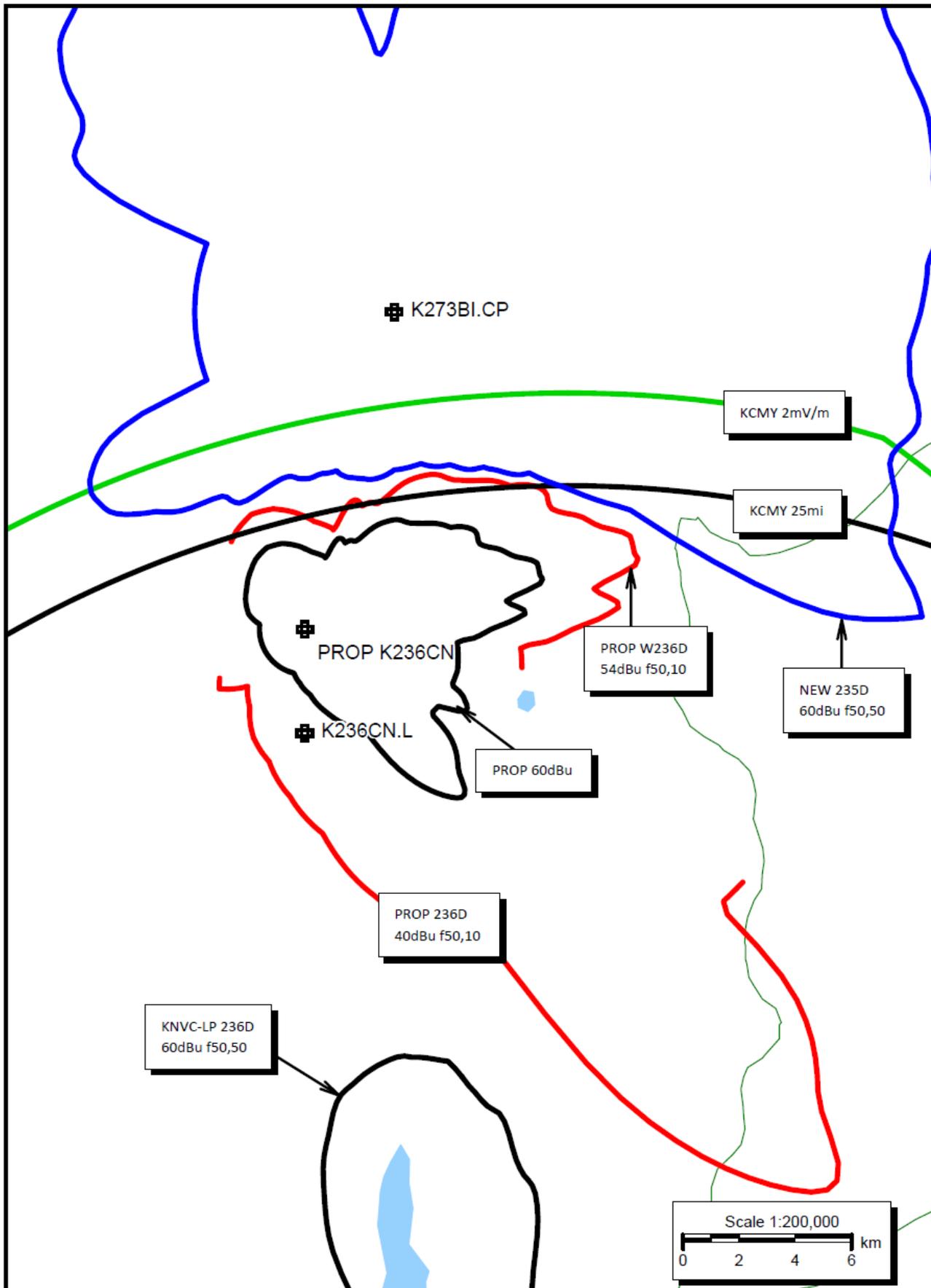
K236CN Reno , NV
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.099
 Translator or LPFM Antenna Height AG = 14 Meters
 K236CN Antenna Model = SHPX1H

Protected Station's Contour = 91.6999 dBu
 Translator's or LPFM's full Interference contour 131.6999

Review Azimuth = 105 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.099 kW
 Distance between stations = 11.7 km
 Protected Station= KUUB, 50 kW, 1698 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0990	018.1477	018.1477	015.000
05.00	0.993	1.0	0.0976	018.0207	017.9521	013.429
10.00	0.974	1.0	0.0939	017.6759	017.4074	011.931
15.00	0.941	1.0	0.0877	017.0770	016.4951	010.580
20.00	0.897	1.0	0.0797	016.2785	015.2968	009.432
25.00	0.843	1.0	0.0704	015.2985	013.8652	008.535
30.00	0.78	1.0	0.0602	014.1552	012.2588	007.922
35.00	0.709	1.0	0.0498	012.8667	010.5398	007.620
40.00	0.633	1.0	0.0397	011.4875	008.8000	007.616
45.00	0.554	1.0	0.0304	010.0538	007.1091	007.891
50.00	0.473	1.0	0.0221	008.5839	005.5176	008.424
55.00	0.394	1.0	0.0154	007.1502	004.1012	009.143
60.00	0.317	1.0	0.0099	005.7528	002.8764	010.018
65.00	0.245	1.0	0.0059	004.4462	001.8790	010.970
70.00	0.181	1.0	0.0032	003.2847	001.1234	011.913
75.00	0.124	1.0	0.0015	002.2503	000.5824	012.826
80.00	0.077	1.0	0.0006	001.3974	000.2427	013.624
85.00	0.041	1.0	0.0002	000.7441	000.0648	014.259
90.00	0.016	1.0	0.0000	000.2904	000.0000	014.710

Exhibit D- 74.1204(a), 74.1201(g) Compliance
Corrected K236CN Allocation



TOWAIR Determination Results

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. The structure meets the 6.10-meter (20-foot) Rule criteria.

Your Specifications

NAD83 Coordinates

Latitude	39-28-56.0 north
Longitude	119-50-04.0 west

Measurements (Meters)

Overall Structure Height (AGL)	15
Support Structure Height (AGL)	9
Site Elevation (AMSL)	1483

Structure Type

B - Building