

EASTERN SIERRA BROADCASTING
New AM Radio Station
Reno, NV
1180 kHz, 7.5 kW-D, 7.5 kW-CH, 1 kW-N, DA-N, U

ENGINEERING STATEMENT

This engineering statement, together with the attached amended figures, has been prepared on behalf of Eastern Sierra Broadcasting in response to a Commission letter of March 16, 2009. File number of the pending application is BNP-20080602BQY (facility ID #160544). By this filing, the applicant specifies slightly different site coordinates, and has changed tower height and parameters of the nighttime pattern to protect all subject stations and proposals. No change is being made to operating frequency or power.

Overall height of each tower is 54.2 meters, while the height above mean sea level is 1511.1 meters. All three towers pass the tower test and do not require marking or lighting. Each tower is 75.6° at 1180 kHz. Since the site is 0.26 kilometer from KBDB (1400 kHz), Sparks, NV, appropriate traps shall be installed at both stations to preclude intermodulation products. The proposed site is also in an area designated as an antenna farm by the Nevada Bureau of Land Management.

The proposed ground system will consist of 120 copper radials 63.5 meters in length and 120 interspersed radials 15.2 meters in length, buried 12.7cm or 5" beneath ground level, except where shortened to 10 cm copper bonding strap.

ENVIRONMENTAL CONSIDERATIONS

The Commission's Rules implementing the Environmental Policy Act does not categorize this proposal as a major action, as it does not involve any of the facilities or actions listed under §1.305 or §1.307 of the Rules.

Regarding the non-ionizing radiofrequency emission from the proposed antenna, Table 2 on page 4 of O.E.T. Bulletin No. 65 (August 1997 Edition) list the distances in meters at which fields from AM stations are predicted to fall below the FCC and ANSI maximum.

For a 7.5 kW station with 0.210 wavelength antennas, the tower fence must be, by interpolation, at least 2 meters from the tower face. Since the applicant proposes fencing complying with these distance requirements, the FCC and ANSI limits will not be exceeded.

Should any maintenance worker require access to the towers, the proposed facility will either reduce power or cease operation until workers are outside the tower fence. Appropriate RF warning signs exist at the sides of the fences and it may be assumed that there will be no significant effect on the human environment with regard to exposure of the general public.

DAYTIME ALLOCATION CONSIDERATIONS

A study has been again made of stations on 1180 kHz and on channels within 30 kHz of that frequency in determining the protection requirements of the proposed daytime operation. Those stations which were deemed to merit particular consideration are:

KERN - Wasco Greenacre, CA	1180 kHz, 50 kW-D, 10 kW-N, DA-2, U
NEW - Jacksonville, OR	1180 kHz, 50 kW-D, 5 kW-N, DA-2, U
KLOK - San Jose, CA	1170 kHz, 50 kW-D, 5 kW-N, DA-2, U
KDYA (Lic) - Vallejo, CA	1190 kHz, 1 kW-D
KDYA (CP) - Vallejo, CA	1190 kHz, 3.5 kW, DA-D

The remaining stations studied were at such a distance so as not to require detailed contour protection study. Figures 8A to 8C are allocation maps showing contours of particular allocation interest for this proposal and the above listed stations. Location of contours for these stations employed notified inverse fields in conjunction with M-3 soil conductivity. Figures 9A through 9F are facility data and conductivity tabulations for this proposal and the above facilities and proposals.

NIGHTTIME ALLOCATION CONSIDERATIONS

Figure 10A is a tabulation of the nighttime protection study to all authorized facilities. In no case does the proposed nighttime pattern exceed these constraints. Figure 10B shows the proposed nighttime 0.025 mV/m 10% contour does not overlap the WHAM 0.5 mV/m 50% contour. Figure 10C Page 1 shows that the proposed nighttime 0.25 mV/m 10% skywave contour does not overlap the 0.5 mV/m groundwave contours of first-adjacent stations KEX and KFAQ, while Figure 10C Page 2 shows the proposed nighttime 0.05 mV/m 10% skywave contour does not overlap the 0.1 mV/m groundwave contour of KJNP. Figure 10D Pages 1 through 6 are night limit studies for KOFI, KYET, KERN, KORL, KLAY and KLOK, .

Figure 11A is a detailed night limit study of this proposal showing the 50% RSS limit at the proposed site to be 11.452 mv/m with contributions from KOFI. The 25% RSS limit was found to be 11.894 mv/m with contributions from KOFI & KERN. Figure 11B, Pages 1 and 2, are both tabulation and polar plot of the proposed nighttime pattern.

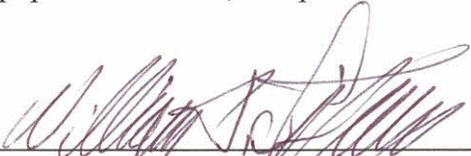
CRITICAL HOURS CONSIDERATIONS

Figure 12 is tabulation of a critical hours analysis for Class A station WHAM, Rochester, NY. The nearest point on the WHAM 0.1 mV/m groundwave contour is 3300.3 km at 72.2°T from this proposal and will allow a maximum inverse field of 6215 mV/m during critical hours. Since this proposal will radiate only 811.615 mV/m during critical hours, WHAM is duly protected.

PROPOSED SERVICE CONTOURS

Figures 5 and 6, respectively, show the proposed 5, 2 and 0.5 mv/m daytime contours. Figure 6 shows the proposed 11.452 and 5 mv/m nighttime contours. The daytime 5 mv/m contour serves all of Reno, NV and the nighttime 11.452 mv/m interference-free contour serves, by population block count, 191,499 or 90.7% of Reno's total population of 211, 183 persons.

April 9, 2009



William J. Sitzman
Consulting Radio Engineer

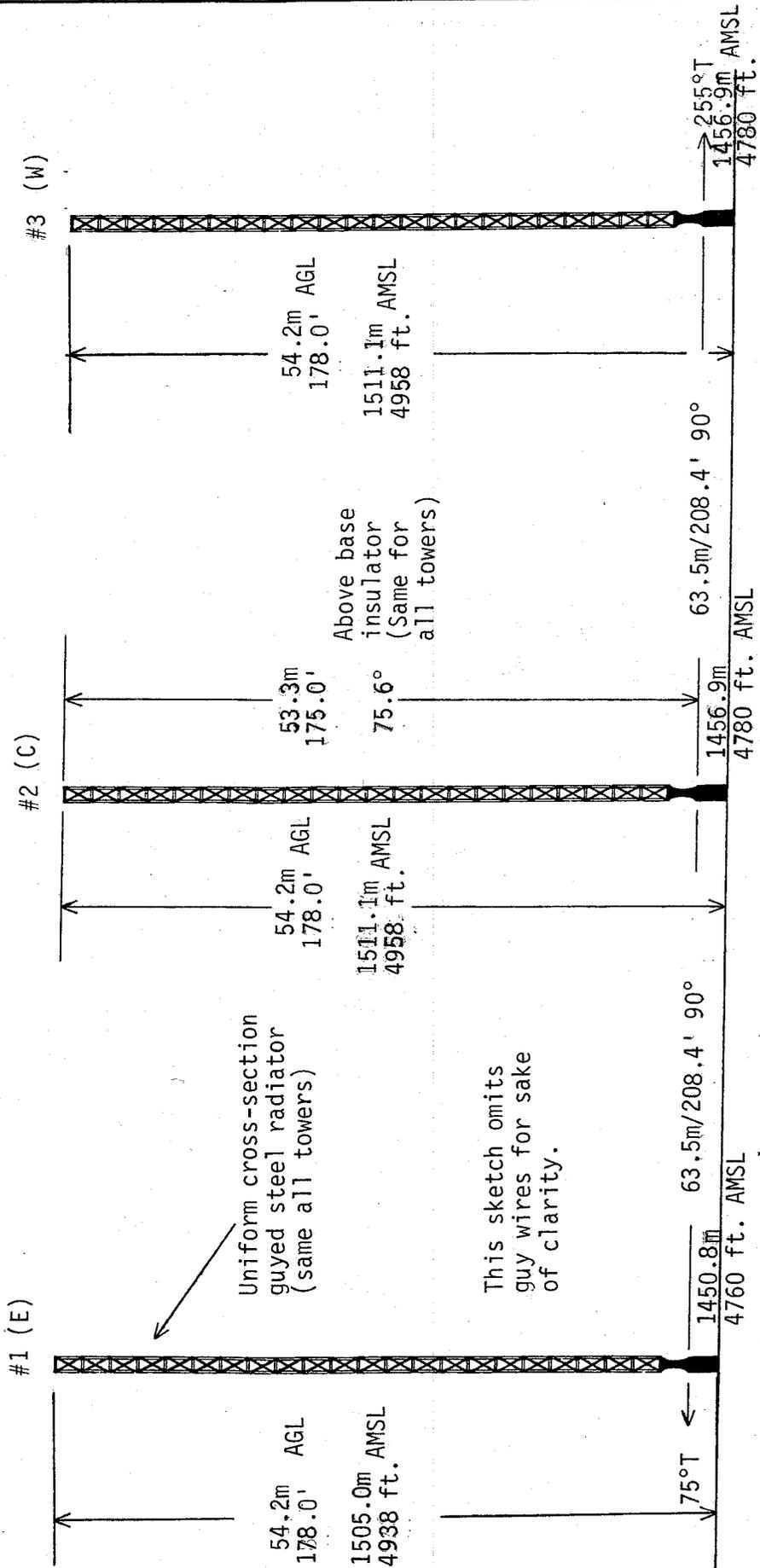
FIGURE 1 AMENDED

VERTICAL PLAN SKETCH OF PROPOSED ANTENNA SYSTEM - RENO, NV

N 39° 34' 05"
W 119° 45' 12"

NAD-27

EASTERN SIERRA BROADCASTING
Proposed New AM - Reno, NV
1180 KHZ.
7.5 kW-D, 1 kW-N, DA-N, U
April 2009



EASTERN SIERRA BROADCASTING
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ANTENNA SITE PHOTOGRAPH

Proposed Antenna Site:
N 39-34-05 W 119-45-12



Prop. Site Boundary

TRUE
NORTH

US

Approx. Scale: 1 inch = 150 meters

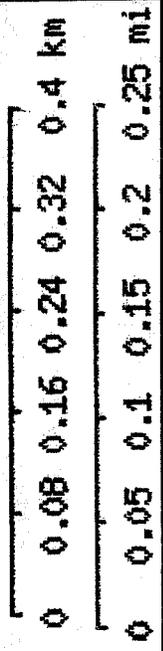
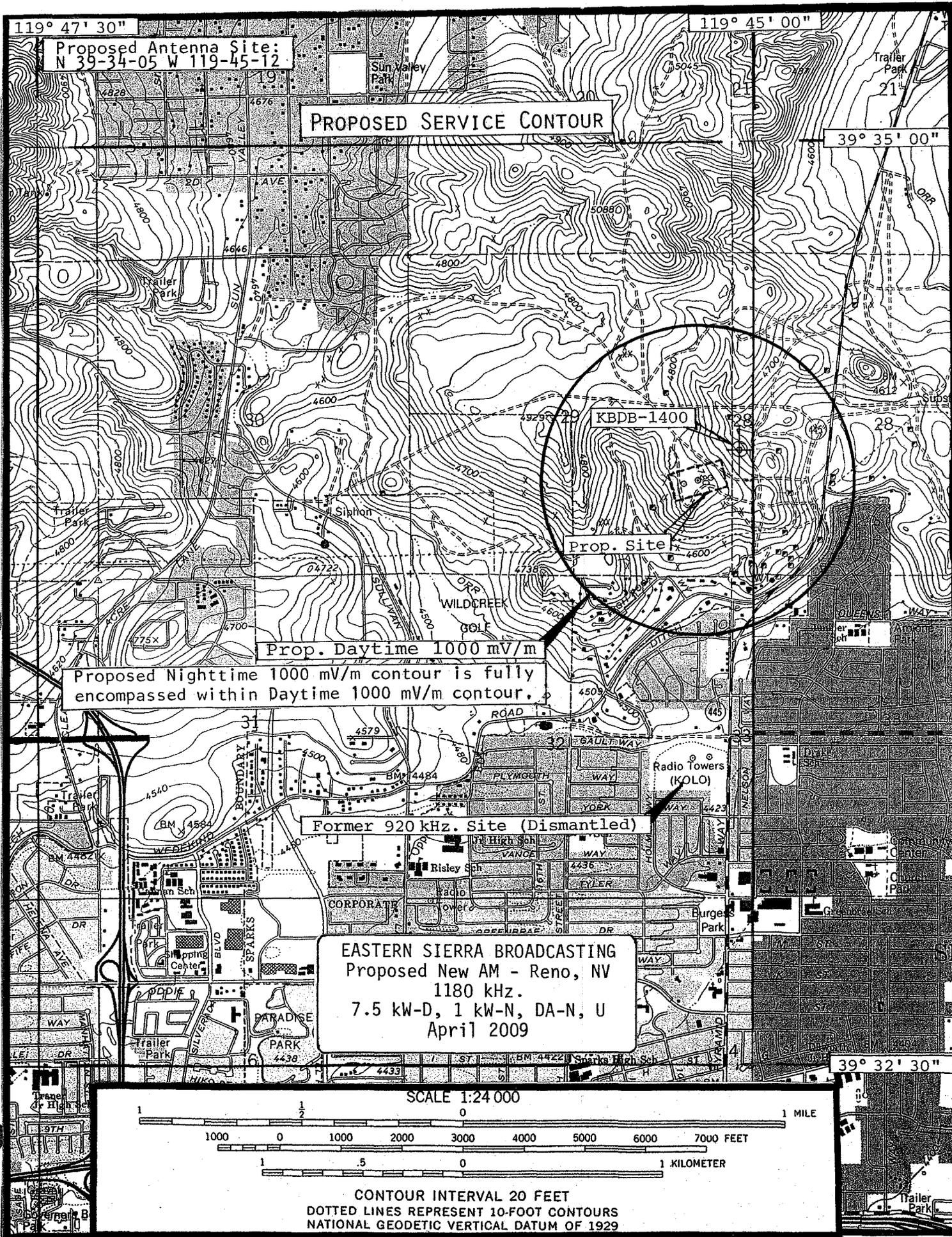
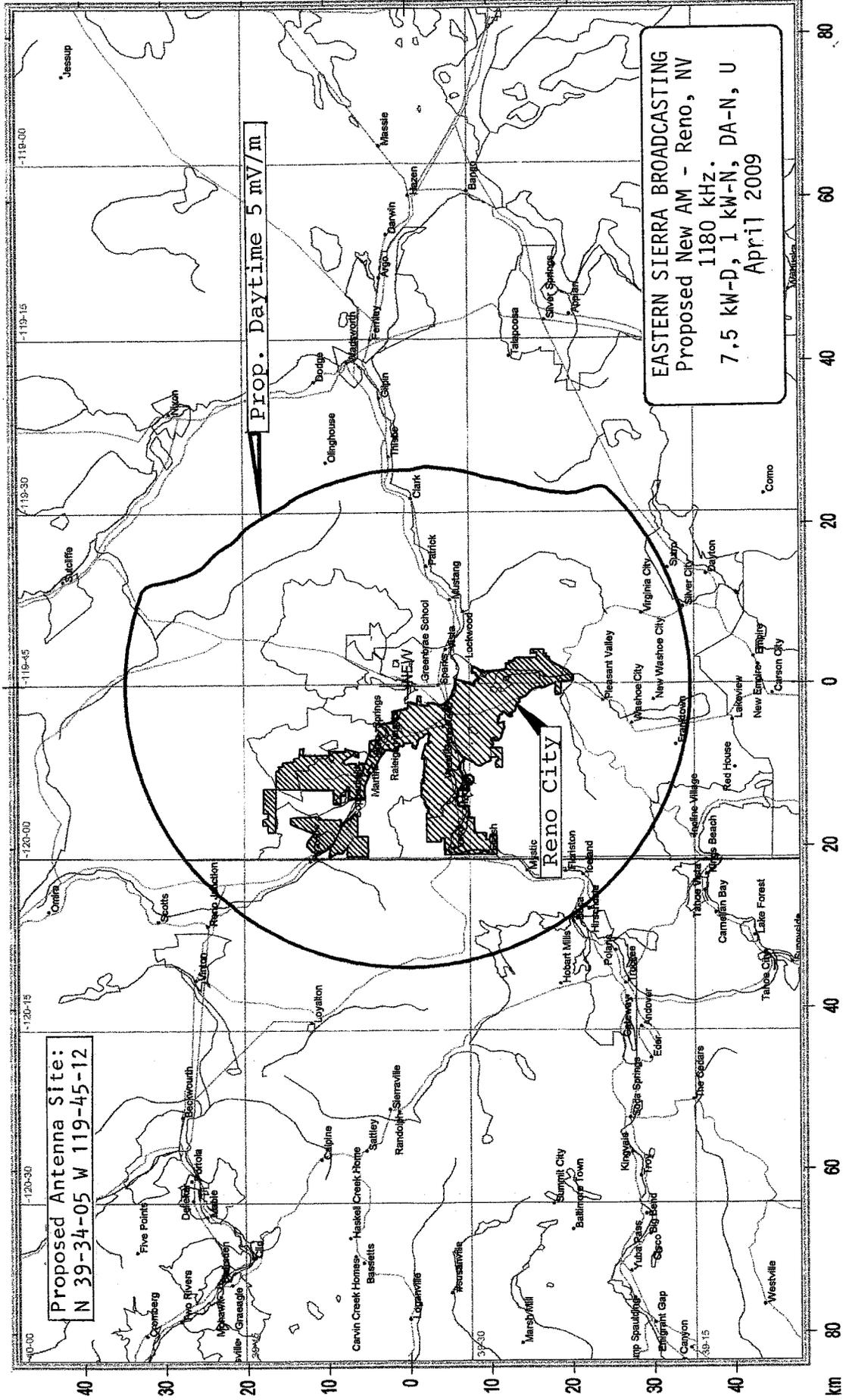


FIGURE 4 AMENDED

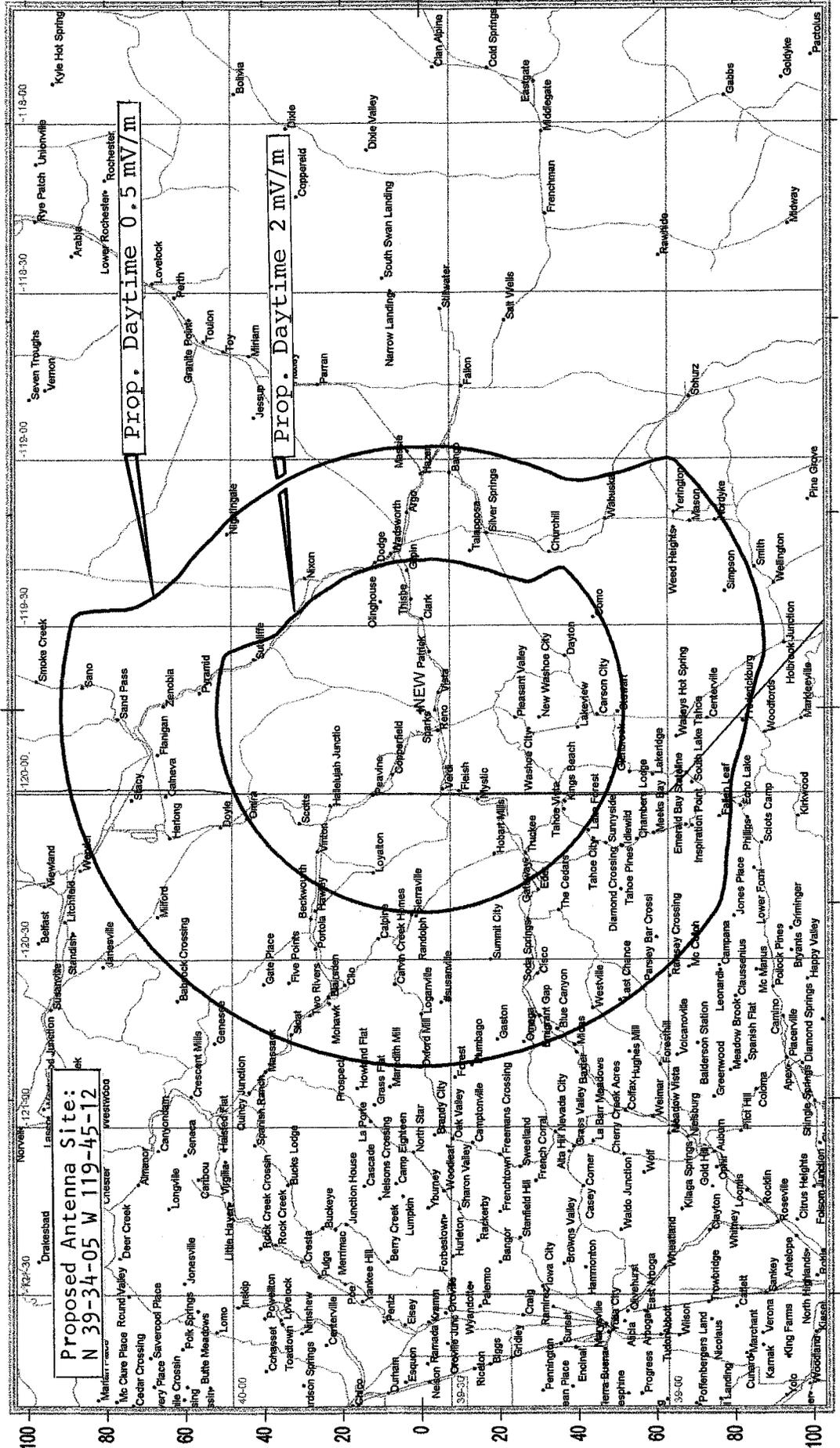


RENO, NV 1180 KHz - DAYTIME 5 mV/m CONTOUR



Proposed 5 mV/m Daytime contour encompasses 100 per cent of the City of Reno, NV.

