

## Proposed Reno, NV 1180 kHz - Nighttime Constraints.TXT

## AM Allocation Study

Coordinates : 39-34-10.0 N 119-44-03.0 W  
 Frequency : 1180  
 Initial PWR: 1.000  
 Initial Inv Field: 329.01 mV/m

SITE INFO		CLASS	SLANT DIST	GEOMAG MIDPT	AZIMUTH TO	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SHAVE FLD SHAVE FLD	LIMITATION ALLOWABLE	RSS LIMIT 50%	RSS LIMIT 25%
BEARING	CALL LIM												
22.7	KOFI 90.000	B	1073.3	50.8	22.7	88.9	5.4	10.4	86.5	0.034722	0.601	2.500	2.500
46.3	8312 1237.810	B	1880.4	53.0	46.3	306.4	1.6	1.6	307.9	0.012936	0.797	6.405	7.274
57.1	NEW 21311.730	B	5305.1	59.4	57.1	380.1	0.0	0.0	380.1	0.001030	0.078	8.776	8.776
58.3	NEW 39837.592	B	4443.6	57.6	58.3	385.8	0.0	0.0	385.8	0.001503	0.116	23.947	23.947
64.4	KYES 1383.273	B	2182.3	51.6	64.4	410.7	0.0	1.4	410.7	0.008032	0.660	8.889	8.889
69.7	WHAH 557.066	A	3538.7	278.2	69.7	0.0	0.0	0.0	0.0	0.004488	0.025	0.000	0.000
72.9	WLTB 48675.113	B	3839.3	52.3	72.9	426.8	0.0	0.0	426.8	0.001925	0.016	7.498	7.498
75.7	WMOO 11506.066	B	2908.5	50.7	75.7	427.4	0.0	0.0	427.4	0.004476	0.038	3.900	4.120
75.8	KJOC 5186.094	B	2475.5	50.2	75.8	427.3	0.0	0.0	427.3	0.006716	0.057	2.500	2.786
76.2	WETS 99999.000	B	3655.5	51.3	76.2	427.2	0.0	0.0	427.2	0.002450	0.021	17.213	18.234
76.3	WAVA 7530.384	A	2291.9	281.8	76.3	0.0	0.0	0.0	0.0	0.003320	0.250	0.000	0.000
76.9	KYDZ 972.489	B	2039.2	48.5	76.9	426.9	0.0	2.1	426.9	0.010650	0.909	8.285	8.285
83.4	KRPT 7791.821	B	2344.5	48.8	83.4	416.9	0.0	1.4	416.9	0.006916	0.058	3.920	4.311
92.7	KFAQ 1806.770	B	2172.5	48.6	92.7	416.9	0.0	1.4	416.9	0.009808	0.082	4.958	5.151
94.3	WACV 11301.928	A	2127.9	287.5	94.3	372.4	0.0	0.0	372.4	0.013837	0.250	0.000	0.000
96.2	9608 3238.689	B	3097.1	46.5	96.2	361.1	0.0	0.0	361.1	0.005162	0.038	3.628	4.667
97.5	WANT 37244.807	B	3348.0	45.9	97.5	353.2	0.0	0.0	353.2	0.004499	0.325	10.829	11.657
97.7	WJNT 1767.488	B	2779.2	45.2	97.7	352.0	0.0	0.0	352.0	0.003688	0.026	9.692	10.989
98.6	WBM1 99999.000	B	5631.0	42.4	98.6	345.7	0.0	0.0	345.7	0.006716	0.473	9.172	9.496
98.9	WPSF 36890.852	B	3905.2	44.6	98.9	342.4	0.0	0.0	342.4	0.001635	0.011	12.561	14.291
99.4	WLEO 99999.000	B	5613.2	42.1	99.4	340.6	0.0	0.0	340.6	0.003418	0.023	7.841	10.088
100.2	WAVS 41632.244	B	3951.6	44.2	100.2	335.1	0.0	0.0	335.1	0.001672	0.011	12.492	14.761
101.3	HIBE 47277.357	C	5302.3	41.9	101.3	326.7	0.0	0.0	326.7	0.003393	0.023	9.340	11.299