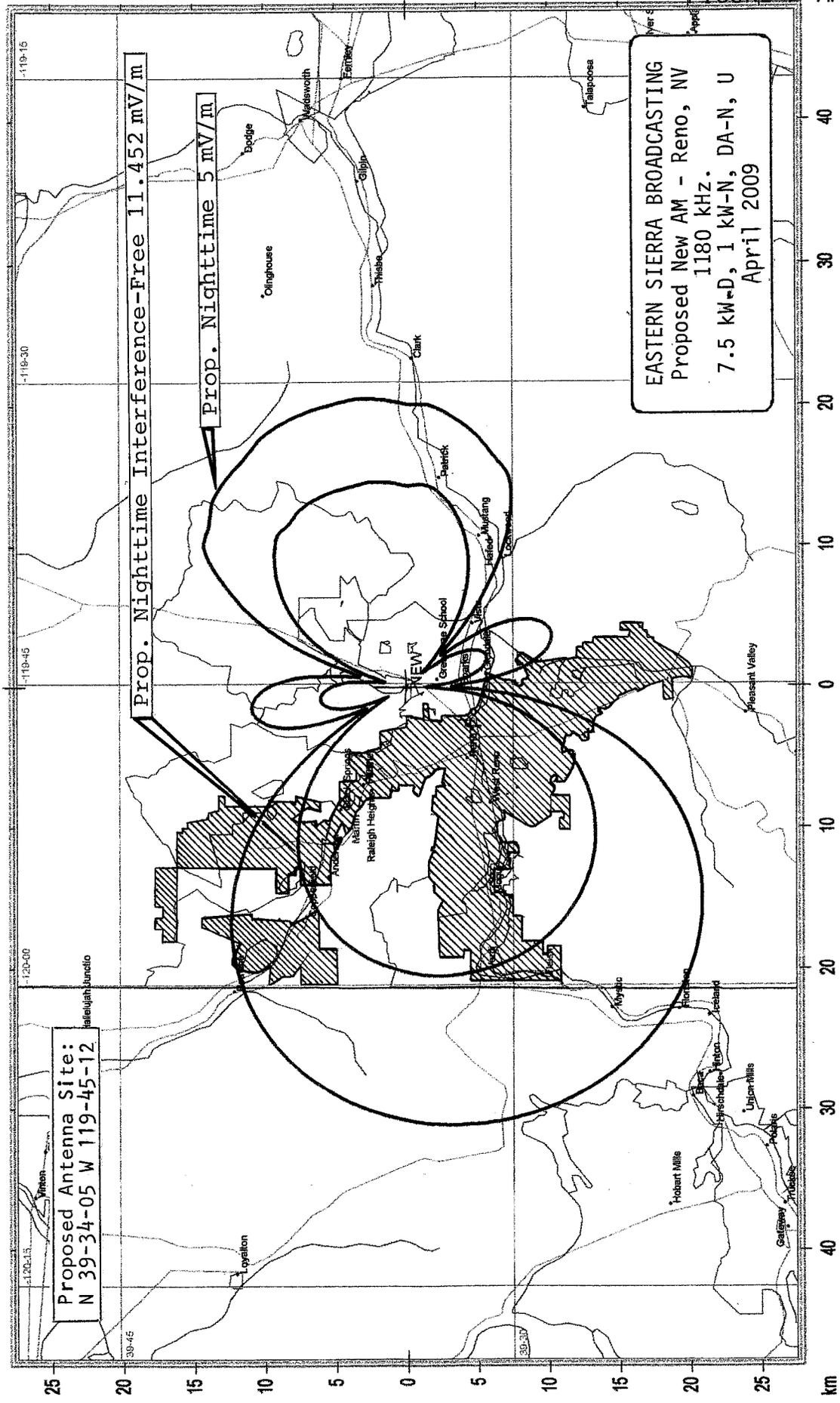
RENO, NV 1180 kHz - DAYTIME 2 & 0.5 mV/m CONTOURS



EASTERN SIERRA BROADCASTING
 Proposed New AM - Reno, NV
 1180 kHz.
 7.5 kW-D, 1 kW-N, DA-N, U
 April 2009

100 80 60 40 20 0 20 40 60 80 100 km

Reno, NV 1180 kHz Nighttime 11.452 & 5 mV/m Contours



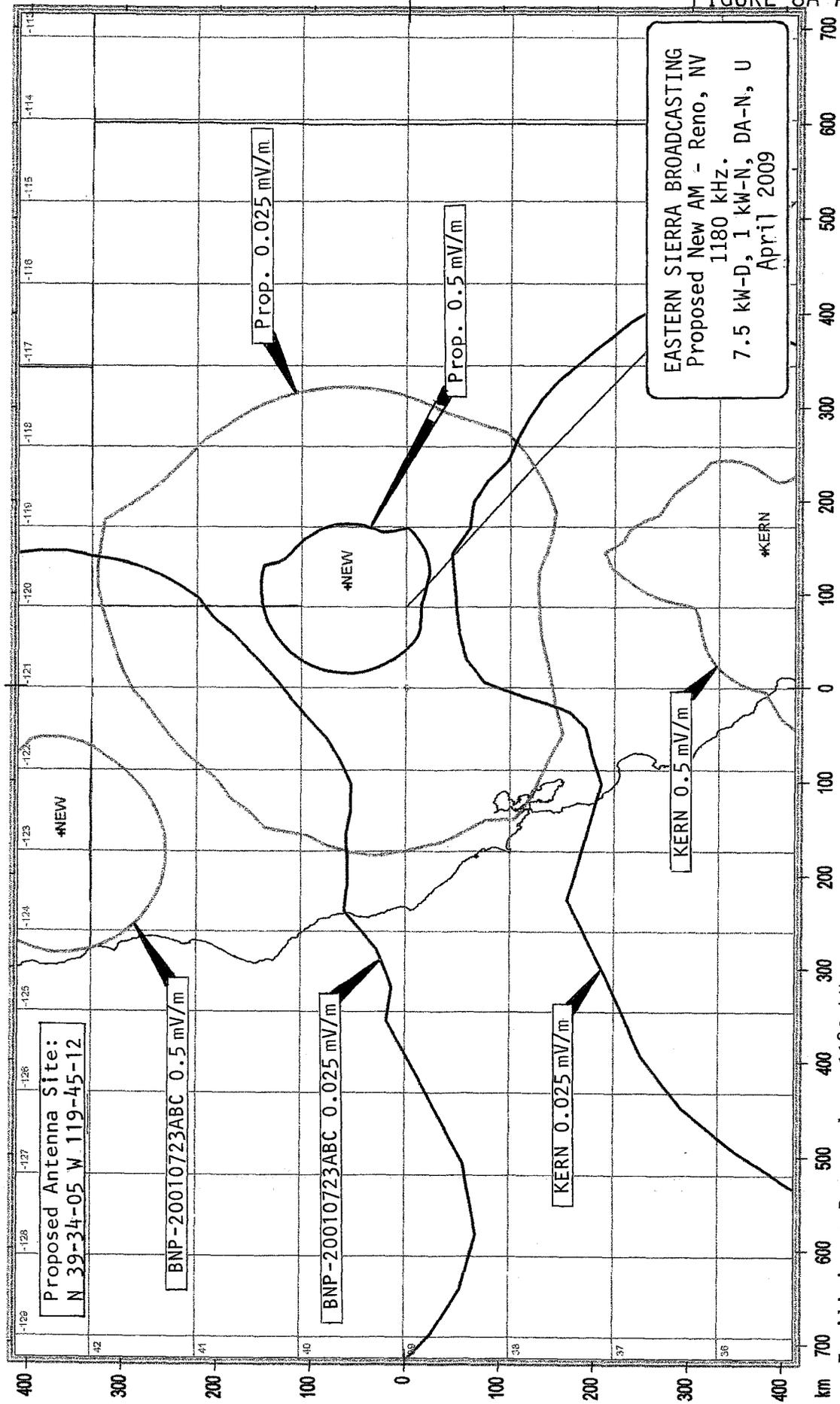
Proposed Antenna Site:
 N 39-34-05 W 119-45-12

EASTERN SIERRA BROADCASTING
 Proposed New AM - Reno, NV
 1180 kHz.
 7.5 kW-D, 1 kW-N, DA-N, U
 April 2009

Shaded areas on this map are within the boundaries of Reno, Nevada, as defined by the U.S. Census.

RENO, NV 1180 kHz - CO-CHANNEL ALLOCATION MAP

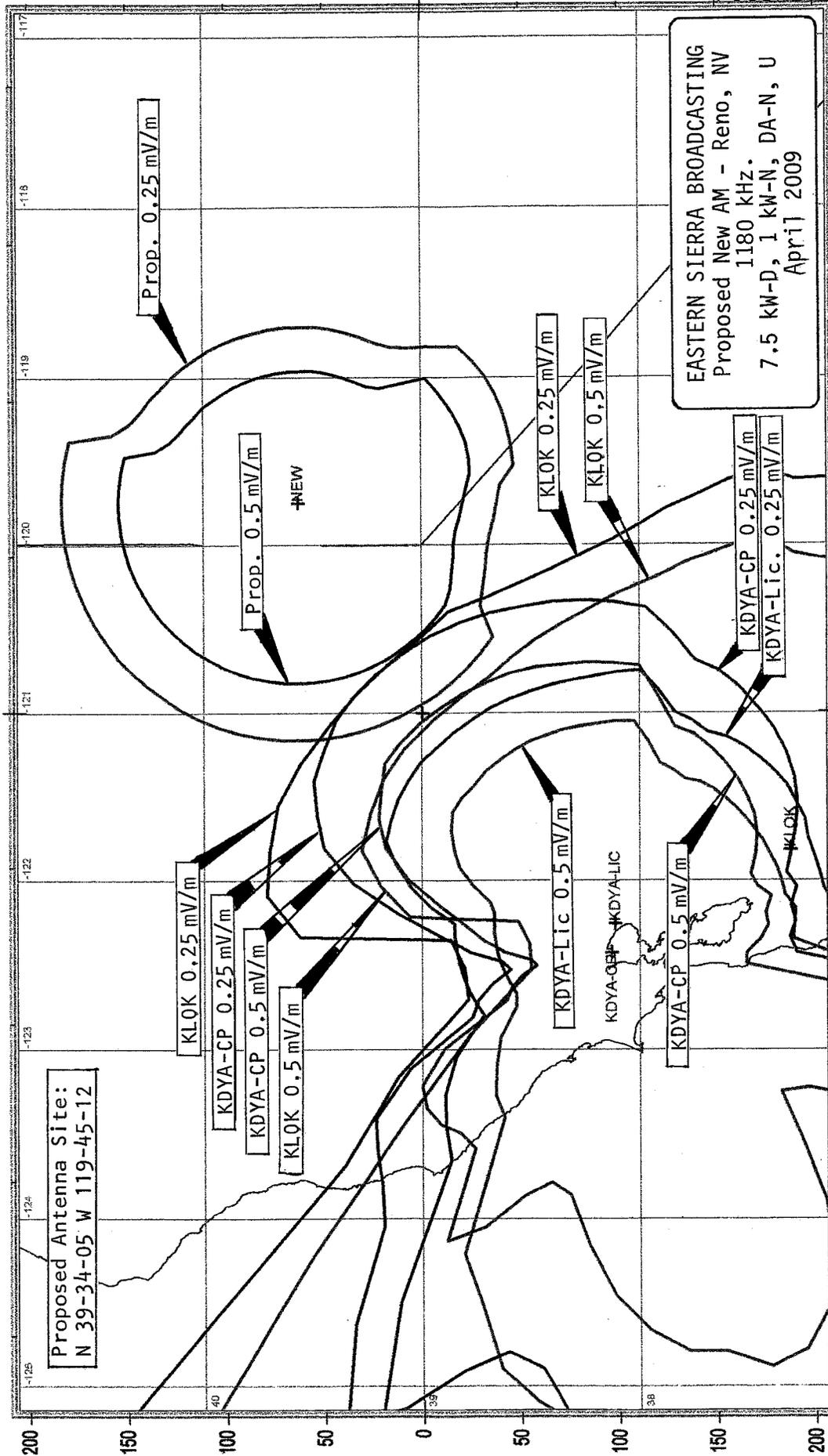
FIGURE 8A AMENDED



Facilities & Proposals:

Prop. New-App:	1180 kHz:	7.5 kW-D, 1 kW-N, DA-N, U	BNP-20080602BQY (as amended)
KERN-Lic:		50 kW-D, 10 kW-N, DA-2, U	
New-App:		50 kW-D, 5 kW-N, DA-2, U	BNP-20010723ABC (as amended)

RENO, NV 1180 kHz - FIRST-ADJACENT CHANNEL ALLOCATION MAP



Proposed Antenna Site:
N 39-34-05 W 119-45-12

Prop. 0.25 mV/m

Prop. 0.5 mV/m

KLOK 0.25 mV/m

KDYA-CP 0.25 mV/m

KDYA-CP 0.5 mV/m

KLOK 0.5 mV/m

KDYA-Lic 0.5 mV/m

KDYA-CP 0.5 mV/m

KLOK 0.25 mV/m

KLOK 0.5 mV/m

KDYA-CP 0.25 mV/m

KDYA-Lic. 0.25 mV/m

EASTERN SIERRA BROADCASTING
Proposed New AM - Reno, NV
1180 kHz.
7.5 kW-D, 1 kW-N, DA-N, U
April 2009

320 240 160 80 0 80 160 240 320

Facilities & Proposals: 1180 kHz: Prop. New-App: 7.5 kW-D, 1 kW-N, DA-N, U BNP-20080602BQY (as amended)

1170 kHz: KLOK-Lic: 50 kW-D, 5 kW-N, DA-2, U

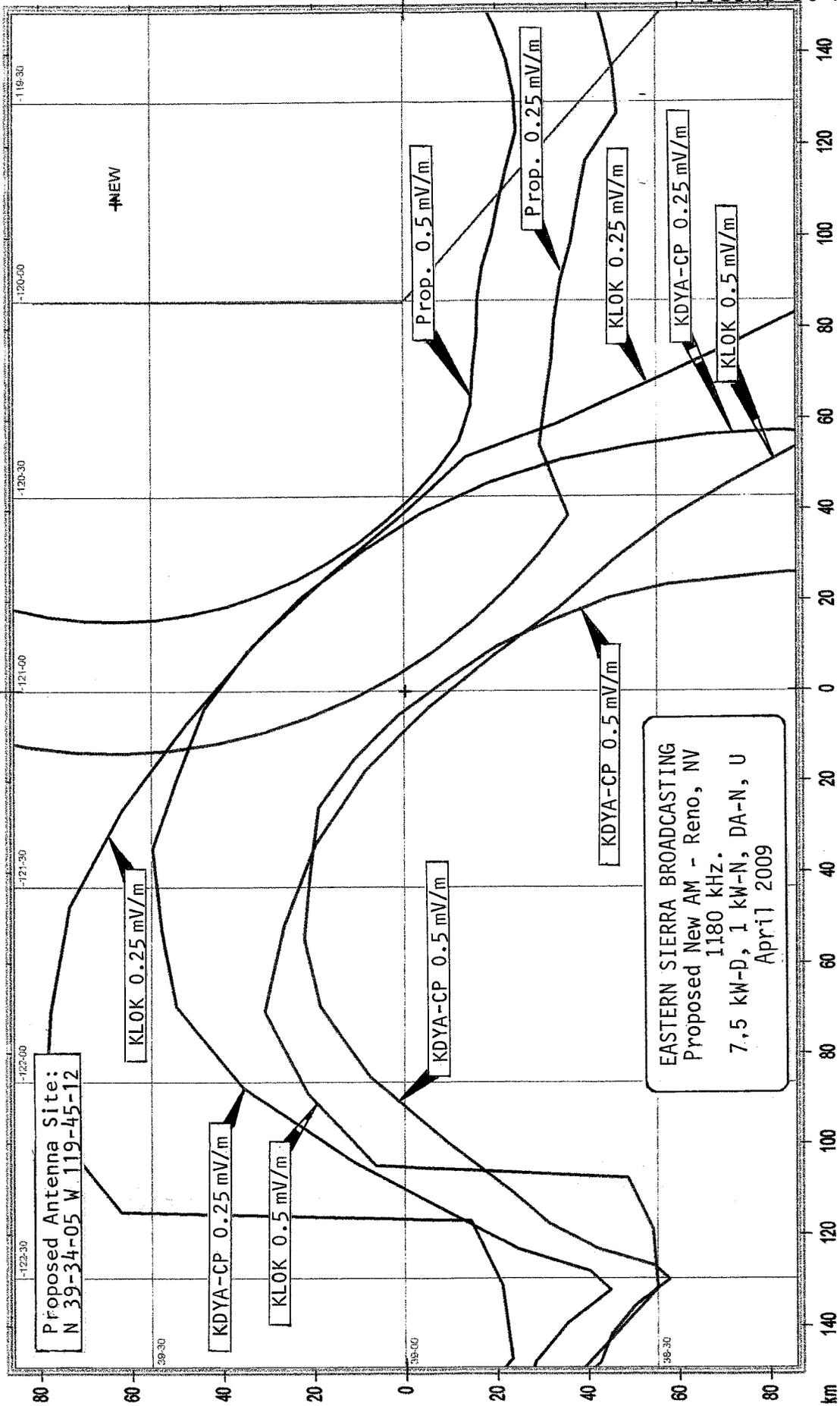
1190 kHz: KDYA-Lic: 1 kW, ND-D

KDYA-CP: 3.5 kW, DA-D

BP-20060327ADY

FIGURE 8B AMENDED

RENO, NV 1180 kHz - DETAILED FIRST-ADIACENT CHANNEL ALLOCATION MAP



Proposed amended facilities at Reno, NV would neither contribute, nor receive, prohibited daytime interference to or from KLOK or KDYA (licensed or CP).

BP-20060327ADY

RENO, NV 1180 kHz - FACILITY DATA.TXT

Callsign : NEW
 Coordinates : 39-34-05.0 N, 119-45-12.0 W
 Comments :
 Frequency (KHz): 1180
 Power (w): 7500.000
 Pattern : AD
 Efficiency : 811.615 mV/M
 Desc : ND-D
 City/State : RENO, NV
 ARN :
 Licensee : EASTERN SIERRA BROADCASTING

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	75.6	0.0

Field		Brng		mV/m		Brng		mV/m	
0	811.615	75	811.615	150	811.615	225	811.615	300	811.615
5	811.615	80	811.615	155	811.615	230	811.615	305	811.615
10	811.615	85	811.615	160	811.615	235	811.615	310	811.615
15	811.615	90	811.615	165	811.615	240	811.615	315	811.615
20	811.615	95	811.615	170	811.615	245	811.615	320	811.615
25	811.615	100	811.615	175	811.615	250	811.615	325	811.615
30	811.615	105	811.615	180	811.615	255	811.615	330	811.615
35	811.615	110	811.615	185	811.615	260	811.615	335	811.615
40	811.615	115	811.615	190	811.615	265	811.615	340	811.615
45	811.615	120	811.615	195	811.615	270	811.615	345	811.615
50	811.615	125	811.615	200	811.615	275	811.615	350	811.615
55	811.615	130	811.615	205	811.615	280	811.615	355	811.615
60	811.615	135	811.615	210	811.615	285	811.615		
65	811.615	140	811.615	215	811.615	290	811.615		
70	811.615	145	811.615	220	811.615	295	811.615		

0.0 ohm K : 0.000 1.0 ohm K : 0.000
 RMSS : 0.000 RMSt : 0.000
 RSS : 0.000

0

RENO, NV 1180 KHZ - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 39-34-05.0 N
 Lon : 119-45-12.0 W
 Radius : 500

0 deg:	245.37,	8.0	500.16,	4.0									
5 deg:	256.57,	8.0	500.34,	4.0									
10 deg:	259.65,	8.0	499.99,	4.0									
15 deg:	262.95,	8.0	499.81,	4.0									
20 deg:	35.44,	8.0	36.31,	4.0	39.41,	8.0	41.15,	4.0					
	41.39,	8.0	92.48,	4.0	92.72,	8.0	94.46,	4.0	94.71,	8.0			
	95.57,	4.0	268.71,	8.0	499.96,	4.0							
25 deg:	25.49,	8.0	126.87,	4.0	128.01,	8.0	128.85,	4.0					
	277.70,	8.0	500.00,	4.0									
30 deg:	18.29,	8.0	19.09,	4.0	20.25,	8.0	158.75,	4.0					
	286.96,	8.0	500.22,	4.0									
35 deg:	17.91,	8.0	176.86,	4.0	298.45,	8.0	499.98,	4.0					
40 deg:	15.72,	8.0	189.45,	4.0	310.51,	8.0	499.97,	4.0					
45 deg:	15.52,	8.0	191.70,	4.0	313.50,	8.0	499.98,	4.0					
50 deg:	14.28,	8.0	294.39,	4.0	295.48,	8.0	296.06,	4.0					
	297.73,	8.0	298.85,	4.0	299.39,	8.0	300.51,	4.0	311.63,	8.0			
	484.96,	4.0	499.83,	8.0									
55 deg:	13.17,	8.0	472.63,	4.0	499.85,	8.0							
60 deg:	13.31,	8.0	472.35,	4.0	500.03,	8.0							
65 deg:	12.90,	8.0	474.24,	4.0	499.66,	8.0							
70 deg:	12.54,	8.0	481.27,	4.0	500.29,	8.0							
75 deg:	12.24,	8.0	494.61,	4.0	500.32,	8.0							
80 deg:	12.54,	8.0	500.07,	4.0									
85 deg:	12.45,	8.0	500.01,	4.0									
90 deg:	12.43,	8.0	473.71,	4.0	500.20,	15.0							
95 deg:	13.90,	8.0	471.44,	4.0	499.88,	15.0							
100 deg:	14.00,	8.0	479.52,	4.0	500.30,	15.0							
105 deg:	14.39,	8.0	493.13,	4.0	499.93,	15.0							
110 deg:	14.66,	8.0	500.15,	4.0									
115 deg:	16.02,	8.0	497.93,	4.0	500.31,	15.0							
120 deg:	17.49,	8.0	75.13,	4.0	79.16,	8.0	488.60,	4.0					
	500.17,	15.0											
125 deg:	20.17,	8.0	65.52,	4.0	85.42,	8.0	473.46,	4.0					
	479.82,	8.0	499.49,	15.0									
130 deg:	24.68,	8.0	26.98,	4.0	27.52,	8.0	34.34,	4.0					
	34.88,	8.0	47.38,	4.0	47.93,	8.0	48.53,	4.0	92.26,	8.0			
	447.26,	4.0	499.50,	8.0									
135 deg:	95.31,	8.0	428.09,	4.0	500.21,	8.0							
140 deg:	97.93,	8.0	454.26,	4.0	500.22,	8.0							
145 deg:	98.03,	8.0	496.16,	4.0	499.72,	8.0							
150 deg:	96.19,	8.0	489.01,	4.0	499.67,	8.0							
155 deg:	93.06,	8.0	94.21,	4.0	95.05,	8.0	489.19,	4.0					
	500.03,	8.0											
160 deg:	89.79,	8.0	235.33,	4.0	238.44,	2.0	239.31,	4.0					
	410.97,	2.0	496.24,	4.0	500.24,	8.0							
165 deg:	86.34,	8.0	170.73,	4.0	407.99,	2.0	499.76,	4.0					
170 deg:	81.95,	8.0	118.67,	4.0	120.62,	2.0	121.53,	4.0					
	347.03,	2.0	347.15,	15.0	348.06,	2.0	369.57,	15.0	377.13,	2.0			
	500.19,	8.0											
175 deg:	78.27,	8.0	248.45,	2.0	327.48,	8.0	479.04,	15.0					
	500.40,	8.0											
180 deg:	73.35,	8.0	215.10,	2.0	280.88,	8.0	297.56,	15.0					
	490.27,	8.0	499.54,	4.0									
185 deg:	70.84,	8.0	192.63,	2.0	255.91,	8.0	290.31,	15.0					
	492.04,	8.0	500.41,	4.0									
190 deg:	67.91,	8.0	177.94,	2.0	234.34,	8.0	288.80,	15.0					
	496.43,	8.0	500.21,	5000.0									
195 deg:	69.15,	8.0	164.12,	2.0	221.61,	8.0	294.20,	15.0					
	465.43,	8.0	499.80,	5000.0									
200 deg:	74.18,	8.0	146.78,	2.0	210.85,	8.0	298.16,	15.0					
	440.47,	8.0	500.04,	5000.0									
205 deg:	78.63,	8.0	130.92,	2.0	200.02,	8.0	287.45,	15.0					
	357.29,	8.0	414.09,	15.0	500.09,	5000.0							
210 deg:	86.51,	8.0	115.76,	2.0	186.95,	8.0	285.40,	15.0					
	343.59,	8.0	369.15,	15.0	376.27,	5000.0	391.22,	15.0	499.74,	5000.0			
215 deg:	177.00,	8.0	301.15,	15.0	351.00,	8.0	499.80,	5000.0					
220 deg:	165.20,	8.0	216.31,	15.0	222.21,	30.0	301.80,	15.0					
	306.53,	30.0	351.99,	8.0	499.85,	5000.0							
225 deg:	156.35,	8.0	201.35,	15.0	239.57,	30.0	298.02,	15.0					
	301.05,	30.0	312.65,	5000.0	334.71,	8.0	500.31,	5000.0					
230 deg:	150.50,	8.0	189.39,	15.0	259.86,	30.0	290.88,	15.0					
	294.91,	30.0	302.37,	5000.0	317.35,	8.0	499.61,	5000.0					
235 deg:	146.99,	8.0	183.50,	15.0	244.65,	30.0	271.58,	8.0					
	293.92,	5000.0	314.59,	30.0	315.73,	5000.0	318.04,	30.0	499.61,	5000.0			
240 deg:	144.56,	8.0	178.99,	15.0	234.74,	30.0	281.87,	8.0					
	326.27,	30.0	499.68,	5000.0									
245 deg:	144.32,	8.0	176.32,	15.0	230.38,	30.0	278.78,	8.0					
	318.25,	30.0	500.44,	5000.0									
250 deg:	141.14,	8.0	177.35,	15.0	228.40,	30.0	279.90,	8.0					
	323.75,	30.0	499.61,	5000.0									
255 deg:	140.75,	8.0	179.71,	15.0	229.18,	30.0	287.12,	8.0					
	335.65,	30.0	500.07,	5000.0									
260 deg:	140.94,	8.0	181.06,	15.0	225.81,	30.0	301.32,	8.0					
	350.12,	30.0	499.73,	5000.0									
265 deg:	141.95,	8.0	182.20,	15.0	223.98,	30.0	296.25,	8.0					
	348.31,	4.0	500.02,	5000.0									
270 deg:	144.71,	8.0	184.01,	15.0	221.17,	30.0	251.91,	8.0					
	346.33,	4.0	499.63,	5000.0									
275 deg:	178.63,	8.0	185.75,	15.0	220.78,	30.0	245.73,	8.0					
	352.73,	4.0	500.15,	5000.0									
280 deg:	245.71,	8.0	376.79,	4.0	500.21,	5000.0							
285 deg:	252.60,	8.0	410.66,	4.0	499.76,	5000.0							
290 deg:	265.72,	8.0	406.12,	4.0	499.76,	5000.0							
295 deg:	135.13,	8.0	183.80,	4.0	260.71,	8.0	406.13,	4.0					

RENO, NV 1180 kHz - CONDUCTIVITY TABULATION.TXT

300 deg:	499.79, 5000.0							
	126.66, 8.0	189.70,	4.0	249.82,	8.0	417.82,	4.0	
	500.15, 5000.0							
305 deg:	118.27, 8.0	194.77,	4.0	197.56,	8.0	198.14,	4.0	
	199.83, 8.0	200.41,	4.0	200.93,	8.0	454.47,	4.0	499.97, 5000.0
310 deg:	118.75, 8.0	499.94,	4.0					
315 deg:	121.24, 8.0	499.58,	4.0					
320 deg:	123.65, 8.0	500.06,	4.0					
325 deg:	125.87, 8.0	500.06,	4.0					
330 deg:	132.89, 8.0	272.79,	4.0	335.89,	8.0	500.29,	4.0	
335 deg:	159.74, 8.0	283.97,	4.0	377.78,	8.0	500.06,	4.0	
340 deg:	173.53, 8.0	311.14,	4.0	351.75,	8.0	500.01,	4.0	
345 deg:	179.37, 8.0	499.85,	4.0					
350 deg:	189.08, 8.0	500.01,	4.0					
355 deg:	215.67, 8.0	500.35,	4.0					

KERN - FACILITY DATA.TXT

Callsign : KERN
 Coordinates : 35-34-17.0 N, 119-19-26.0 W
 Comments :
 Frequency (KHz): 1180
 Power (w): 50000.000
 Pattern : LD
 Efficiency : 2266.100 mV/M
 Desc : DA2
 City/State : WASCO-GREENACRES, CA
 ARN :
 Licensee : AGM CALIFORNIA

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	86.4	0.0
2	0.650	129.5	150.0	30.0	86.4	0.0

Field Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	2108.112	75	1607.387	150	2858.687	225	3168.859	300	1496.448
5	2225.670	80	1395.968	155	2979.867	230	3181.097	305	1211.909
10	2319.342	85	1171.790	160	3070.192	235	3191.497	310	949.896
15	2390.364	90	950.772	165	3132.782	240	3196.304	315	752.244
20	2440.000	95	766.734	170	3171.621	245	3191.223	320	682.231
25	2469.313	100	682.231	175	3191.223	250	3171.621	325	766.734
30	2479.002	105	752.244	180	3196.304	255	3132.782	330	950.772
35	2469.313	110	949.896	185	3191.497	260	3070.192	335	1171.790
40	2440.000	115	1211.909	190	3181.097	265	2979.867	340	1395.968
45	2390.364	120	1496.448	195	3168.859	270	2858.687	345	1607.387
50	2319.342	125	1780.662	200	3157.846	275	2704.723	350	1798.468
55	2225.670	130	2050.952	205	3150.316	280	2517.548	355	1965.765
60	2108.112	135	2298.499	210	3147.651	285	2298.499		
65	1965.765	140	2517.548	215	3150.316	290	2050.952		
70	1798.468	145	2704.723	220	3157.846	295	1780.662		
0.0 ohm K : 1873.242 1.0 ohm K : 1844.422									
RMSS : 2380.563 RMSt : 2266.100									
RSS : 2199.816									

0

KERN - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 35-34-17.0 N
 Lon : 119-19-26.0 W
 Radius : 500

0 deg:	127.33, 15.0	174.58, 8.0	290.40, 2.0	360.81, 4.0		
5 deg:	413.62, 8.0	499.78, 4.0				
10 deg:	118.52, 15.0	255.29, 2.0	499.98, 4.0			
15 deg:	108.56, 15.0	230.12, 2.0	500.38, 4.0			
20 deg:	30.25, 15.0	64.60, 8.0	64.79, 15.0	65.69, 8.0		
25 deg:	67.67, 15.0	68.57, 8.0	99.33, 15.0	213.49, 2.0	500.23, 4.0	
30 deg:	25.20, 15.0	78.36, 8.0	200.79, 2.0	500.19, 4.0		
35 deg:	20.93, 15.0	76.10, 8.0	190.04, 2.0	500.23, 4.0		
40 deg:	18.83, 15.0	74.43, 8.0	183.01, 2.0	500.04, 4.0		
45 deg:	16.51, 15.0	72.97, 8.0	174.27, 2.0	499.62, 4.0		
50 deg:	15.05, 15.0	70.87, 8.0	167.21, 2.0	499.78, 4.0		
55 deg:	14.88, 15.0	67.11, 8.0	161.68, 2.0	500.01, 4.0		
60 deg:	13.62, 15.0	64.40, 8.0	74.31, 4.0	153.43, 2.0		
65 deg:	500.28, 4.0					
70 deg:	12.51, 15.0	61.09, 8.0	89.70, 4.0	147.51, 2.0		
75 deg:	500.03, 4.0					
80 deg:	12.03, 15.0	58.78, 8.0	114.90, 4.0	115.55, 2.0		
85 deg:	116.00, 4.0	139.71, 2.0	485.67, 4.0	486.09, 15.0	486.74, 4.0	
90 deg:	500.14, 15.0					
95 deg:	11.60, 15.0	58.69, 8.0	271.72, 4.0	390.23, 8.0		
100 deg:	500.30, 15.0					
105 deg:	11.23, 15.0	57.63, 8.0	271.45, 4.0	376.35, 8.0		
110 deg:	499.68, 15.0					
115 deg:	10.69, 15.0	56.70, 8.0	268.48, 4.0	378.91, 8.0		
120 deg:	500.14, 15.0					
125 deg:	10.69, 15.0	56.47, 8.0	261.04, 4.0	379.87, 8.0		
130 deg:	499.73, 15.0					
135 deg:	12.03, 15.0	57.38, 8.0	200.01, 4.0	380.75, 8.0		
140 deg:	500.26, 15.0					
145 deg:	11.96, 15.0	58.68, 8.0	167.97, 4.0	388.27, 8.0		
150 deg:	500.09, 15.0					
155 deg:	12.79, 15.0	59.67, 8.0	146.17, 4.0	404.93, 8.0		
160 deg:	499.80, 15.0					
165 deg:	12.93, 15.0	60.43, 8.0	132.58, 4.0	422.23, 8.0		
170 deg:	500.36, 15.0					
175 deg:	13.14, 15.0	61.67, 8.0	122.93, 4.0	441.99, 8.0		
180 deg:	499.79, 15.0					
185 deg:	14.42, 15.0	63.39, 8.0	115.21, 4.0	459.59, 8.0		
190 deg:	499.68, 15.0					
195 deg:	14.78, 15.0	64.16, 8.0	110.10, 4.0	406.16, 8.0		
200 deg:	499.62, 15.0					
205 deg:	16.29, 15.0	64.31, 8.0	106.44, 4.0	268.67, 8.0		
210 deg:	269.98, 4.0	270.46, 8.0	299.10, 4.0	371.98, 2.0	372.47, 8.0	
215 deg:	373.78, 2.0	376.07, 8.0	500.00, 15.0			
220 deg:	18.42, 15.0	66.02, 8.0	104.76, 4.0	222.07, 8.0		
225 deg:	301.92, 4.0	361.22, 2.0	500.41, 15.0			
230 deg:	21.31, 15.0	67.01, 8.0	103.98, 4.0	186.36, 8.0		
235 deg:	383.47, 4.0	384.09, 15.0	385.86, 4.0	386.48, 15.0	387.05, 4.0	
240 deg:	488.95, 15.0	500.29, 20.0				
245 deg:	23.17, 15.0	70.29, 8.0	103.96, 4.0	148.96, 8.0		
250 deg:	149.49, 4.0	150.16, 8.0	238.00, 4.0	238.53, 8.0	239.20, 4.0	
255 deg:	291.50, 8.0	292.17, 4.0	293.38, 8.0	456.82, 4.0	500.12, 20.0	
260 deg:	22.81, 15.0	75.44, 8.0	111.87, 4.0	112.59, 8.0		
265 deg:	113.07, 4.0	113.78, 8.0	114.27, 4.0	114.98, 8.0	208.65, 4.0	
270 deg:	383.52, 8.0	429.75, 4.0	500.07, 20.0			
275 deg:	24.53, 15.0	76.38, 8.0	153.65, 4.0	154.08, 8.0		
280 deg:	154.85, 4.0	159.63, 8.0	184.23, 4.0	235.89, 8.0	392.38, 15.0	
285 deg:	395.13, 8.0	396.76, 15.0	397.54, 8.0	397.97, 15.0	410.68, 8.0	
290 deg:	499.76, 5.0					
295 deg:	26.45, 15.0	78.65, 8.0	145.58, 4.0	190.38, 8.0		
300 deg:	241.21, 15.0	497.79, 5000.0	498.61, 5.0	499.80, 5000.0	499.80, 5.0	
305 deg:	29.05, 15.0	78.32, 8.0	140.49, 4.0	182.04, 8.0		
310 deg:	225.95, 15.0	499.87, 5000.0				
315 deg:	30.19, 15.0	76.30, 8.0	135.57, 4.0	180.86, 8.0		
320 deg:	499.83, 5000.0					
325 deg:	32.16, 15.0	73.39, 8.0	132.82, 4.0	177.86, 8.0		
330 deg:	305.29, 5000.0	316.63, 8.0	500.26, 5000.0			
335 deg:	32.57, 15.0	71.03, 8.0	131.28, 4.0	168.84, 8.0		
340 deg:	499.77, 5000.0					
345 deg:	33.08, 15.0	68.42, 8.0	129.80, 4.0	159.54, 8.0		
350 deg:	499.86, 5000.0					
355 deg:	32.95, 15.0	66.31, 8.0	131.16, 4.0	142.28, 8.0		
360 deg:	499.91, 5000.0					
365 deg:	33.10, 15.0	65.60, 8.0	131.66, 4.0	133.51, 8.0		
370 deg:	257.20, 5000.0	259.05, 8.0	499.88, 5000.0			
375 deg:	33.39, 15.0	63.51, 8.0	130.27, 4.0	178.27, 5000.0		
380 deg:	179.18, 8.0	499.68, 5000.0				
385 deg:	34.20, 15.0	61.92, 8.0	133.77, 4.0	181.69, 5000.0		
390 deg:	184.57, 8.0	500.31, 5000.0				
395 deg:	31.13, 15.0	60.62, 8.0	127.63, 4.0	136.51, 8.0		
400 deg:	187.55, 5000.0	196.44, 8.0	499.90, 5000.0			
405 deg:	31.13, 15.0	60.92, 8.0	121.91, 4.0	139.41, 8.0		
410 deg:	193.31, 5000.0	195.32, 8.0	499.95, 5000.0			
415 deg:	29.72, 15.0	61.36, 8.0	117.14, 4.0	141.32, 8.0		
420 deg:	499.90, 5000.0					
425 deg:	30.18, 15.0	60.22, 8.0	112.55, 4.0	149.41, 8.0		
430 deg:	499.87, 5000.0					
435 deg:	28.92, 15.0	60.01, 8.0	108.41, 4.0	160.71, 8.0		
440 deg:	500.20, 5000.0					
445 deg:	28.61, 15.0	61.03, 8.0	106.49, 4.0	160.93, 8.0		
450 deg:	499.72, 5000.0					
455 deg:	27.91, 15.0	62.48, 8.0	105.32, 4.0	152.36, 8.0		
460 deg:	500.44, 5000.0					
465 deg:	26.80, 15.0	64.94, 8.0	101.99, 4.0	143.81, 8.0		