101.3	HIBE 40961.482	B	8950.6	34.2	101.3	326.7	0.0	0.0	326.7	0.000410	0.037	7.759	7.759
102.3	KPKR 8330.326	B	2220.3	45.4	102.3	319.5	0.0	1.2	319.5	0.000153	0.010	2.500	2.500
103.8	KGOL 1357.866	B	6405.3	38.8	103.8	308.2	0.0	0.0	308.2	0.010850	0.069	6.968	7.935
107.7	WVOR 99999.000	B	2461.8	44.2	107.7	275.5	0.0	0.0	275.5	0.000280	0.017	7.913	7.913
110.8	WVNI 99999.000	B	5809.2	37.3	110.8	248.1	0.0	0.0	248.1	0.009245	0.509	9.713	10.042
112.8	ZYH- 99999.000	B	7704.5	31.7	112.8	229.7	0.0	0.0	229.7	0.000339	0.017	13.988	15.175
115.2	HJOK 99999.000	B	5878.6	35.5	115.2	207.2	0.0	0.0	207.2	0.000205	0.009	6.500	6.500
116.0	ZY1- 2385.180	B	5053.4	31.2	116.0	0.0	0.0	0.0	0.0	0.000332	0.024	9.839	11.678
119.1	HJFK 99999.000	B	10532.4	34.1	119.1	168.9	0.0	0.0	168.9	0.001048	0.025	0.000	0.000
122.1	TIQ 32787.179	B	4896.6	35.7	122.1	139.4	0.0	0.0	139.4	0.000334	0.011	14.540	16.926
123.3	KYET 170.377	B	844.7	44.8	123.3	127.0	0.0	0.0	127.0	0.000482	0.013	6.324	6.324
123.5	XENV 2106.403	B	1925.3	42.6	123.5	125.7	0.0	1.4	125.7	0.060727	1.462	7.595	8.277
130.0	XEAH 6131.078	B	3516.2	37.5	130.0	63.0	0.0	0.0	63.0	0.011979	0.301	10.093	10.537
131.5	QCZ4 99999.000	C	7371.9	25.0	131.5	49.9	0.0	0.0	49.9	0.002495	0.031	6.119	6.925
131.5	XE 2312.524	B	2357.7	40.2	131.5	36.2	0.0	0.0	36.2	0.000233	0.002	10.000	10.000
133.2	KNUV 1894.613	B	973.6	43.9	133.2	35.5	0.0	0.0	35.5	0.006586	0.048	6.092	6.765
133.3	KNUV 3598.696	B	2741.3	38.8	133.3	35.5	0.0	0.0	35.5	0.004928	0.033	6.107	6.633
134.8	KCBQ 2338.825	B	808.7	43.2	134.8	25.0	0.0	0.0	25.0	0.004509	0.023	6.490	6.739
160.4	KXKK 1179.765	B	677.3	43.6	160.4	98.5	0.0	0.0	98.5	0.006154	0.128	12.378	12.378
164.5	KERT 68.454	B	488.8	44.3	164.5	90.5	0.0	0.0	90.5	0.006482	0.153	8.162	8.162
175.2	KERT 68.454	B	368.6	44.9	175.2	35.7	0.0	0.0	35.7	0.139490	1.035	7.245	7.639
216.5	KLOK 544.964	B	368.6	44.9	216.5	443.1	0.0	0.0	443.1	0.207710	1.382	8.180	9.056
252.3	KJNP 662.066	B	4143.7	34.8	252.3	660.1	0.0	0.0	660.1	0.004720	0.623	2.500	2.500
336.6	KJNP 137.246	B	3316.3	134.1	336.6	0.0	0.0	0.0	0.0	0.182155	0.250	0.000	0.000
341.3	KEX 290.913	A	690.8	159.4	341.3	0.0	0.0	0.0	0.0	0.085936	0.250	0.000	0.000
346.5	KLAY 337.317	B	892.7	49.7	346.5	93.2	0.0	0.0	93.2	0.050113	0.923	12.785	13.523
349.0	KPUG 1531.516	B	1064.8	50.4	349.0	97.8	5.5	10.5	97.2	0.035779	0.070	3.693	4.384