KERN - CONDUCTIVITY TABULATION.TXT

240 deg:	144.35, 5000.0	144.97, 8.0	499.96, 5000.0				
	25.97, 15.0	68.50, 8.0	95.30, 4.0	141.05,	8.0		
	500.17, 5000.0						
245 deg:	25.81, 15.0	132.46, 8.0	499.80, 5000.0				
250 deg:	25.80, 15.0	130.82, 8.0	499.87, 5000.0				
255 deg:	25.94, 15.0	142.84, 8.0	499.99, 5000.0				
260 deg:	25.33, 15.0	140.55, 8.0	499.82, 5000.0				
265 deg:	26.59, 15.0	146.37, 8.0	500.00, 5000.0				
270 deg:	27.23, 15.0	162.14, 8.0	500.29, 5000.0				
275 deg:	27.32, 15.0	178.32, 8.0	179.88, 5000.0	180.63,	8.0		
	499.71, 5000.0						
280 deg:	27.68, 15.0	193.07, 8.0	499.93, 5000.0				
285 deg:	28.08, 15.0	211.05, 8.0	500.33, 5000.0				
290 deg:	28.88, 15.0	214.77, 8.0	240.80, 15.0	241.80,	5000.0		
	243.21, 15.0	499.87, 5000.0					
295 deg:	29.92, 15.0	196.83, 8.0	258.77, 15.0	499.80,	5000.0		
300 deg:	31.18, 15.0	206.52, 8.0	256.59, 15.0	500.31,	5000.0		
305 deg:	33.14, 15.0	246.10, 8.0	246.61, 15.0	252.47,	8.0		
	258.23, 15.0	334.87, 8.0	499.58, 5000.0				
310 deg:	35.38, 15.0	365.68, 8.0	499.85, 5000.0				
315 deg:	38.51, 15.0	280.34, 8.0	368.12, 15.0	383.72,	30.0		
	393.48, 5000.0	500.15, 30.0					
320 deg:	40.72, 15.0	214.55, 8.0	364.22, 15.0	375.30,	30.0		
	499.91, 8.0						
325 deg:	44.65, 15.0	196.78, 8.0	335.42, 15.0	431.37,	30.0		
	499.74, 8.0						
330 deg:	48.53, 15.0	186.25, 8.0	360.18, 15.0	500.14,	30.0		
335 deg:	54.76, 15.0	175.55, 8.0	296.70, 15.0	300.16,	8.0		
	308.10, 15.0	308.42, 8.0	310.09, 15.0	310.40,	8.0	500.31,	15.0
340 deg:	64.45, 15.0	163.23, 8.0	227.64, 15.0	500.26,	8.0		
345 deg:	74.37, 15.0	154.94, 8.0	180.83, 15.0	288.47,	8.0		
	368.39, 2.0	500.28, 8.0					
350 deg:	93.61, 15.0	240.44, 8.0	380.81, 2.0	500.42,	8.0		
355 deg:	119.46, 15.0	201.33, 8.0	369.66, 2.0	499.94,	8.0		

JACKSONVILLE, OR 1180 kHz - FACILITY DATA.TXT

Callsign : NEW
 Coordinates : 42-17-44.0 N, 122-48-15.0 W
 Comments :
 Frequency (KHz): 1180
 Power (w): 50000.000
 Pattern : AD
 Efficiency : 2610.000 mV/M
 Desc : DA2
 City/State : JACKSONVILLE, OR
 ARN :
 Licensee : PAMPLIN BROADCASTING - OREGON, INC.

New Station Application; File No: BNP-20010723ABC
 Facility ID: 135960

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	172.8	0.0
2	0.340	122.2	80.4	75.1	81.5	0.0

Field Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	2175.782	75	2007.005	150	2172.110	225	3550.604	300	3398.818
5	2090.468	80	2004.269	155	2269.553	230	3585.241	305	3329.297
10	2019.957	85	1996.042	160	2376.884	235	3612.492	310	3250.206
15	1965.600	90	1982.979	165	2490.996	240	3632.969	315	3161.741
20	1927.692	95	1966.189	170	2608.723	245	3647.207	320	3064.466
25	1905.414	100	1947.250	175	2727.051	250	3655.618	325	2959.354
30	1896.959	105	1928.208	180	2843.256	255	3658.464	330	2847.825
35	1899.790	110	1911.546	185	2955.005	260	3655.837	335	2731.756
40	1910.968	115	1900.097	190	3060.404	265	3647.653	340	2613.464
45	1927.478	120	1896.874	195	3158.014	270	3633.655	345	2495.656
50	1946.475	125	1904.825	200	3246.845	275	3613.437	350	2381.339
55	1965.461	130	1926.510	205	3326.317	280	3586.468	355	2273.676
60	1982.370	135	1963.770	210	3396.220	285	3552.140		
65	1995.607	140	2017.467	215	3456.650	290	3509.811		
70	2004.042	145	2087.352	220	3507.943	295	3458.874		
0.0 ohm K : 2758.271 1.0 ohm K : 2734.770									
RMSS : 2741.549 RMSt : 2610.000									
RSS : 2888.518									

0

JACKSONVILLE, OR 1180 kHz - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 42-17-44.0 N
 Lon : 122-48-15.0 W
 Radius : 500

0 deg:	484.13,	4.0	499.88,	2.0				
5 deg:	500.07,	4.0						
10 deg:	499.73,	4.0						
15 deg:	499.77,	4.0						
20 deg:	340.83,	4.0	426.15,	8.0	499.81,	4.0		
25 deg:	262.25,	4.0	435.97,	8.0	500.28,	4.0		
30 deg:	260.84,	4.0	365.23,	8.0	426.14,	15.0	500.42,	4.0
35 deg:	375.61,	4.0	461.72,	15.0	462.12,	4.0	463.98,	15.0
	500.14,	4.0						
40 deg:	462.99,	4.0	499.90,	15.0				
45 deg:	500.24,	4.0						
50 deg:	499.77,	4.0						
55 deg:	499.68,	4.0						
60 deg:	499.86,	4.0						
65 deg:	83.16,	4.0	87.03,	8.0	87.65,	4.0	89.27,	8.0
	500.28,	4.0						
70 deg:	73.02,	4.0	105.67,	8.0	489.91,	4.0	499.70,	8.0
75 deg:	74.00,	4.0	121.09,	8.0	499.79,	4.0		
80 deg:	76.69,	4.0	139.73,	8.0	500.10,	4.0		
85 deg:	79.35,	4.0	150.06,	8.0	500.25,	4.0		
90 deg:	80.53,	4.0	149.76,	8.0	500.11,	4.0		
95 deg:	83.68,	4.0	144.43,	8.0	500.17,	4.0		
100 deg:	84.74,	4.0	141.51,	8.0	270.27,	4.0	497.76,	8.0
	500.01,	4.0						
105 deg:	84.44,	4.0	140.13,	8.0	252.63,	4.0	470.01,	8.0
	500.42,	4.0						
110 deg:	85.15,	4.0	140.71,	8.0	249.96,	4.0	441.00,	8.0
	500.19,	4.0						
115 deg:	88.40,	4.0	141.35,	8.0	249.74,	4.0	372.50,	8.0
	500.24,	4.0						
120 deg:	92.75,	4.0	135.59,	8.0	248.44,	4.0	361.15,	8.0
	499.84,	4.0						
125 deg:	241.21,	4.0	358.75,	8.0	499.60,	4.0		
130 deg:	246.40,	4.0	365.69,	8.0	500.06,	4.0		
135 deg:	271.09,	4.0	385.18,	8.0	500.05,	4.0		
140 deg:	275.59,	4.0	494.89,	8.0	499.59,	4.0		
145 deg:	285.64,	4.0	450.83,	8.0	488.65,	2.0	499.58,	4.0
150 deg:	282.55,	4.0	435.41,	8.0	499.59,	2.0		
155 deg:	206.26,	4.0	206.55,	8.0	208.23,	4.0	226.62,	8.0
	276.44,	4.0	500.04,	8.0				
160 deg:	191.27,	4.0	315.02,	8.0	500.32,	15.0		
165 deg:	187.24,	4.0	290.66,	8.0	295.51,	30.0	380.54,	15.0
	381.62,	30.0	382.51,	15.0	490.41,	30.0	499.93,	15.0
170 deg:	190.46,	4.0	279.72,	8.0	479.83,	30.0	500.42,	15.0
175 deg:	203.18,	4.0	460.72,	8.0	478.39,	5000.0	499.74,	30.0
180 deg:	319.15,	4.0	400.68,	8.0	482.21,	30.0	499.82,	5000.0
185 deg:	335.18,	4.0	364.04,	8.0	424.41,	30.0	499.74,	5000.0
190 deg:	352.09,	4.0	395.20,	30.0	500.42,	5000.0		
195 deg:	339.45,	4.0	499.93,	5000.0				
200 deg:	283.74,	4.0	500.32,	5000.0				
205 deg:	267.38,	4.0	500.04,	5000.0				
210 deg:	263.16,	4.0	499.59,	5000.0				
215 deg:	226.78,	4.0	227.55,	5000.0	229.87,	4.0	230.64,	5000.0
	231.03,	4.0	499.58,	5000.0				
220 deg:	178.54,	4.0	499.59,	5000.0				
225 deg:	151.74,	4.0	500.05,	5000.0				
230 deg:	140.28,	4.0	500.06,	5000.0				
235 deg:	133.82,	4.0	499.60,	5000.0				
240 deg:	130.60,	4.0	499.84,	5000.0				
245 deg:	133.92,	4.0	500.24,	5000.0				
250 deg:	125.83,	4.0	500.19,	5000.0				
255 deg:	122.30,	4.0	500.42,	5000.0				
260 deg:	128.16,	4.0	500.01,	5000.0				
265 deg:	131.26,	4.0	500.17,	5000.0				
270 deg:	134.00,	4.0	500.11,	5000.0				
275 deg:	135.67,	4.0	500.25,	5000.0				
280 deg:	135.53,	4.0	500.10,	5000.0				
285 deg:	137.21,	4.0	499.79,	5000.0				
290 deg:	150.12,	4.0	499.70,	5000.0				
295 deg:	156.13,	4.0	500.28,	5000.0				
300 deg:	157.03,	4.0	499.86,	5000.0				
305 deg:	163.04,	4.0	499.68,	5000.0				
310 deg:	167.46,	4.0	499.77,	5000.0				
315 deg:	172.22,	4.0	500.24,	5000.0				
320 deg:	183.38,	4.0	499.90,	5000.0				
325 deg:	191.45,	4.0	195.27,	5000.0	197.56,	4.0	500.14,	5000.0
330 deg:	218.91,	4.0	500.42,	5000.0				
335 deg:	246.86,	4.0	500.28,	5000.0				
340 deg:	292.34,	4.0	499.81,	5000.0				
345 deg:	344.49,	4.0	348.41,	5000.0	355.18,	4.0	499.77,	5000.0
350 deg:	443.09,	4.0	449.70,	5000.0	465.77,	4.0	466.68,	5000.0
	495.06,	4.0	499.73,	5000.0				
355 deg:	429.37,	4.0	432.14,	5000.0	483.35,	4.0	500.07,	2.0

KLOK - FACILITY DATA.TXT

Callsign : KLOK
 Coordinates : 37-18-41.0 N, 121-48-58.0 W
 Comments :
 Frequency (KHz): 1170
 Power (w): 50000.000
 Pattern : LD
 Augmented
 Efficiency : 2298.140 mV/M
 Desc : DA2
 City/State : SAN JOSE, CA
 ARN :
 Licensee : UNIVISION RADIO LICENSE CORPORATION

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	94.0	0.0
2	1.000	155.0	110.0	70.0	94.0	0.0
3	1.300	215.0	220.0	70.0	94.0	0.0

Brng	Span	mV/M
70.0	10.0	1496.69
150.0	20.0	1448.41
160.0	10.0	1255.29
290.0	40.0	3379.62
325.0	30.0	1786.37
340.0	10.0	1255.29
345.0	10.0	1303.57

Field Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	1741.841	75	1479.656	150	1448.410	225	3511.541	300	3094.132
5	1886.629	80	1513.217	155	1270.850	230	3523.072	305	2883.812
10	1988.185	85	1567.029	160	1255.290	235	3524.880	310	2636.642
15	2043.390	90	1637.778	165	1260.529	240	3522.211	315	2365.080
20	2054.698	95	1720.661	170	1466.001	245	3518.992	320	2079.759
25	2028.219	100	1809.362	175	1745.945	250	3517.646	325	1786.370
30	1972.264	105	1896.169	180	2053.851	255	3518.992	330	1502.083
35	1896.169	110	1972.264	185	2357.521	260	3522.211	335	1274.610
40	1809.362	115	2028.219	190	2636.642	265	3524.880	340	1255.290
45	1720.661	120	2054.698	195	2879.322	270	3523.072	345	1303.570
50	1637.778	125	2043.390	200	3079.822	275	3515.224	350	1381.459
55	1567.029	130	1988.185	205	3237.049	280	3496.669	355	1565.334
60	1513.217	135	1886.629	210	3353.377	285	3455.496		
65	1479.656	140	1741.841	215	3433.603	290	3379.620		
70	1496.690	145	1595.306	220	3484.013	295	3260.262		

0.0 ohm K : 1106.003 1.0 ohm K : 1094.449
 RMSS : 2414.228 RMSt : 2298.140
 RSS : 2102.369

0

KLOK - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 37-18-41.0 N
 Lon : 121-48-58.0 W
 Radius : 500

0 deg:	7.07, 8.0	81.19, 15.0	214.61, 30.0	264.64, 15.0		
	368.41, 8.0	499.97, 4.0				
5 deg:	7.11, 8.0	81.52, 15.0	181.96, 30.0	259.19, 15.0		
	307.56, 8.0	491.77, 4.0	500.14, 8.0			
10 deg:	7.21, 8.0	81.46, 15.0	153.99, 30.0	226.49, 15.0		
	312.12, 8.0	312.25, 4.0	313.16, 8.0	499.79, 4.0		
15 deg:	7.39, 8.0	82.13, 15.0	133.14, 30.0	193.64, 15.0		
	349.32, 8.0	408.11, 4.0	409.89, 8.0	412.95, 4.0	427.27, 8.0	
	499.63, 4.0					
20 deg:	6.51, 8.0	84.32, 15.0	114.18, 30.0	174.48, 15.0		
	499.54, 8.0					
25 deg:	6.79, 8.0	87.69, 15.0	97.94, 30.0	160.52, 15.0		
	499.82, 8.0					
30 deg:	7.14, 8.0	145.74, 15.0	499.61, 8.0			
35 deg:	6.36, 8.0	134.94, 15.0	325.71, 8.0	489.90, 4.0		
	500.35, 8.0					
40 deg:	6.81, 8.0	129.33, 15.0	189.79, 8.0	242.12, 2.0		
	307.92, 8.0	500.05, 4.0				
45 deg:	7.30, 8.0	123.51, 15.0	178.80, 8.0	253.87, 2.0		
	312.70, 8.0	499.67, 4.0				
50 deg:	7.84, 8.0	119.97, 15.0	171.53, 8.0	249.19, 2.0		
	265.71, 4.0	323.71, 8.0	500.08, 4.0			
55 deg:	7.25, 8.0	120.25, 15.0	167.94, 8.0	243.05, 2.0		
	500.06, 4.0					
60 deg:	7.86, 8.0	120.83, 15.0	167.39, 8.0	239.85, 2.0		
	500.51, 4.0					
65 deg:	8.73, 8.0	123.61, 15.0	170.94, 8.0	239.18, 2.0		
	500.44, 4.0					
70 deg:	8.73, 8.0	127.00, 15.0	176.06, 8.0	243.11, 2.0		
	499.65, 4.0					
75 deg:	10.55, 8.0	133.76, 15.0	181.99, 8.0	249.74, 2.0		
	500.01, 4.0					
80 deg:	11.27, 8.0	141.04, 15.0	188.48, 8.0	258.34, 2.0		
	500.32, 4.0					
85 deg:	12.57, 8.0	22.11, 15.0	23.65, 8.0	149.89, 15.0		
	197.79, 8.0	270.01, 2.0	500.18, 4.0			
90 deg:	47.85, 8.0	158.40, 15.0	208.53, 8.0	288.19, 2.0		
	500.17, 4.0					
95 deg:	58.39, 8.0	173.39, 15.0	223.19, 8.0	311.76, 2.0		
	488.98, 4.0	500.26, 8.0				
100 deg:	64.39, 8.0	193.76, 15.0	234.60, 8.0	333.87, 2.0		
	481.78, 4.0	500.26, 8.0				
105 deg:	71.82, 8.0	125.65, 15.0	234.27, 8.0	352.43, 2.0		
	500.08, 4.0					
110 deg:	81.02, 8.0	85.83, 15.0	87.21, 8.0	88.23, 15.0		
	224.93, 8.0	261.55, 15.0	362.31, 2.0	469.38, 4.0	499.71, 8.0	
115 deg:	229.44, 8.0	272.19, 15.0	275.94, 8.0	276.36, 2.0		
	277.02, 8.0	278.78, 2.0	279.44, 8.0	325.79, 2.0	437.31, 4.0	
	500.12, 8.0					
120 deg:	236.47, 8.0	274.07, 15.0	318.15, 8.0	415.91, 4.0		
	499.71, 8.0					
125 deg:	245.75, 8.0	284.25, 15.0	348.00, 8.0	402.49, 4.0		
	499.50, 8.0					
130 deg:	258.48, 8.0	314.06, 15.0	315.24, 8.0	316.42, 15.0		
	362.72, 8.0	398.56, 4.0	473.35, 8.0	499.89, 4.0		
135 deg:	286.86, 8.0	287.53, 15.0	288.05, 8.0	315.83, 15.0		
	368.43, 8.0	444.42, 4.0	452.13, 8.0	482.49, 4.0	500.35, 8.0	
140 deg:	327.16, 8.0	414.94, 4.0	464.47, 8.0	467.60, 15.0		
	488.06, 5000.0	499.62, 15.0				
145 deg:	275.71, 8.0	392.52, 4.0	427.03, 8.0	500.11, 5000.0		
150 deg:	287.95, 8.0	324.78, 4.0	325.15, 8.0	331.12, 4.0		
	333.48, 8.0	334.29, 4.0	334.66, 8.0	335.47, 4.0	335.84, 8.0	
	336.65, 4.0	339.82, 8.0	340.63, 4.0	369.17, 8.0	500.22, 5000.0	
155 deg:	88.15, 8.0	89.30, 15.0	90.14, 8.0	115.85, 15.0		
	347.53, 8.0	492.65, 5000.0	493.50, 8.0	494.66, 5000.0	495.51, 8.0	
	499.52, 5000.0					
160 deg:	58.50, 8.0	122.47, 15.0	218.84, 8.0	317.06, 5000.0		
	324.81, 8.0	499.54, 5000.0				
165 deg:	52.09, 8.0	123.13, 15.0	187.16, 8.0	187.36, 5000.0		
	188.25, 8.0	500.02, 5000.0				
170 deg:	49.31, 8.0	126.33, 15.0	146.14, 8.0	500.47, 5000.0		
175 deg:	48.72, 8.0	127.75, 15.0	499.67, 5000.0			
180 deg:	49.44, 8.0	50.37, 15.0	68.90, 5000.0	117.08, 15.0		
	499.72, 5000.0					
185 deg:	44.97, 8.0	77.53, 5000.0	102.65, 15.0	499.68, 5000.0		
190 deg:	40.86, 8.0	500.36, 5000.0				
195 deg:	38.62, 8.0	500.04, 5000.0				
200 deg:	40.83, 8.0	499.57, 5000.0				
205 deg:	43.09, 8.0	499.57, 5000.0				
210 deg:	45.10, 8.0	500.27, 5000.0				
215 deg:	46.67, 8.0	500.16, 5000.0				
220 deg:	48.62, 8.0	499.68, 5000.0				
225 deg:	48.54, 8.0	499.90, 5000.0				
230 deg:	48.19, 8.0	499.96, 5000.0				
235 deg:	47.69, 8.0	499.58, 5000.0				
240 deg:	48.05, 8.0	499.79, 5000.0				
245 deg:	48.26, 8.0	49.59, 5000.0	49.99, 8.0	499.54, 5000.0		
250 deg:	51.93, 8.0	499.80, 5000.0				
255 deg:	53.60, 8.0	500.18, 5000.0				
260 deg:	54.72, 8.0	500.36, 5000.0				
265 deg:	54.09, 8.0	500.36, 5000.0				
270 deg:	53.11, 8.0	500.27, 5000.0				
275 deg:	53.27, 8.0	500.28, 5000.0				
280 deg:	55.28, 8.0	499.69, 5000.0				

KLOK - CONDUCTIVITY TABULATION.TXT

285 deg:	57.85, 8.0	500.10, 5000.0						
290 deg:	61.85, 8.0	62.55, 5000.0	65.63, 8.0	499.75, 5000.0				
295 deg:	69.10, 8.0	499.86, 5000.0						
300 deg:	70.33, 8.0	499.96, 5000.0						
305 deg:	42.52, 8.0	43.12, 5000.0	44.26, 8.0	44.86, 5000.0				
	45.99, 8.0	61.00, 5000.0	74.27, 8.0	129.50, 5000.0	130.10, 30.0			
	499.54, 5000.0							
310 deg:	25.20, 8.0	25.77, 30.0	26.92, 8.0	34.41, 30.0				
	35.00, 5000.0	35.57, 30.0	66.07, 5000.0	80.44, 8.0	99.96, 5000.0			
	100.55, 30.0	101.11, 5000.0	111.44, 30.0	112.03, 5000.0	112.59, 30.0			
	122.35, 5000.0	133.24, 30.0	500.16, 5000.0					
315 deg:	18.99, 8.0	19.52, 30.0	20.17, 8.0	41.56, 30.0				
	69.33, 5000.0	78.05, 8.0	78.57, 5000.0	80.92, 8.0	83.78, 5000.0			
	144.88, 30.0	499.74, 5000.0						
320 deg:	15.15, 8.0	49.19, 30.0	66.20, 5000.0	67.85, 30.0				
	68.56, 5000.0	70.92, 30.0	88.38, 5000.0	89.09, 30.0	89.56, 5000.0			
	256.02, 30.0	500.12, 5000.0						
325 deg:	13.08, 8.0	27.59, 30.0	28.01, 15.0	28.77, 30.0				
	29.19, 15.0	29.95, 30.0	67.61, 15.0	69.55, 30.0	69.97, 15.0			
	90.34, 30.0	102.88, 5000.0	255.65, 30.0	296.95, 4.0	500.41, 5000.0			
330 deg:	11.14, 8.0	17.79, 30.0	84.40, 15.0	90.67, 30.0				
	107.88, 5000.0	108.68, 30.0	136.02, 8.0	136.82, 30.0	137.99, 8.0			
	138.79, 30.0	139.15, 8.0	202.41, 30.0	202.78, 8.0	203.58, 30.0			
	249.95, 8.0	427.76, 4.0	499.66, 5000.0					
335 deg:	9.67, 8.0	9.98, 30.0	10.82, 8.0	12.81, 30.0				
	90.56, 15.0	99.97, 8.0	102.79, 5000.0	103.10, 8.0	103.94, 5000.0			
	104.25, 8.0	105.09, 5000.0	249.75, 8.0	467.63, 4.0	499.86, 5000.0			
340 deg:	9.41, 8.0	11.41, 30.0	91.45, 15.0	251.52, 8.0				
	499.58, 4.0							
345 deg:	8.31, 8.0	9.21, 30.0	85.92, 15.0	88.99, 30.0				
	265.60, 8.0	499.66, 4.0						
350 deg:	9.05, 8.0	85.25, 15.0	136.16, 30.0	137.08, 8.0				
	253.84, 30.0	363.01, 8.0	499.68, 4.0					
355 deg:	8.04, 8.0	82.45, 15.0	282.40, 30.0	375.43, 8.0				
	500.15, 4.0							

KDYA - LIC - FACILITY DATA.TXT

Callsign : KDYA-LIC
 Coordinates : 38-07-02.0 N, 122-15-20.0 W
 Comments :
 Frequency (KHz): 1190
 Power (w): 1000.000
 Pattern : LD
 Efficiency : 312.210 mV/M
 Desc : NDD
 City/State : VALLEJO, CA
 ARN :
 Licensee : BAYBRIDGE COMMUNICATIONS, L.L.C.

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	99.3	0.0

Field Brng	mv/m	Brng	mv/m	Brng	mv/m	Brng	mv/m	Brng	mv/m
0	312.210	75	312.210	150	312.210	225	312.210	300	312.210
5	312.210	80	312.210	155	312.210	230	312.210	305	312.210
10	312.210	85	312.210	160	312.210	235	312.210	310	312.210
15	312.210	90	312.210	165	312.210	240	312.210	315	312.210
20	312.210	95	312.210	170	312.210	245	312.210	320	312.210
25	312.210	100	312.210	175	312.210	250	312.210	325	312.210
30	312.210	105	312.210	180	312.210	255	312.210	330	312.210
35	312.210	110	312.210	185	312.210	260	312.210	335	312.210
40	312.210	115	312.210	190	312.210	265	312.210	340	312.210
45	312.210	120	312.210	195	312.210	270	312.210	345	312.210
50	312.210	125	312.210	200	312.210	275	312.210	350	312.210
55	312.210	130	312.210	205	312.210	280	312.210	355	312.210
60	312.210	135	312.210	210	312.210	285	312.210		
65	312.210	140	312.210	215	312.210	290	312.210		
70	312.210	145	312.210	220	312.210	295	312.210		
0.0 ohm K	: 0.000			1.0 ohm K	: 0.000				
RMSS	: 0.000			RMSt	: 0.000				
RSS	: 0.000								

□

KDYA - LIC - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 38-07-02.0 N
 Lon : 122-15-20.0 W
 Radius : 500

0 deg:	87.96,	8.0	186.16,	30.0	284.37,	8.0	500.25,	4.0		
5 deg:	69.71,	8.0	192.48,	30.0	284.59,	8.0	416.69,	4.0		
	500.41,	8.0								
10 deg:	59.27,	8.0	169.40,	30.0	183.45,	15.0	278.56,	8.0		
	402.88,	4.0	499.06,	8.0	499.97,	4.0				
15 deg:	50.88,	8.0	139.19,	30.0	176.68,	15.0	225.63,	8.0		
	499.81,	4.0								
20 deg:	43.39,	8.0	122.42,	30.0	179.53,	15.0	226.05,	8.0		
	500.01,	4.0								
25 deg:	38.82,	8.0	114.70,	30.0	170.05,	15.0	248.00,	8.0		
	337.74,	4.0	338.58,	8.0	340.86,	4.0	359.22,	8.0	359.53,	4.0
	360.36,	8.0	500.11,	4.0						
30 deg:	34.23,	8.0	107.24,	30.0	154.40,	15.0	485.81,	8.0		
	500.04,	4.0								
35 deg:	30.74,	8.0	101.05,	30.0	143.93,	15.0	499.81,	8.0		
40 deg:	27.82,	8.0	95.98,	30.0	133.74,	15.0	499.77,	8.0		
45 deg:	26.27,	8.0	90.68,	30.0	127.92,	15.0	333.89,	8.0		
	440.97,	4.0	500.34,	8.0						
50 deg:	23.25,	8.0	87.85,	30.0	124.33,	15.0	293.31,	8.0		
	491.03,	4.0	491.59,	8.0	492.71,	4.0	493.26,	8.0	494.38,	4.0
	497.73,	8.0	498.85,	4.0	499.97,	8.0				
55 deg:	21.60,	8.0	84.55,	30.0	121.67,	15.0	278.80,	8.0		
	500.29,	4.0								
60 deg:	20.00,	8.0	83.57,	30.0	119.98,	15.0	281.14,	8.0		
	500.12,	4.0								
65 deg:	19.13,	8.0	83.19,	30.0	118.65,	15.0	175.65,	8.0		
	228.85,	2.0	303.97,	8.0	499.93,	4.0				
70 deg:	18.40,	8.0	81.06,	30.0	117.92,	15.0	170.62,	8.0		
	239.37,	2.0	246.12,	4.0	304.63,	8.0	500.03,	4.0		
75 deg:	17.14,	8.0	79.56,	30.0	117.06,	15.0	168.56,	8.0		
	240.99,	2.0	500.10,	4.0						
80 deg:	16.74,	8.0	78.75,	30.0	118.57,	15.0	170.12,	8.0		
	245.00,	2.0	499.72,	4.0						
85 deg:	16.62,	8.0	78.71,	30.0	121.04,	15.0	172.85,	8.0		
	250.89,	2.0	499.63,	4.0						
90 deg:	15.79,	8.0	79.94,	30.0	125.87,	15.0	180.56,	8.0		
	264.46,	2.0	499.73,	4.0						
95 deg:	15.83,	8.0	81.05,	30.0	130.89,	15.0	194.86,	8.0		
	281.00,	2.0	499.82,	4.0						
100 deg:	16.05,	8.0	55.42,	30.0	142.33,	15.0	215.38,	8.0		
	303.88,	2.0	499.92,	4.0						
105 deg:	16.24,	8.0	24.00,	30.0	27.06,	15.0	30.82,	30.0		
	159.06,	15.0	236.17,	8.0	337.73,	2.0	500.17,	4.0		
110 deg:	16.08,	8.0	20.83,	30.0	21.52,	15.0	23.89,	30.0		
	189.74,	15.0	266.36,	8.0	382.06,	2.0	382.41,	4.0	383.10,	2.0
	500.03,	4.0								
115 deg:	14.45,	8.0	15.10,	15.0	16.43,	8.0	222.61,	15.0		
	297.02,	8.0	418.89,	2.0	500.03,	4.0				
120 deg:	8.47,	8.0	9.72,	15.0	10.81,	8.0	11.44,	15.0		
	12.54,	8.0	260.01,	15.0	302.62,	8.0	306.75,	15.0	431.91,	2.0
	499.90,	4.0								
125 deg:	8.47,	8.0	211.89,	15.0	303.48,	8.0	349.99,	15.0		
	397.75,	2.0	499.98,	4.0						
130 deg:	8.46,	8.0	189.89,	15.0	318.77,	8.0	359.55,	15.0		
	417.97,	8.0	418.59,	4.0	420.33,	8.0	489.48,	4.0	500.07,	8.0
135 deg:	7.93,	8.0	130.18,	15.0	152.79,	8.0	153.45,	15.0		
	153.97,	8.0	154.63,	15.0	155.15,	8.0	167.46,	15.0	338.88,	8.0
	389.57,	15.0	451.62,	8.0	488.34,	4.0	499.62,	8.0		
140 deg:	8.15,	8.0	114.42,	15.0	375.80,	8.0	407.13,	15.0		
	456.46,	8.0	500.34,	4.0						
145 deg:	7.74,	8.0	107.32,	15.0	397.69,	8.0	398.10,	4.0		
	400.07,	8.0	497.46,	4.0	499.85,	8.0				
150 deg:	7.38,	8.0	102.61,	15.0	374.53,	8.0	471.58,	4.0		
	499.77,	5000.0								
155 deg:	7.38,	8.0	90.79,	15.0	91.09,	8.0	91.94,	15.0		
	202.03,	8.0	209.17,	15.0	445.68,	8.0	500.11,	5000.0		
160 deg:	7.94,	8.0	74.91,	15.0	82.88,	30.0	145.92,	8.0		
	219.62,	15.0	302.00,	8.0	302.25,	5000.0	304.00,	8.0	500.03,	5000.0
165 deg:	7.72,	8.0	60.36,	15.0	60.54,	30.0	61.44,	15.0		
	76.71,	30.0	139.08,	8.0	158.13,	5000.0	223.42,	15.0	240.50,	8.0
	240.69,	5000.0	241.59,	8.0	499.76,	5000.0				
170 deg:	8.49,	8.0	52.77,	15.0	66.83,	30.0	71.52,	5000.0		
	130.80,	8.0	167.42,	5000.0	206.90,	15.0	500.15,	5000.0		
175 deg:	8.41,	8.0	41.89,	15.0	46.57,	30.0	67.01,	5000.0		
	127.45,	8.0	500.33,	5000.0						
180 deg:	8.40,	8.0	34.34,	15.0	42.68,	30.0	63.06,	5000.0		
185 deg:	116.80,	8.0	500.37,	5000.0						
	9.38,	8.0	28.89,	15.0	40.03,	30.0	60.52,	5000.0		
	108.90,	8.0	500.31,	5000.0						
190 deg:	9.48,	8.0	20.81,	15.0	32.01,	30.0	35.79,	5000.0		
	37.74,	30.0	58.33,	5000.0	84.77,	8.0	500.11,	5000.0		
195 deg:	10.54,	8.0	14.49,	15.0	27.78,	30.0	40.36,	5000.0		
	72.88,	8.0	499.88,	5000.0						
200 deg:	10.97,	8.0	27.77,	30.0	38.59,	5000.0	68.22,	8.0		
	500.20,	5000.0								
205 deg:	8.43,	8.0	12.39,	5000.0	27.77,	30.0	38.86,	5000.0		
	52.25,	8.0	500.31,	5000.0						
210 deg:	7.62,	8.0	13.89,	5000.0	14.26,	30.0	15.06,	5000.0		
	26.80,	30.0	32.28,	5000.0	33.08,	30.0	40.53,	5000.0	40.89,	8.0
	41.70,	5000.0	45.20,	8.0	500.01,	5000.0				
215 deg:	6.83,	8.0	17.01,	5000.0	24.84,	30.0	30.73,	5000.0		
	33.85,	30.0	35.03,	5000.0	39.74,	30.0	500.12,	5000.0		
220 deg:	5.41,	8.0	21.89,	5000.0	23.07,	30.0	28.97,	5000.0		
	41.24,	30.0	500.19,	5000.0						

KDVA - LIC - CONDUCTIVITY TABULATION.TXT										
225 deg:	5.41,	8.0	27.91,	5000.0	41.84,	30.0	499.96,	5000.0		
230 deg:	4.82,	8.0	23.17,	5000.0	24.32,	30.0	24.88,	5000.0		
	25.48,	30.0	26.04,	5000.0	42.11,	30.0	499.88,	5000.0		
235 deg:	4.82,	8.0	23.75,	5000.0	43.29,	30.0	499.78,	5000.0		
240 deg:	4.33,	8.0	24.59,	5000.0	44.86,	30.0	45.96,	5000.0		
	48.96,	30.0	500.33,	5000.0						
245 deg:	4.33,	8.0	24.39,	5000.0	49.61,	30.0	499.81,	5000.0		
250 deg:	4.01,	8.0	22.66,	5000.0	50.84,	30.0	499.81,	5000.0		
255 deg:	4.01,	8.0	21.41,	5000.0	52.47,	30.0	499.94,	5000.0		
260 deg:	4.01,	8.0	21.00,	5000.0	61.09,	30.0	63.96,	5000.0		
	67.72,	30.0	499.68,	5000.0						
265 deg:	3.89,	8.0	20.02,	5000.0	63.93,	30.0	500.30,	5000.0		
270 deg:	3.89,	8.0	19.20,	5000.0	62.20,	30.0	500.21,	5000.0		
275 deg:	3.89,	8.0	17.10,	5000.0	62.42,	30.0	500.12,	5000.0		
280 deg:	3.98,	8.0	16.50,	5000.0	18.82,	30.0	20.97,	8.0		
	65.29,	30.0	500.20,	5000.0						
285 deg:	3.98,	8.0	16.20,	5000.0	22.07,	8.0	67.37,	30.0		
	499.87,	5000.0								
290 deg:	4.28,	8.0	15.12,	5000.0	24.28,	8.0	77.47,	30.0		
	499.80,	5000.0								
295 deg:	4.28,	8.0	14.82,	5000.0	26.02,	8.0	84.29,	30.0		
	499.71,	5000.0								
300 deg:	4.28,	8.0	13.52,	5000.0	28.58,	8.0	116.34,	30.0		
	499.91,	5000.0								
305 deg:	4.74,	8.0	5.88,	5000.0	6.47,	8.0	10.46,	5000.0		
	11.05,	8.0	12.77,	5000.0	32.26,	8.0	159.71,	30.0	500.10,	5000.0
310 deg:	7.60,	8.0	8.19,	5000.0	11.61,	8.0	12.76,	5000.0		
	37.38,	8.0	165.67,	30.0	500.34,	5000.0				
315 deg:	44.52,	8.0	166.08,	30.0	190.57,	4.0	500.16,	5000.0		
320 deg:	58.48,	8.0	149.28,	30.0	149.75,	8.0	150.45,	30.0		
	152.09,	8.0	152.79,	30.0	157.95,	8.0	204.26,	4.0	500.08,	5000.0
325 deg:	154.33,	8.0	321.45,	4.0	499.67,	5000.0				
330 deg:	152.32,	8.0	340.20,	4.0	499.92,	5000.0				
335 deg:	151.50,	8.0	375.81,	4.0	500.01,	5000.0				
340 deg:	153.88,	8.0	499.92,	4.0						
345 deg:	159.21,	8.0	499.93,	4.0						
350 deg:	175.99,	8.0	500.05,	4.0						
355 deg:	269.68,	8.0	500.39,	4.0						

KDYA - CP - FACILITY DATA.TXT

Callsign : KDYA-CP
 Coordinates : 38-08-03.0 N, 122-25-32.0 W
 Comments :
 Frequency (KHz): 1190
 Power (w): 3500.000
 Pattern : CD
 Efficiency : 568.500 mV/M
 Desc : DAD
 City/State : VALLEJO, CA
 ARN :
 Licensee : BAYBRIDGE COMMUNICATIONS, L.L.C.