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

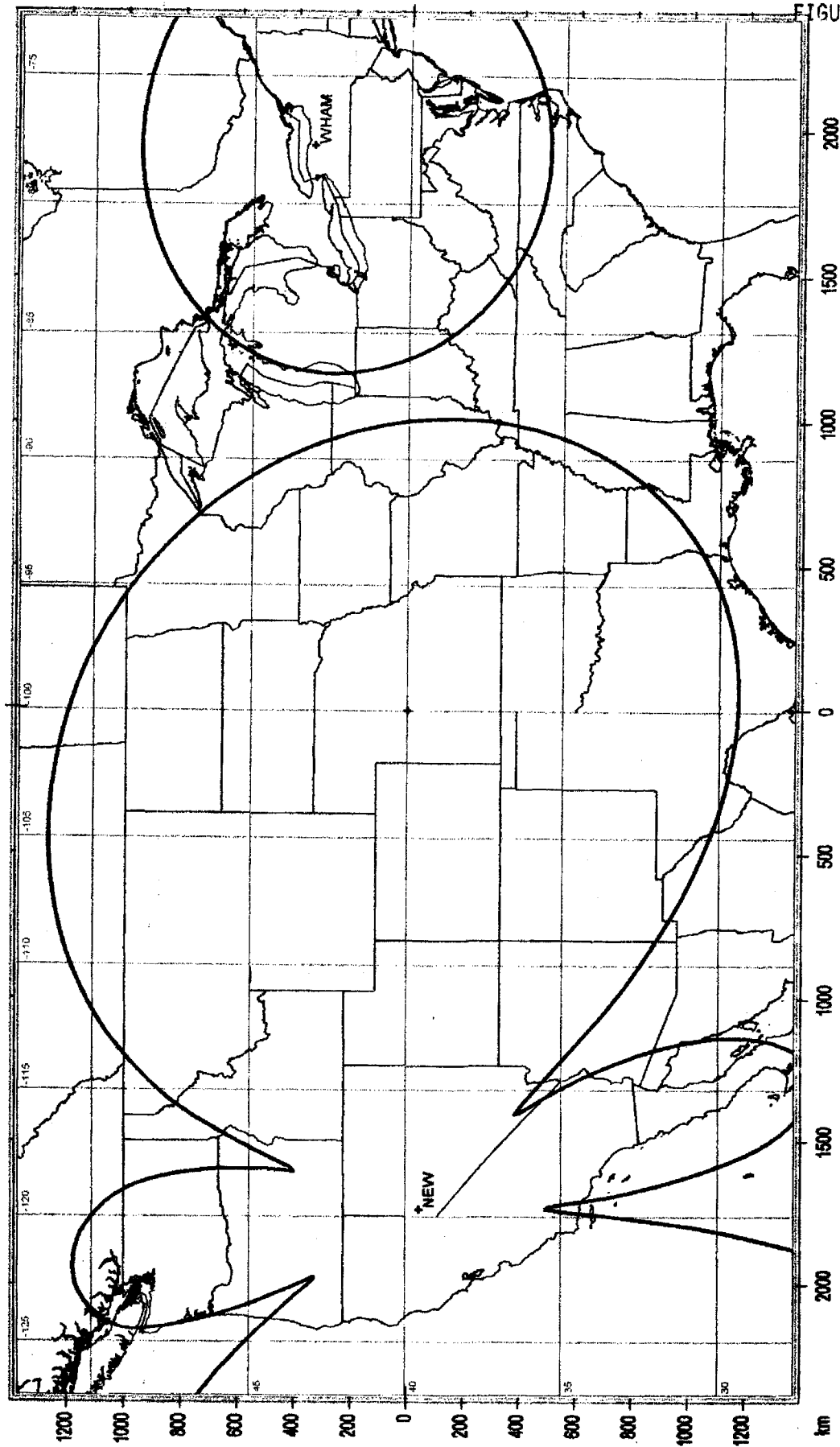


FIGURE 10B

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

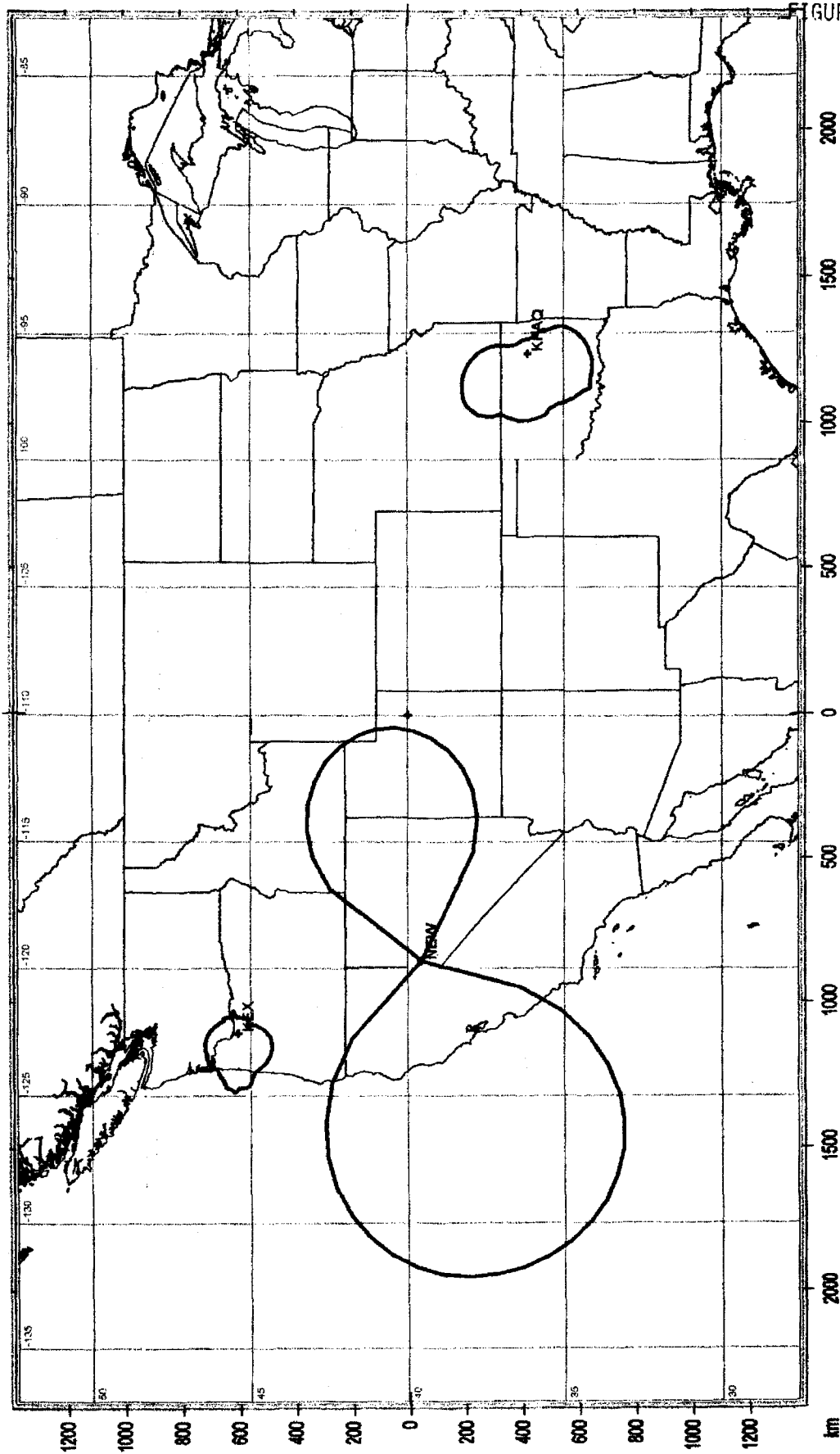


FIGURE 10C

KORL 50% &amp; 25% RSS.TXT

## AM Allocation Study

Coordinates : 21-26-18.0 N 157-59-29.0 W

Frequency : 1180

Initial FWR: 1.000

Initial Int Field: 297.50 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%
KERI 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	*2.500	0.625
NEW 1180 US		RENO	NV	4138.8	B	4143.7	34.8	252.3	660.1	0.0	0.0	660.1	0.004720	0.623	0.000	0.000
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	0.000

\*KORL is protected only to a 50% RSS of 2.5 mV/m and a 25% RSS of 0.625 mV/m. The proposed Reno, NV 1180 kHz facility does not enter into the KORL RSS.

## AM Allocation Study

Coordinates : 39-34-10.0 N 119-44-03.0 W  
Frequency : 1180  
Initial PWR: 1.000  
Initial Inv Field: 329.01 mV/m