KDYA Construction Permit: File No: BP-20060327ADY
 Facility ID: 54263

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	1.000	0.0	0.0	0.0	72.6	0.0
2	0.983	144.3	60.2	227.5	72.6	0.0
3	1.048	244.8	150.7	110.1	72.6	0.0
4	1.250	35.5	147.2	132.0	72.6	0.0

Field	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	219.333	75	1166.948	150	215.582	225	98.992	300	206.408	
5	345.921	80	1111.050	155	159.301	230	131.856	305	246.865	
10	482.810	85	1049.588	160	117.631	235	164.533	310	281.904	
15	622.285	90	984.896	165	104.167	240	191.317	315	308.224	
20	758.329	95	918.830	170	120.231	245	209.387	320	322.946	
25	885.640	100	852.719	175	148.024	250	217.396	325	323.553	
30	999.636	105	787.357	180	173.586	255	215.019	330	308.010	
35	1096.622	110	723.050	185	190.492	260	202.793	335	275.028	
40	1173.952	115	659.700	190	195.982	265	182.113	340	224.677	
45	1230.123	120	596.919	195	189.290	270	155.497	345	160.430	
50	1264.779	125	534.177	200	171.165	275	127.464	350	101.263	
55	1278.623	130	470.971	205	143.903	280	106.550	355	119.697	
60	1273.262	135	407.005	210	111.999	285	105.212			
65	1250.996	140	342.401	215	84.580	290	127.685			
70	1214.573	145	277.956	220	78.156	295	164.658			

0.0 ohm K : 437.684 1.0 ohm K : 411.638
 RMSS : 597.377 RMSt : 568.500
 RSS : 885.462

□

KDYA - CP - CONDUCTIVITY TABULATION.TXT

GROUND CONDUCTIVITY REPORT

Lat : 38-08-03.0 N
 Lon : 122-25-32.0 W
 Radius : 500

0 deg:	2.69, 5000.0	3.61, 30.0	274.15, 8.0	500.22, 4.0		
5 deg:	2.69, 5000.0	3.61, 30.0	104.11, 8.0	188.72, 30.0		
10 deg:	284.53, 8.0	480.85, 4.0	498.56, 8.0	500.41, 4.0		
15 deg:	2.80, 5000.0	3.70, 30.0	85.59, 8.0	191.93, 30.0		
20 deg:	282.35, 8.0	405.75, 4.0	499.98, 8.0			
25 deg:	2.80, 5000.0	3.70, 30.0	74.80, 8.0	169.90, 30.0		
30 deg:	183.35, 15.0	236.06, 8.0	499.84, 4.0			
35 deg:	2.80, 5000.0	3.91, 30.0	66.83, 8.0	146.08, 30.0		
40 deg:	179.59, 15.0	228.96, 8.0	499.81, 4.0			
45 deg:	2.80, 5000.0	3.08, 30.0	3.91, 5000.0	61.37, 8.0		
50 deg:	129.81, 30.0	184.30, 15.0	235.61, 8.0	500.19, 4.0		
55 deg:	5.06, 5000.0	55.84, 8.0	122.18, 30.0	173.97, 15.0		
60 deg:	264.13, 8.0	264.50, 4.0	265.29, 8.0	269.93, 4.0	270.72, 8.0	
65 deg:	273.04, 4.0	276.15, 8.0	277.31, 4.0	279.26, 8.0	279.62, 4.0	
70 deg:	284.69, 8.0	285.05, 4.0	285.84, 8.0	286.21, 4.0	290.11, 8.0	
75 deg:	290.47, 4.0	291.27, 8.0	318.74, 4.0	483.60, 8.0	500.13, 4.0	
80 deg:	5.42, 5000.0	5.85, 8.0	6.60, 5000.0	51.96, 8.0		
85 deg:	114.84, 30.0	161.20, 15.0	499.91, 8.0			
90 deg:	7.03, 5000.0	7.51, 8.0	8.21, 5000.0	47.27, 8.0		
95 deg:	111.39, 30.0	151.93, 15.0	499.88, 8.0			
100 deg:	8.68, 5000.0	44.36, 8.0	106.38, 30.0	142.42, 15.0		
105 deg:	388.21, 8.0	390.50, 4.0	393.82, 8.0	394.45, 4.0	396.12, 8.0	
110 deg:	397.26, 4.0	397.78, 8.0	400.07, 4.0	400.58, 8.0	402.87, 4.0	
115 deg:	403.39, 8.0	409.63, 4.0	410.15, 8.0	425.94, 4.0	499.94, 8.0	
120 deg:	8.57, 5000.0	41.77, 8.0	101.72, 30.0	137.62, 15.0		
125 deg:	316.04, 8.0	470.48, 4.0	500.10, 8.0			
130 deg:	8.02, 5000.0	40.10, 8.0	99.03, 30.0	135.59, 15.0		
135 deg:	293.70, 8.0	499.84, 4.0				
140 deg:	8.63, 5000.0	38.09, 8.0	97.08, 30.0	133.46, 15.0		
145 deg:	289.39, 8.0	500.26, 4.0				
150 deg:	8.84, 5000.0	37.01, 8.0	95.91, 30.0	132.76, 15.0		
155 deg:	209.21, 8.0	210.90, 2.0	211.56, 8.0	212.59, 2.0	305.48, 8.0	
160 deg:	500.08, 4.0					
165 deg:	9.51, 5000.0	34.93, 8.0	95.85, 30.0	131.02, 15.0		
170 deg:	184.67, 8.0	252.68, 2.0	320.63, 8.0	500.19, 4.0		
175 deg:	9.89, 5000.0	33.14, 8.0	94.12, 30.0	130.89, 15.0		
180 deg:	183.06, 8.0	254.53, 2.0	500.26, 4.0			
185 deg:	10.40, 5000.0	32.57, 8.0	93.11, 30.0	132.18, 15.0		
190 deg:	184.29, 8.0	257.69, 2.0	499.89, 4.0			
195 deg:	11.74, 5000.0	31.49, 8.0	93.57, 30.0	134.50, 15.0		
200 deg:	187.68, 8.0	264.19, 2.0	499.83, 4.0			
205 deg:	11.71, 5000.0	31.39, 8.0	94.79, 30.0	139.98, 15.0		
210 deg:	193.93, 8.0	277.08, 2.0	499.90, 4.0			
215 deg:	11.75, 5000.0	30.80, 8.0	96.03, 30.0	145.87, 15.0		
220 deg:	208.28, 8.0	295.87, 2.0	500.00, 4.0			
225 deg:	11.87, 5000.0	31.18, 8.0	60.89, 30.0	65.19, 15.0		
230 deg:	66.08, 30.0	158.91, 15.0	231.44, 8.0	321.39, 2.0	500.11, 4.0	
235 deg:	12.06, 5000.0	31.11, 8.0	31.81, 15.0	34.87, 30.0		
240 deg:	36.28, 15.0	37.93, 30.0	178.46, 15.0	254.89, 8.0	356.50, 2.0	
245 deg:	500.36, 4.0					
250 deg:	12.63, 5000.0	21.80, 8.0	211.17, 15.0	211.51, 8.0		
255 deg:	212.19, 15.0	286.47, 8.0	286.81, 2.0	287.49, 8.0	401.54, 2.0	
260 deg:	401.90, 4.0	402.58, 2.0	500.22, 4.0			
265 deg:	13.00, 5000.0	20.13, 8.0	250.02, 15.0	314.88, 8.0		
270 deg:	438.58, 2.0	500.22, 4.0				
275 deg:	13.43, 5000.0	19.25, 8.0	260.24, 15.0	261.50, 8.0		
280 deg:	261.99, 15.0	314.61, 8.0	336.75, 15.0	337.87, 2.0	338.50, 15.0	
285 deg:	438.51, 2.0	500.09, 4.0				
290 deg:	14.43, 5000.0	17.89, 8.0	214.41, 15.0	321.13, 8.0		
295 deg:	365.32, 15.0	396.19, 8.0	404.93, 2.0	500.16, 4.0		
300 deg:	14.99, 5000.0	17.30, 8.0	191.28, 15.0	335.86, 8.0		
305 deg:	377.28, 15.0	443.94, 8.0	500.25, 4.0			
310 deg:	16.87, 5000.0	126.35, 15.0	357.94, 8.0	419.91, 15.0		
315 deg:	468.36, 8.0	499.79, 4.0				
320 deg:	16.61, 5000.0	18.25, 30.0	118.17, 15.0	454.24, 8.0		
325 deg:	500.04, 4.0					
330 deg:	16.17, 5000.0	20.46, 30.0	107.09, 15.0	107.50, 8.0		
335 deg:	108.27, 15.0	386.78, 8.0	500.01, 4.0			
340 deg:	16.15, 5000.0	22.79, 30.0	83.19, 15.0	83.55, 30.0		
345 deg:	84.36, 15.0	84.72, 30.0	85.52, 15.0	94.15, 30.0	402.00, 8.0	
350 deg:	402.81, 4.0	403.99, 8.0	404.80, 4.0	472.54, 8.0	499.92, 5000.0	
355 deg:	16.32, 5000.0	28.86, 30.0	60.16, 15.0	60.46, 30.0		
360 deg:	61.30, 15.0	83.81, 30.0	154.23, 8.0	227.28, 15.0	329.02, 8.0	
365 deg:	333.33, 5000.0	335.02, 8.0	335.33, 5000.0	337.02, 8.0	339.33, 5000.0	
370 deg:	360.49, 8.0	385.97, 5000.0	448.66, 8.0	500.24, 5000.0		
375 deg:	16.90, 5000.0	49.38, 30.0	75.90, 5000.0	141.81, 8.0		
380 deg:	142.06, 5000.0	142.93, 8.0	164.62, 5000.0	226.60, 15.0	272.65, 8.0	
385 deg:	500.15, 5000.0					
390 deg:	17.34, 5000.0	29.74, 30.0	36.57, 5000.0	43.21, 30.0		
395 deg:	69.08, 5000.0	135.22, 8.0	172.62, 5000.0	217.58, 15.0	499.86, 5000.0	
400 deg:	17.94, 5000.0	28.36, 30.0	64.05, 5000.0	130.88, 8.0		
405 deg:	500.10, 5000.0					
410 deg:	18.68, 5000.0	25.21, 30.0	38.19, 5000.0	38.26, 8.0		
415 deg:	39.18, 5000.0	47.55, 8.0	59.61, 5000.0	112.61, 8.0	500.32, 5000.0	
420 deg:	37.15, 5000.0	83.48, 8.0	500.40, 5000.0			
425 deg:	27.97, 5000.0	29.88, 30.0	35.42, 5000.0	72.65, 8.0		
430 deg:	500.38, 5000.0					
435 deg:	17.01, 5000.0	17.93, 30.0	22.74, 5000.0	29.26, 30.0		
440 deg:	31.08, 5000.0	34.86, 30.0	38.63, 5000.0	44.36, 8.0	500.21, 5000.0	
445 deg:	16.42, 5000.0	36.54, 30.0	499.83, 5000.0			
450 deg:	15.75, 5000.0	35.66, 30.0	500.11, 5000.0			
455 deg:	15.43, 5000.0	33.95, 30.0	500.20, 5000.0			
460 deg:	12.97, 5000.0	13.78, 30.0	14.13, 5000.0	34.13, 30.0		
465 deg:	499.87, 5000.0					

KDYA - CP - CONDUCTIVITY TABULATION.TXT									
215 deg:	9.48, 5000.0	10.22, 30.0	11.40, 5000.0	33.71, 30.0					
	499.95, 5000.0								
220 deg:	8.76, 5000.0	33.99, 30.0	36.35, 5000.0	37.53, 30.0					
	500.45, 5000.0								
225 deg:	8.09, 5000.0	34.10, 30.0	35.27, 5000.0	37.62, 30.0					
	499.72, 5000.0								
230 deg:	6.32, 5000.0	6.92, 30.0	7.47, 5000.0	37.87, 30.0					
	500.18, 5000.0								
235 deg:	6.32, 5000.0	37.94, 30.0	500.08, 5000.0						
240 deg:	5.81, 5000.0	38.80, 30.0	500.01, 5000.0						
245 deg:	4.74, 5000.0	38.78, 30.0	500.13, 5000.0						
250 deg:	3.74, 5000.0	42.07, 30.0	500.13, 5000.0						
255 deg:	2.14, 5000.0	2.37, 30.0	3.74, 5000.0	48.42, 30.0					
	49.83, 5000.0	53.60, 30.0	500.26, 5000.0						
260 deg:	2.14, 5000.0	49.53, 30.0	500.01, 5000.0						
265 deg:	2.14, 5000.0	48.29, 30.0	499.90, 5000.0						
270 deg:	2.14, 5000.0	46.59, 30.0	499.81, 5000.0						
275 deg:	2.14, 5000.0	47.45, 30.0	499.73, 5000.0						
280 deg:	2.14, 5000.0	49.45, 30.0	499.79, 5000.0						
285 deg:	1.64, 5000.0	5.35, 30.0	6.04, 8.0	51.12, 30.0					
	500.17, 5000.0								
290 deg:	1.64, 5000.0	4.00, 30.0	6.04, 8.0	57.19, 30.0					
	58.87, 5000.0	60.24, 30.0	500.10, 5000.0						
295 deg:	1.64, 5000.0	4.00, 30.0	7.04, 8.0	64.02, 30.0					
	500.00, 5000.0								
300 deg:	1.64, 5000.0	4.00, 30.0	7.44, 8.0	72.76, 30.0					
	500.18, 5000.0								
305 deg:	1.64, 5000.0	4.49, 30.0	8.54, 8.0	110.97, 30.0					
	500.35, 5000.0								
310 deg:	1.64, 5000.0	3.93, 30.0	9.07, 8.0	9.66, 30.0					
	10.21, 8.0	147.78, 30.0	500.02, 5000.0						
315 deg:	1.64, 5000.0	3.43, 30.0	10.82, 8.0	11.46, 30.0					
	11.98, 8.0	159.51, 30.0	160.03, 4.0	160.67, 5000.0	161.19, 4.0				
	499.87, 5000.0								
320 deg:	2.25, 5000.0	3.43, 30.0	14.50, 8.0	151.87, 30.0					
	188.83, 4.0	499.82, 5000.0							
325 deg:	2.25, 5000.0	3.03, 30.0	18.31, 8.0	19.06, 30.0					
	20.24, 8.0	134.63, 30.0	147.51, 8.0	204.76, 4.0	289.04, 5000.0				
	290.62, 4.0	499.86, 5000.0							
330 deg:	1.89, 5000.0	3.03, 30.0	30.00, 8.0	30.80, 30.0					
	31.97, 8.0	96.40, 30.0	144.73, 8.0	322.96, 4.0	500.08, 5000.0				
335 deg:	1.89, 5000.0	3.03, 30.0	143.42, 8.0	346.81, 4.0					
	500.15, 5000.0								
340 deg:	1.89, 5000.0	2.77, 30.0	144.06, 8.0	412.56, 4.0					
	413.42, 5000.0	414.53, 4.0	415.40, 5000.0	416.51, 4.0	421.33, 5000.0				
	422.45, 4.0	429.24, 5000.0	440.24, 4.0	500.03, 5000.0					
345 deg:	1.89, 5000.0	2.77, 30.0	147.62, 8.0	499.82, 4.0					
350 deg:	1.89, 5000.0	2.77, 30.0	154.18, 8.0	499.97, 4.0					
355 deg:	2.69, 5000.0	3.61, 30.0	179.42, 8.0	238.00, 4.0					
	238.99, 8.0	240.83, 4.0	250.12, 8.0	500.40, 4.0					

NIGHTTIME PROTECTION CONSTRAINTS
Proposed NEW AM, Reno, NV

AM Allocation Study
Coordinates : 39-34-05.0 N 119-45-12.0 W
Frequency : 1180
Initial PWR: 1.000
Initial Inv Field: 325.39 mV/M

SITE INFO	BEARING CALL	LIM	CLASS	SLANT DIST	GEOMAG MIDPT	Prop*			Prop*			SWAVE FLD	LIMITATION ALLOWABLE	RSS LIMIT 50%	RSS LIMIT 25%
						AZIMUTH TO	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	PROP.				
22.8	* KOFI	90.109	B	1074.0	50.8	22.8	75.0	5.4	10.4	72.8	0.505	0.034680	0.505	2.500	2.500
46.3	8312	1240.490	B	1881.7	53.0	46.3	297.5	1.6	1.6	297.0	0.767	0.012908	0.767	7.276	7.276
57.1	NEW	21689.599	B	5306.6	59.4	57.1	371.4	0.0	0.0	371.4	0.113	0.001029	0.113	8.929	8.929
58.3	NEW	39867.143	B	4445.1	57.6	58.3	377.2	0.0	0.0	377.2	0.113	0.001502	0.113	23.947	23.947
64.4	KYES	1383.894	B	2183.4	51.6	64.4	403.0	0.0	1.4	403.0	0.647	0.008024	0.647	8.883	8.883
69.7	**WHAM		A	3493.9	278.2	69.7	0.0	0.0	0.0	0.0	0.025	0.004482	0.025	0.000	0.000
72.9	WLXB	48730.151	B	3840.9	52.3	72.9	419.6	0.0	0.0	419.6	0.016	0.001923	0.016	7.498	7.498
75.7	WOMO	11592.616	B	2910.1	50.7	75.7	420.2	0.0	0.0	420.2	0.038	0.004470	0.038	4.146	4.146
75.8	KJOC	5193.345	B	2477.1	50.2	75.8	420.2	0.0	0.0	420.2	0.056	0.006707	0.056	2.786	2.786
76.3	WVVA	7539.340	B	3293.6	281.8	76.3	0.0	0.0	0.0	0.0	0.250	0.003316	0.250	0.000	0.000
76.9	KOIL	974.038	B	2040.8	49.5	76.9	419.7	0.0	2.1	419.7	0.893	0.010633	0.893	8.285	8.285
83.4	KREF	10057.195	B	2546.1	48.8	83.4	409.4	0.0	0.0	409.4	0.057	0.006907	0.057	5.557	5.557
83.4	KPHN	6285.754	B	2174.1	48.0	83.4	409.4	0.0	1.4	409.4	0.080	0.009793	0.080	4.324	4.324
92.7	**KFAQ		A	2129.5	287.5	92.7	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
94.3	WACV	10868.622	B	3098.7	46.5	94.3	363.5	0.0	0.0	363.5	0.250	0.013815	0.250	0.000	0.000
96.2	9608	3127.974	B	3349.6	45.9	96.2	351.8	0.0	0.0	351.8	0.037	0.005156	0.037	4.483	4.483
97.5	WANT	34431.070	B	3718.6	45.2	97.5	343.7	0.0	0.0	343.7	0.222	0.004495	0.222	10.829	10.829
97.6	WJNT	1761.898	B	2780.8	45.9	97.6	342.5	0.0	0.0	342.5	0.025	0.003685	0.025	9.692	9.692
98.0	WBWJ	9999.000	B	5632.6	42.4	98.0	335.9	0.0	0.0	335.9	0.011	0.001633	0.011	9.455	9.455
99.1	WPSP	33588.036	B	3906.8	44.6	99.1	332.6	0.0	0.0	332.6	0.023	0.003415	0.023	7.841	7.841
99.4	WLEO	9999.000	B	5614.8	42.1	99.4	330.7	0.0	0.0	330.7	0.011	0.001671	0.011	13.325	13.325
100.2	WAVS	41669.576	B	3953.1	44.2	100.2	325.0	0.0	0.0	325.0	0.026	0.003389	0.026	11.247	11.247
101.2	HIBE	47313.090	B	5303.8	41.9	101.2	316.9	0.0	0.0	316.9	0.026	0.000410	0.026	7.759	7.759
101.3	ZYH-	40982.704	B	8952.2	34.2	101.3	316.3	0.0	0.0	316.3	0.010	0.000153	0.010	2.500	2.500
102.3	KPKR	7617.065	B	2221.9	45.4	102.3	309.0	0.0	1.2	309.0	0.067	0.003836	0.067	6.803	6.803
103.3	YVOR	9999.000	B	6406.8	38.8	103.3	297.2	0.0	0.0	297.2	0.017	0.000280	0.017	7.935	7.935
107.7	KGOL	1355.122	B	2463.3	44.2	107.7	263.6	0.0	0.0	263.6	0.023	0.009234	0.023	9.711	9.711
110.8	VYVJ	9999.000	B	5810.7	37.3	110.8	235.3	0.0	0.0	235.3	0.016	0.000339	0.016	13.988	13.988
112.8	ZYH-	9999.000	B	7706.0	31.7	112.8	216.4	0.0	0.0	216.4	0.009	0.000205	0.009	6.500	6.500
114.0	HJGK	9999.000	B	8629.7	28.6	114.0	204.3	0.0	0.0	204.3	0.007	0.000169	0.007	10.000	10.000
115.2	HJGK	9999.000	B	5880.1	35.5	115.2	193.3	0.0	0.0	193.3	0.013	0.000332	0.013	10.990	10.990
116.0	ZYJ-	2385.948	A	10533.8	311.2	116.0	0.0	0.0	0.0	0.0	0.023	0.001048	0.023	0.000	0.000
116.6	ZYJ-	9999.000	B	8514.6	27.7	116.6	179.1	0.0	0.0	179.1	0.006	0.000170	0.006	6.500	6.500
119.1	HJFX	9999.000	B	5863.3	34.1	119.1	154.1	0.0	0.0	154.1	0.010	0.000334	0.010	14.540	14.540
121.5	HJFX	9999.000	B	9490.9	22.4	121.5	130.3	0.0	0.0	130.3	0.004	0.000140	0.004	3.947	3.947
123.3	* KYET	170.774	B	845.9	44.8	123.3	112.5	0.0	14.4	106.1	1.286	0.060586	1.286	8.277	8.277
123.4	XENV	2110.953	B	1926.6	42.6	123.4	110.7	0.0	0.0	110.5	0.264	0.011953	0.264	10.537	10.537
126.2	ZP52	9999.000	B	9758.5	19.3	126.2	84.6	0.0	0.0	84.6	0.002	0.000132	0.002	5.009	5.009
129.6	CX 1	9999.000	B	10157.9	16.3	129.6	54.4	0.0	0.0	54.4	0.001	0.000130	0.001	7.014	7.014
130.0	XEAH	3650.125	B	3517.3	37.5	130.0	51.4	0.0	0.0	51.4	0.026	0.002493	0.026	4.165	4.165
131.5	OC24	9999.000	B	7373.0	25.0	131.5	41.5	0.0	0.0	41.5	0.002	0.000233	0.002	10.000	10.000
133.2	XE	1797.788	B	2358.8	40.2	133.2	34.7	0.0	0.0	34.7	0.046	0.005576	0.046	5.805	5.805
133.2	KNUV	1537.914	B	974.6	43.9	133.2	34.6	0.0	11.9	33.9	0.033	0.048843	0.033	6.009	6.009
140.7	CB 1	1356.510	B	9550.2	32.4	140.7	0.0	0.0	0.0	0.0	0.023	0.001843	0.023	0.000	0.000
160.3	KCBQ	2340.553	A	809.1	43.2	160.3	129.4	0.0	15.2	127.4	0.168	0.066105	0.168	12.378	12.378
164.3	KXWX	1145.264	B	677.6	43.6	164.3	121.7	0.0	18.8	118.7	0.205	0.086429	0.205	7.919	7.919
175.0	* KERN	68.451	B	44.3	44.3	175.0	67.4	0.0	27.2	66.4	1.853	0.139497	1.853	7.639	7.639
216.2	* KLOK	543.067	B	367.7	44.9	216.2	431.5	0.0	37.1	370.5	1.336	0.208435	1.336	9.056	9.056
252.3	* KORL	661.443	B	4142.0	34.8	252.3	658.7	0.0	0.0	658.7	0.022	0.004725	0.022	2.500	2.500
283.9	NEW	27151.858	B	9527.5	24.9	283.9	530.6	0.0	0.0	530.6	0.012	0.001151	0.012	2.500	2.500
336.6	* KJNP		B	3315.8	134.2	336.6	0.0	0.0	0.0	0.0	0.250	0.082155	0.250	0.000	0.000
341.4	* KEX		A	690.4	159.5	341.4	0.0	0.0	0.0	0.0	0.000	0.086088	0.000	0.000	0.000
346.6	* KLAY	337.145	B	892.5	49.7	346.6	124.2	0.0	13.4	122.8	1.231	0.050138	1.231	13.523	13.523
349.1	KPUG	1530.956	B	1064.7	50.4	349.1	128.7	0.0	10.5	127.9	0.092	0.035792	0.092	4.384	4.384

Key: * = Broadcast facility with a radiation limitation small enough to warrant individual attention; a tabulation of the subject station's RSS contributors and the required protection limitation is detailed in the Nighttime Limit Study for each station, exhibits included with this application.

** = Class A domestic station on co-channel or first-adjacent channel. See attached skywave or groundwave protection studies.

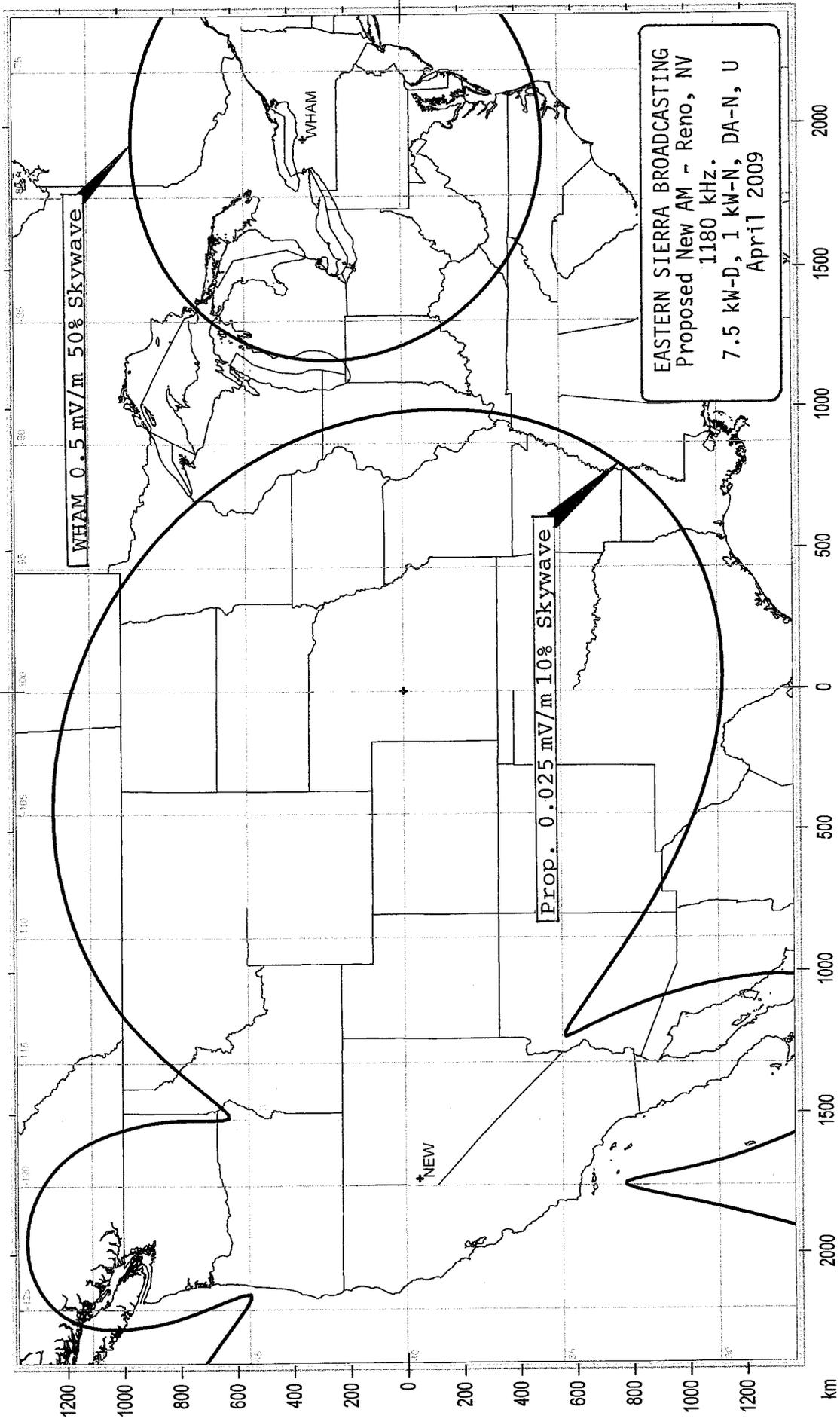
CLASS A NIGHTTIME CONTOUR PROTECTION STUDY

Proposed Station: NEW Location: Reno, NV Site: N 39° 34' 05" W 119° 45' 12" Date: 04-02-09
 Protected Station: WHAM, 1180 kHz, Rochester, NY Protected Contour: 0.5 mV/m 50% Skywave

Point	Latitude	Longitude	From: WHAM		Required Protection (mV/m)	From: Prop. NEW		θmin (Deg)	θmax (Deg)	SWF uV/m	Maximum Permissible mV/m/km @ θ	Proposed Radiation mV/m/km @ θ
			Distance (km)	Bearing (°T)		Distance (km)	Bearing (°T)					
Shore	35-45-14	75-29-50	836.8	166.1	0.500	3879.0	81.9	0.0	0.0	2.432	1028.0	412.88
S-170	35-38-31	76-07-02	838.6	170.0	0.500	3830.6	82.4	0.0	0.0	2.542	983.5	411.77
S-180	35-30-38	77-43-30	841.8	180.0	0.500	3698.8	83.5	0.0	0.0	2.842	879.7	409.06
S-190	35-37-11	79-20-14	841.1	190.0	0.500	3557.3	84.1	0.0	0.0	3.169	788.9	407.43
S-200	35-58-01	80-53-47	836.3	200.0	0.500	3411.8	84.2	0.0	0.0	3.516	711.0	407.15
S-210	36-32-05	82-21-05	827.9	210.0	0.500	3268.2	83.9	0.0	0.0	3.871	645.8	407.99
S-220	37-18-00	83-38-57	815.9	220.0	0.500	3133.3	83.0	0.0	0.0	4.211	593.7	410.34
S-230	38-13-33	84-45-00	801.1	230.0	0.500	3013.3	81.5	0.0	0.0	4.511	554.2	413.71
S-240	39-16-35	85-37-02	783.8	240.0	0.500	2914.1	79.6	0.0	0.0	4.736	527.9	416.99
S-250	40-24-23	86-13-35	764.9	250.0	0.500	2840.3	77.2	0.0	0.0	4.854	515.0	419.53
S-260	41-34-28	86-33-27	744.7	260.0	0.500	2795.0	74.6	0.0	0.0	4.840	516.5	420.26
S-270	42-46-05	86-12-29	691.2	270.0	0.500	2811.3	71.8	0.0	0.0	4.539	550.8	418.69
S-280	43-51-25	86-23-29	704.2	280.0	0.500	2790.1	69.2	0.0	0.0	4.427	564.7	415.05
S-290	44-54-12	85-54-45	685.1	290.0	0.500	2826.5	66.8	0.0	0.0	4.077	613.2	409.84
S-300	45-44-15	84-51-15	638.2	300.0	0.500	2910.2	64.9	0.0	0.0	3.600	694.4	404.46

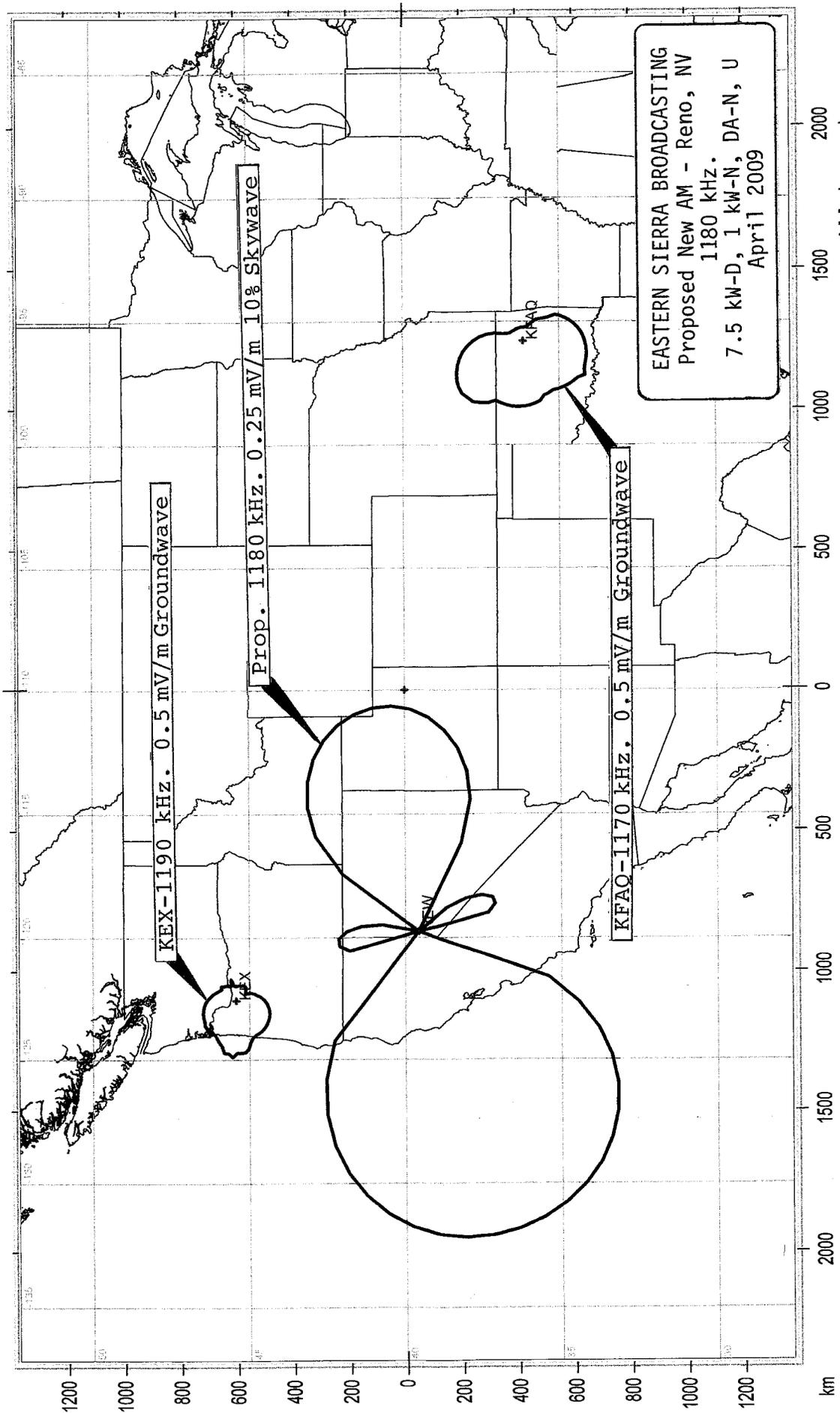
Note: Points on the WHAM 0.5 mV/m 50% Skywave Contour counter-clockwise from 166.1°T fall over the Atlantic Ocean. Points on that same contour clockwise from 300°T fall over Canadian land area or international waters of the Great Lakes. Protection of the WHAM skywave contour along the Atlantic Ocean coastline or the U.S.-Canada border are calculated on a 20:1 basis. Since the maximum permissible radiation from this proposal, so calculated, is far greater at those shore/border points than at those contour points calculated above, examination of this proposal's impact upon the WHAM contour counter-clockwise from 166.1°T (Point "Shore") or clockwise from 300°T may be ignored for this application.

Proposed Reno, NV 1180 kHz 10% 0.025 mV/m contour to WHAM 50% 0.5 mV/m contours



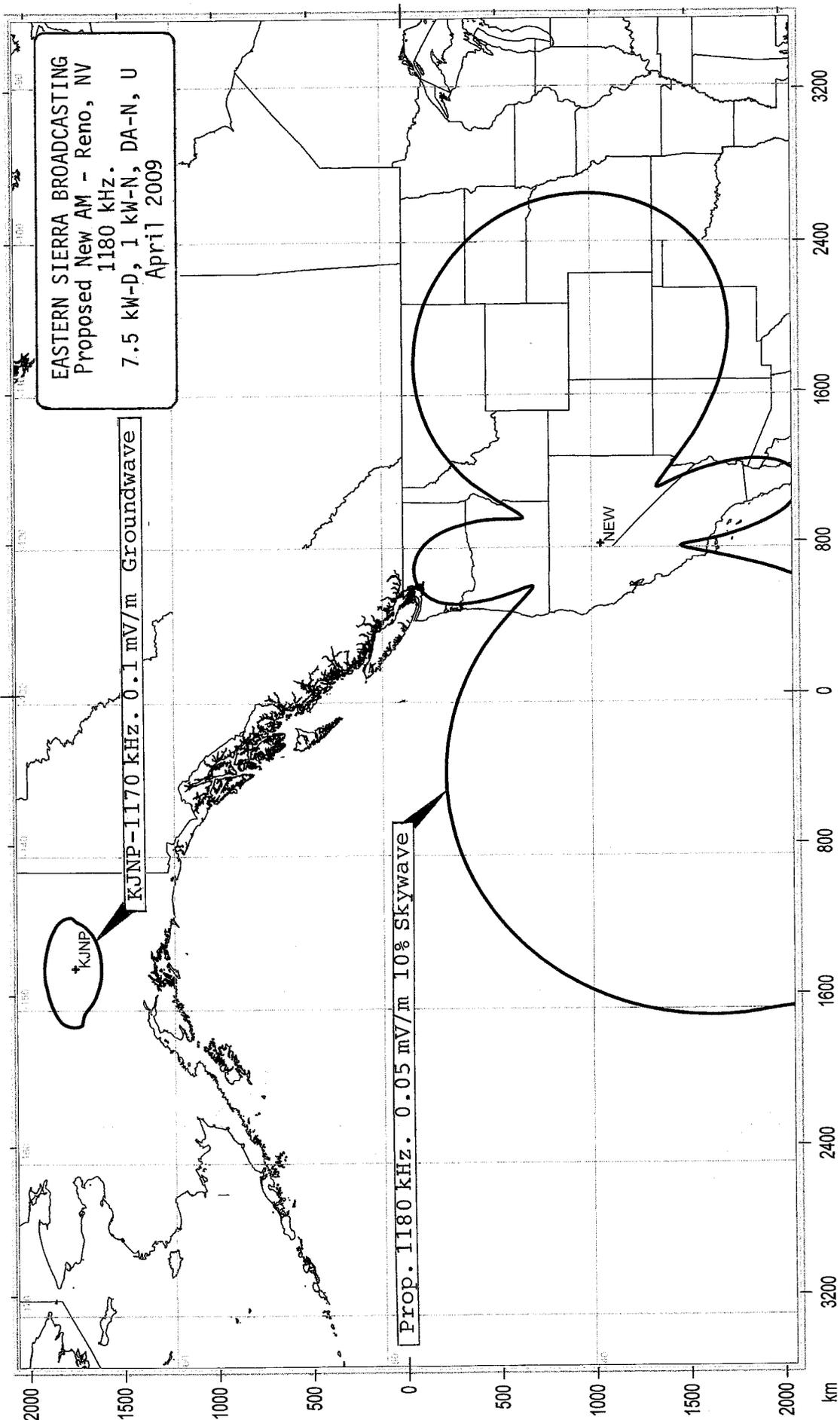
Proposed NEW AM (Reno, NV) 0.025 mV/m 10% Nighttime Skywave Contour clears the WHAM Licensed 0.5 mV/m 50% Skywave Contour at all azimuths, including at all WHAM Contour Protection Points calculated in the accompanying exhibit.

Proposed Reno, NV 0.25 mV/m 10% Skywave to KEX & KFAQ 0.5 mV/m Groundwave



Calculations of the KFAQ-1170 kHz, and KEX-1190 kHz, Protected 0.5 mV/m Groundwave Contours will be made available on Commission request. This proposal's 0.25 mV/m 10% Nighttime Skywave Contour provides ample clearance to both KFAQ and KEX protected contours.

Proposed Reno, NV 0.05 mV/m 10% Skywave to KJNP 0.1 mV/m Groundwave



Calculations of the KJNP-1170 kHz. Protected 0.1 mV/m Groundwave Contour will be made available on Commission request. This proposal's 0.05 mV/m 10% Nighttime Skywave Contour provides ample clearance to the KJNP (first-adjacent) protected groundwave contour.