SITE INFO	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	1054.5	B	1073.3	50.8	206.6	1675.6	5.4	10.4	1651.9	0.034722	11.472	11.472	11.472	11.472	11.472
KERI 1180 US	WASCO-GREENACRE	CA	446.0	B	488.8	44.3	355.5	116.7	16.9	27.2	114.4	0.139490	3.191	0.000	0.000	11.907	11.907
KVET 1180 US	WILLIAMS	AZ	820.6	B	844.7	44.8	307.9	143.2	8.1	14.4	141.2	0.060727	1.715	0.000	0.000	0.000	0.000
KEX 1190 US	PORTLAND	OR	690.8	A	719.1	48.8	159.4	924.0	10.2	17.5	874.5	0.073440	1.285	0.000	0.000	0.000	0.000

## Proposed Reno, NV 1180 Hz Night Pattern Tabulation.TXT

Callsign : NEW  
 Coordinates : 39-34-10.0 N, 119-44-03.0 W  
 Comments :  
 Frequency (KHz): 1180  
 Power (W): 1000.000  
 Pattern : AN  
 Efficiency : 329.014 mV/M  
 Desc : DAN  
 City/State : RENO, NV  
 ARN :  
 Licensee : EASTERN SIERRA BROADCASTING

Tower	Field	Phase	Spcng	Ornt	Hght	TopLd
1	0.580	169.5	90.0	75.0	77.7	0.0
2	1.000	0.0	0.0	0.0	77.7	0.0
3	0.600	190.5	90.0	255.0	77.7	0.0