NIGHTTIME LIMIT STUDY: KOFI, Kalispell, MT

AM Allocation Study
 Coordinates : 48-11-52.0 N 114-15-03.0 W
 Frequency : 1180
 Initial PWR: 10,000
 Initial Inv Field: 1095.96 mV/M

SITE INFO		ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
CALL FRQ	COUNTRY CITY		A	2874.3	57.1	294.2	2662.9	0.0	0.0	2662.9	0.002243	1.194	1.194	1.194
	WHAM 1180 US ROCHESTER	NY 2867.3												
	KERN 1180 US WASCO-GREENACRE CA 1464.4	CA 1478.0	B	1478.0	48.9	15.0	172.1	2.3	6.0	171.7	0.020733	0.712	1.391	1.391
	CB 1 1180 CI SANTIAGO 6	10047.5	A	10049.5	18.7	332.6	2675.1	0.0	0.0	2675.1	0.001222	0.654	0.000	1.537
	KEX 1190 US PORTLAND	OR 703.4	A	731.3	53.5	61.0	534.1	10.0	17.2	511.5	0.061769	0.632	0.000	1.661
	KOIL 1180 US BELLEVUE	NE 1643.4	B	1655.5	54.0	304.2	255.2	1.3	4.6	255.1	0.012282	0.627	0.000	1.776
	KYET 1180 US WILLIAMS	AZ 1448.4	B	1462.2	49.4	353.9	143.2	2.4	6.1	143.1	0.020748	0.594	0.000	1.872
	KFAQ 1170 US TULSA	OK 2016.4	A	2026.3	51.5	317.4	3089.9	0.0	2.2	3089.9	0.009531	0.589	0.000	1.963
	KLAY 1180 US LAKEWOOD	WA 621.6	B	652.9	54.4	76.2	41.0	11.6	19.6	40.2	0.072610	0.584	0.000	2.048
	8312 1180 CA VIRIDEN	MB 993.5	B	1013.5	57.5	264.7	92.7	6.0	11.3	92.0	0.025904	0.477	0.000	0.000

1.391 mV/m

Nighttime Interference-Free 50% RSS at KOFI Site:

Interference contributors: WHAM=1.194 mV/m
 KERN=0.712 mV/m

[Protected KOFI contour restricted to no less than 2 mV/m per Section 73.182(g) of the Commission's Rules.]

2.048 mV/m

Nighttime 25% RSS at KOFI Site:

Interference contributors: WHAM=1.194 mV/m
 KERN=0.712 mV/m
 CB 1=0.654 mV/m
 KEX =0.632 mV/m
 KOIL=0.627 mV/m
 KYET=0.594 mV/m
 KFAQ=0.589 mV/m
 KLAY=0.584 mV/m

0.512 mV/m
 =====

Required Protection from Proposed NEW AM @ Reno, NV:

NIGHTTIME LIMIT STUDY: KYET, Williams, AZ

AM Allocation study
 Coordinates : 35-15-38.0 N 112-10-55.0 W
 Frequency : 1180
 Initial PWR: 0.250
 Initial Inv Field: 143.23 mV/M

SITE INFO CALL FRQ	COUNTRY	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
KOFI 1180 US		KALISPELL	MT 1448.4	B	1462.2	49.4	172.5	1600.4	2.4	6.1	1595.7	0.020748	6.622	6.622	6.622
KERN 1180 US		WASCO-GREENACRE	CA 647.9	B	678.1	42.8	91.0	215.2	11.1	18.8	214.4	0.086736	3.720	7.595	7.595
KOIL 1180 US		BELLEVUE	NE 1576.1	B	1588.7	47.6	250.2	656.3	1.7	5.1	655.7	0.019080	2.502	0.000	7.996
WHAM 1180 US		ROCHESTER	NY 3070.5	A	3077.0	50.5	265.3	2662.9	0.0	0.0	2662.9	0.004013	2.137	0.000	8.277
KFAQ 1170 US		TULSA	OK 1479.9	A	1493.3	45.1	271.0	4283.9	2.2	5.8	4268.2	0.023112	1.973	0.000	0.000
KGOL 1180 US		HUMBLE	TX 1677.2	B	1689.0	42.2	294.3	339.2	1.1	4.3	339.0	0.019810	1.343	0.000	0.000

Nighttime Interference-Free 50% RSS at KYET Site: 7.595 mV/m

Interference contributors: KOFI=6.622 mV/m
 KERN=3.720 mV/m

Nighttime 25% RSS at KYET Site: 8.277 mV/m

Interference contributors: KOFI=6.622 mV/m
 KERN=3.720 mV/m
 KOIL=2.502 mV/m
 WHAM=2.137 mV/m

Required Protection from Proposed NEW AM @ Reno, NV: 2.069 mV/m

NIGHTTIME LIMIT STUDY: KERN, Wasco-Greenacres, CA

AM Allocation Study
 Coordinates : 35-34-17.0 N 119-19-26.0 W
 Frequency : 1180
 Initial Pwr: 10,000
 Initial Inv Field: 969.66 mV/M

SITE INFO	ST DIST	CLASS SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
CALL FRQ	MT 1464.4	B 1478.0	48.9	198.4	1752.0	2.3	6.0	1747.3	0.020733	7.245	7.245	7.245
KOFI 1180 US	AZ 647.9	B 678.1	42.8	275.1	143.2	11.1	18.8	139.5	0.086736	2.420	0.000	7.639
KYET 1180 US	NY 3634.5	A 3640.0	50.8	271.0	2662.9	0.0	0.0	2662.9	0.002591	1.380	0.000	0.000
WHAM 1180 US	NE 2138.2	B 2147.6	47.5	260.4	621.8	0.0	1.6	621.8	0.010613	1.320	0.000	0.000
KOTL 1180 US												

7.245 mV/m

Nighttime Interference-Free 50% RSS at KERN Site:

Interference contributor(s): KOFI=7.245 mV/m

7.639 mV/m

Nighttime 25% RSS at KERN Site:

Interference contributors:
 KOFI=7.245 mV/m
 KYET=2.420 mV/m

1.910 mV/m
 =====

Required Protection from Proposed NEW @ Reno, NV:

NIGHTTIME LIMIT STUDY: KORL, Honolulu, HI

AM Allocation Study
 Coordinates : 21-26-18.0 N 157-59-29.0 W
 Frequency : 1180
 Initial PWR: 1.000
 Initial Inv Field: 297.50 mV/m

SITE INFO CALL FRQ	COUNTRY	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG	MTD	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
KERN 1180 US		WASCO-GREENACRE	CA 4059.1	B	4064.0	33.0		257.8	1485.6	0.0	0.0	1485.6	0.005272	1.566	1.566	1.566
CB 1 1180 CI		SANTIAGO	6 11059.8	A	11061.6	-0.5		289.5	2675.1	0.0	0.0	2675.1	0.001220	0.653	0.000	1.697
KOFI 1180 US		KALISPELL	MT 4879.3	B	4883.4	39.7		248.2	1024.8	0.0	0.0	1024.8	0.002597	0.532	0.000	1.778
KEX 1190 US		PORTLAND	OR 4176.0	A	4180.8	37.1		242.3	4396.8	0.0	0.0	4396.8	0.004185	0.368	0.000	0.000

1.566 mV/m

Nighttime Interference-Free 50% RSS at KORL Site:

Interference contributor(s): KERN=1.566 mV/m

[Protected KORL contour restricted to no less than 2 mV/m per Section 73.182(q) of the Commission's Rules]

1.778 mV/m

Nighttime 25% RSS at KORL Site:

Interference contributors:
 KERN=1.566 mV/m
 CB 1=0.653 mV/m
 KOFI=0.532 mV/m

[Protected KORL contour restricted to no less than 2 mV/m per Section 73.182(q) of the Commission's Rules]

0.500 mV/m
 =====

Required Protection from Proposed NEW AM @ Reno, NV
 (25% of 2 mV/m)

NIGHTTIME LIMIT STUDY: KLAY, Lakewood, WA

AM Allocation Study
 Coordinates : 47-09-00.0 N 122-24-38.0 W
 Frequency : 1180
 Initial PWR: 1.000
 Initial Inv Field: 310.53 mv/m

SITE INFO	CALL FRQ	COUNTRY	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG	MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
KOFI 1180 US			KALISPELL	MT 621.6	B	652.9	54.4		262.2	910.6	11.6	19.6	880.4	0.072610	12.785	12.785	12.785
KEX 1190 US			PORTLAND	OR 192.5	A	277.6	52.2		3.5	2216.1	36.4	50.7	744.2	0.296039	4.406	0.000	13.523
KPUG 1170 US			BELLINGHAM	WA 180.8	B	269.6	53.8		179.3	303.2	38.1	52.5	252.9	0.301257	1.524	0.000	0.000
WHAM 1180 US			ROCHESTER	NY 3486.6	A	3492.3	56.9		293.2	2662.9	0.0	0.0	2662.9	0.001342	0.715	0.000	0.000

Nighttime Interference-Free 50% RSS at KLAY Site:

12.785 mV/m

Interference contributor(s): KOFI=12.785 mV/m

Nighttime 25% RSS at KLAY Site:

13.523 mV/m

Interference contributors: KOFI=12.785 mV/m
 KEX = 4.406 mV/m

Required Protection from Proposed NEW AM @ Reno, NV:

3.381 mV/m
 =====

NIGHTTIME LIMIT STUDY: KLOK, San Jose, CA
(1170 kHz.)

AM Allocation Study
 Coordinates : 37-18-41.0 N 121-48-58.0 W
 Frequency : 1170
 Initial PWR: 5.000
 Initial Inv Field: 721.00 mV/m

SITE INFO	CALL FRQ	COUNTRY	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
KFAQ	1170 US		TULSA	OK 2313.9	A	2322.5	45.9	281.0	4200.1	0.0	0.7	4200.1	0.009738	8.180	8.180	8.180
KERN	1180 US		WASCO-GREENACRE	CA 295.1	B	356.5	43.0	311.7	1046.3	25.3	38.3	894.4	0.217188	3.885	0.000	9.056
KPUG	1170 US		BELLINGHAM	WA 1275.6	B	1291.2	49.1	177.5	284.4	3.6	7.7	284.1	0.026454	1.503	0.000	0.000

Nighttime Interference-Free 50% RSS at KLOK Site: 8.180 mV/m

Interference contributor(s): KFAQ=8.180 mV/m

Nighttime 25% RSS at KLOK Site: 9.056 mV/m

Interference contributors: KFAQ=8.180 mV/m
KERN=3.885 mV/m

Required Protection from Proposed NEW AM @ Reno, NV:
(First-Adjacent Frequency Protection) 22,640 mV/m

NIGHTTIME LIMIT STUDY: Proposed New AM, Reno, NV
(Amended Site)

AM Allocation Study
 Coordinates : 39-34-05.0 N 119-45-12.0 W
 Frequency : 1180
 Initial PWR: 1.000
 Initial Inv Field: 328.60 mV/m

SITE INFO	ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS 50%	RSS 25%
CALL FRQ	COUNTRY	CITY	MT 1055.2	B	1074.0	50.8	206.6	1674.7	5.4	10.4	1651.1	0.034680	11.452
KOFI 1180 US		KALISPELL	CA 446.0	B	488.8	44.3	355.3	116.3	16.9	27.2	115.1	0.139497	11.894
KERN 1180 US		WASCO-GREENACRE	AZ 821.9	B	845.9	44.8	307.9	143.2	8.1	14.4	141.2	0.060586	0.000
KVET 1180 US		WILLIAMS											

11.452 mV/m

Nighttime Interference-Free 50% RSS at Proposed Site:

Interference contributor(s): KOFI=11.452 mV/m

11.894 mV/m

Nighttime 25% RSS at Proposed Site:

Interference contributors: KOFI=11.452 mV/m
 KERN= 3.211 mV/m

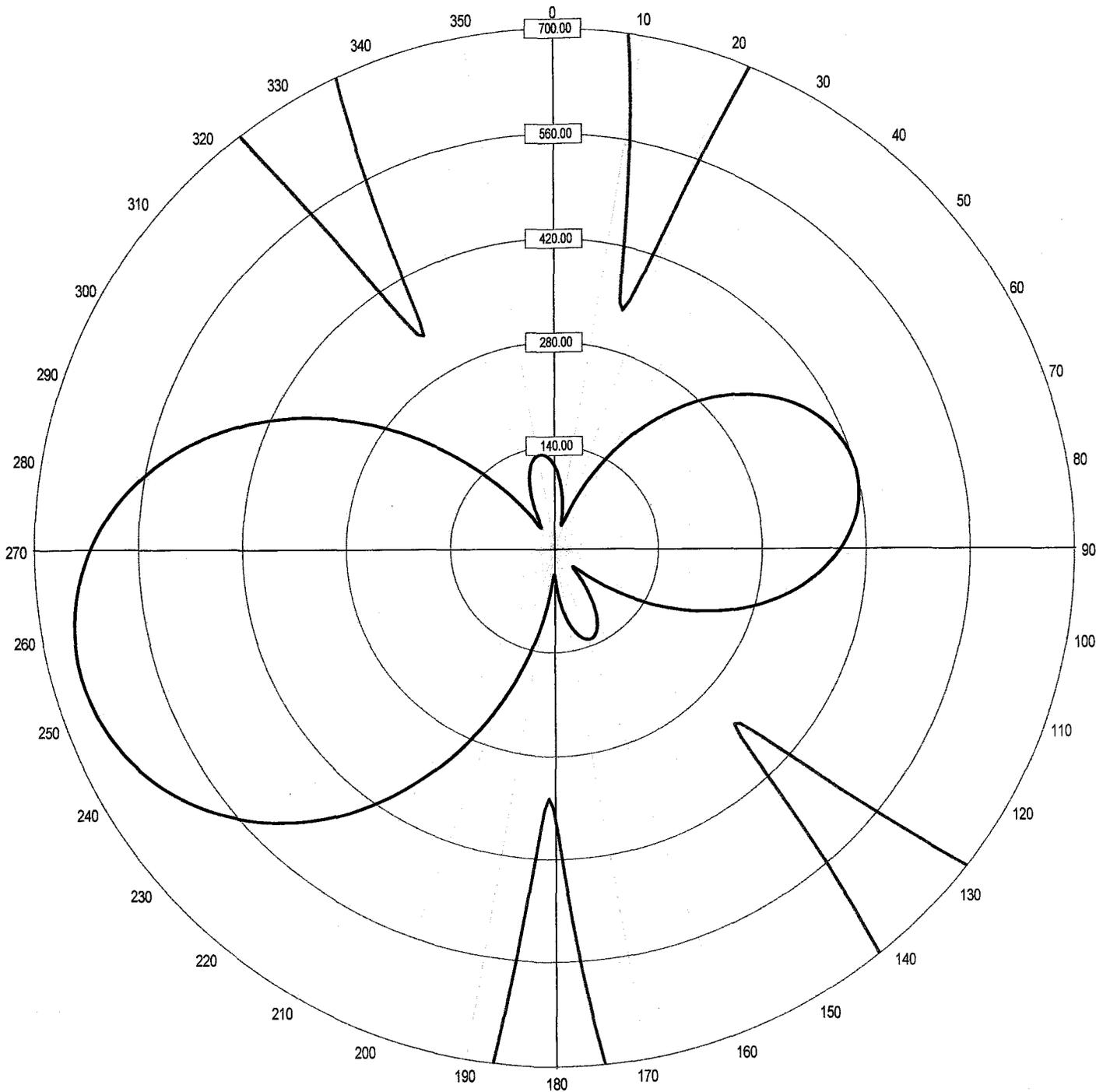
RENO, NV 1180 KHZ - NIGHT PATTERN TABULATION.TXT

Callsign : NEW
 Coordinates : 39-34-05.0 N, 119-45-12.0 W
 Comments :
 Frequency (KHz): 1180
 Power (w): 1000.000
 Pattern : AN
 Efficiency : 325.392 mV/M
 Desc : DAN
 City/State : RENO, NV
 ARN :
 Licensee : EASTERN SIERRA BROADCASTING

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	0.665	169.6	90.0	75.0	75.6	0.0
2	1.000	0.0	0.0	0.0	75.6	0.0
3	0.575	190.4	90.0	255.0	75.6	0.0

Field Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	114.129	75	420.289	150	114.129	225	520.802	300	357.735
5	90.671	80	416.396	155	127.571	230	562.777	305	294.545
10	60.241	85	404.773	160	129.602	235	597.512	310	229.554
15	34.619	90	385.603	165	119.723	240	624.705	315	164.923
20	51.437	95	359.210	170	98.336	245	644.193	320	103.508
25	95.524	100	326.096	175	67.389	250	655.903	325	51.206
30	145.050	105	286.978	180	36.479	255	659.808	330	36.479
35	194.960	110	242.836	185	51.206	260	655.903	335	67.389
40	242.836	115	194.960	190	103.508	265	644.193	340	98.336
45	286.978	120	145.050	195	164.923	270	624.705	345	119.723
50	326.096	125	95.524	200	229.554	275	597.512	350	129.602
55	359.210	130	51.437	205	294.545	280	562.777	355	127.571
60	385.603	135	34.619	210	357.735	285	520.802		
65	404.773	140	60.241	215	417.378	290	472.085		
70	416.396	145	90.671	220	472.085	295	417.378		
0.0 ohm K		: 577.755		1.0 ohm K		: 511.929			
RMSS		: 342.130		RMSt		: 325.392			
RSS		: 681.625							

0



Callsign	:TEST	T#	Field	Phase	Spacing	Orientation	Height	Top Load	Tower Ref
Frequency	:1180 kHz	1	0.665	169.6	0.0	0.0	75.6	0.0	0
Power	:1.000 kw	2	1.000	0.0	90.0	255.0	75.6	0.0	0
ERSS	:681.6 mV/m/km	3	0.575	190.4	180.0	255.0	75.6	0.0	0
Theoret. Pattern RMS	:325.4 mV/m/km								
Standard Pattern RMS	:342.1 mV/m/km								
Modified Pattern RMS	:								
Latitude	:39-34-05.0 N								
Longitude	:119-45-12.0 W								
Number Augmentations	:0								

WHAM CRITICAL HOURS ANALYSIS

Eastern Sierra Broadcasting
Proposed New AM
Reno, NV

<u>WHAM</u> <u>Contour</u> <u>Point</u>	<u>WHAM 0.1mV/m G'dwave Contour</u> <u>Coordinates</u>	<u>Dist. from WHAM</u> <u>Bear. from WHAM</u>	<u>Dist. from Prop.</u> <u>Bear. from Prop.</u>	<u>Max. Permitted</u> <u>@ 1000 kHz.</u> <u>mV/m/mi</u>	<u>Max. Permitted</u> <u>@ 1600 kHz.</u> <u>mV/m/mi</u>	<u>Max. Allowed</u> <u>@ 1180 kHz.</u> <u>mV/m/km</u>	<u>Prop. Theta</u> <u>Angle</u>	<u>Prop. New AM</u> <u>Rad. @ Theta</u> <u>mV/m/km</u>
Pt. A (Border)	43-16-20 79-05-30	112.82 km. 70.10 mi 281.28°T	3381.3 km. 2101.2 mi. 69.58°T	5100 x.700 3570	1900 x.300 570	6663 @ 1km. (4140 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. B (Shore)	42-04-30 80-19-00	239.91 km. 149.07 mi. 243.06 °T	3300.3 km. 2050.9 mi. 72.20°T	4750 x.700 3325	1790 x.300 537	6215 @ 1km. (3862 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. C (240°)	42-01-41 80-07-26	228.76 km. 142.15 mi. 240.00 °T	3316.8 km. 2061.2 mi. 72.25°T	4800 x.700 3360	1800 x.300 540	6276 @ 1km. (3900 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. D (230°)	41-50-12 79-41-23	212.46 km. 132.02 mi. 230.00 °T	3355.6 km. 2085.3 mi. 72.53°T	4950 x.700 3465	1840 x.300 552	6465 @ 1km. (4017 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. E (220°)	41-37-53 79-20-27	208.90 km. 129.80 mi. 220.01 °T	3387.9 km. 2105.4 mi. 72.84°T	5000 x.700 3500	1880 x.300 564	6540 @ 1km. (4064 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. F (210°)	41-27-44 78-58-03	207.07 km. 128.68 mi. 210.00 °T	3421.8 km. 2126.4 mi. 73.07°T	5150 x.700 3605	1930 x.300 579	6733 @ 1km. (4184 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. G (200°)	41-19-50 78-34-20	206.85 km. 128.54 mi. 200.00 °T	3456.8 km. 2148.2 mi. 73.22°T	5200 x.700 3640	1970 x.300 591	6809 @ 1km. (4231 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615
Pt. H (180°)	41-13-11 77-43-30	207.06 km. 128.66 mi. 180.00 °T	3528.7 km. 2192.8 mi. 73.20°T	5380 x.700 3766	2030 x.300 609	7041 @ 1km. (4375 @ 1mi.)	0.0° 0.0° 0.0°	811.615 811.615 811.615