Field Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m	Brng	mV/m
0	83.893	75	427.436	150	83.893	225	526.856	300	369.068
5	60.865	80	423.670	155	96.968	230	567.429	305	307.798
10	31.209	85	412.429	160	98.813	235	600.995	310	244.626
15	23.996	90	393.883	165	88.957	240	627.266	315	181.466
20	63.369	95	368.344	170	67.733	245	646.091	320	120.514
25	110.791	100	336.287	175	37.160	250	657.402	325	64.498
30	160.122	105	298.387	180	21.475	255	661.174	330	21.475
35	208.980	110	255.559	185	64.498	260	657.402	335	37.160
40	255.559	115	208.980	190	120.514	265	646.091	340	67.733
45	298.387	120	160.122	195	181.466	270	627.266	345	88.957
50	336.287	125	110.791	200	244.626	275	600.995	350	98.813
55	368.344	130	63.369	205	307.798	280	567.429	355	96.968
60	393.883	135	23.996	210	369.068	285	526.856		
65	412.429	140	31.209	215	426.820	290	479.749		
70	423.670	145	60.865	220	479.749	295	426.820		
0.0 ohm K		: 577.419		1.0 ohm K		: 517.993			
RMSs		: 345.918		RMst		: 329.014			
RSS		: 674.665							

0

