

Dataworld AM Detailed Individual Night Limit for Study Site (Contributor Records)

Title: Night Study 840 kHz

Frequency: 840 kHz

Database: FCC

Latitude: N 37° 42' 32.0"
Longitude: W 120° 43' 27.0"

Call	Auth	City	St	Freq (kHz)	Power (kW)	GC Dist. (km)	Slant Dist. (km)	----- Azimuth ----- To From (deg) (deg)		Mid-Pt Lat GC GeoMag (deg) (deg)		-----Theta----- Min Max (deg) (deg)		Horiz. Rad. (mV/m)	Max. V-Rad. (mV/m)	S.W. Mult. (uV/m)	Night Limit (mV/m)		RSS Limit (mV/m)
345	KSWB	Seaside			OR	6.4	11.9	173.9											
	KABN-029	Long Island			AK	.0	.0	450.9											
	KABN-029	Palmer			AK	.0	.0	455.4											
352	KNCO	Grass Valley			CA	40.0	54.3	161.9											
353	KHHO	Tacoma			WA	5.3	10.2	2520.4											
	KHHO	Tacoma			WA	5.3	10.2	2520.4											
	KHHO	Tacoma			WA	5.3	10.2	2520.4											
359	CKBX	One Hundred Mile Hou			Cn	3.5	3.5	839.7											

>> End of Permissible Radiation Limit Summary <<

**Cecil Lynch Engineers
Modesto, CA**

Page 12
Tuesday, August 27, 2002

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135	XETEX	Tepic			Mx	.0	.0	3047.8	329	KABN-291	Palmer		AK	.0	.0	471.3
	XEXXX	Tamazula De Gordiano			Mx	.0	.0	3879.4		KABN-291	Long Island		AK	.0	.0	524.7
145	KPLS	Orange			CA	14.8	24.2	1196.7	330	KABN-295	Long Island		AK	.0	.0	549.3
156	KACD	Thousand Oaks			CA	17.7	28.4	1252.0		KABN-295	Palmer		AK	.0	.0	551.1
	KACD	Thousand Oaks			CA	17.7	28.4	1252.0	331	KABN-302	Long Island		AK	.0	.0	524.1
216	-2000013	Del Rey Oaks			CA	47.0	60.6	16.2		KABN-303	Palmer		AK	.0	.0	531.5
249	KHLO	Hilo			HI	.0	.0	3057.3	332	KABN-306	Long Island		AK	.0	.0	546.7
254	KHVH	Honolulu			HI	.0	.0	5994.3		KABN-306	Palmer		AK	.0	.0	548.6
293	-2000020	Sonoma			CA	41.0	55.2	30.9	333	KABN-122	Long Island		AK	.0	.0	512.8
316	KABN-222	Palmer			AK	.0	.0	179.6		KABN-121	Palmer		AK	.0	.0	533.7
317	KABN-227	Palmer			AK	.0	.0	189.9	334	KABN-114	Long Island		AK	.0	.0	463.7
	KABN-228	Long Island			AK	.0	.0	194.3		KABN-112	Palmer		AK	.0	.0	473.5
	KSDP	Sand Point			AK	.0	.0	5912.8	335	KABN-112	Long Island		AK	.0	.0	434.3
318	KABN-226	Long Island			AK	.0	.0	202.1		KABN-111	Palmer		AK	.0	.0	455.3
	KABN-224	Palmer			AK	.0	.0	219.6	336	KABN-107	Long Island		AK	.0	.0	310.8
319	KABN-211	Long Island			AK	.0	.0	221.6		KABN-106	Palmer		AK	.0	.0	319.9
	KABN-211	Palmer			AK	.0	.0	233.4	337	KABN-107	Long Island		AK	.0	.0	211.9
320	KABN-224	Long Island			AK	.0	.0	253.8		KABN-106	Palmer		AK	.0	.0	218.8
	KABN-224	Palmer			AK	.0	.0	270.7	338	KABN-110	Palmer		AK	.0	.0	106.9
321	KABN-209	Long Island			AK	.0	.0	266.4		KABN-111	Long Island		AK	.0	.0	108.1
	KABN-209	Palmer			AK	.0	.0	281.2	339	KABN-108	Palmer		AK	.0	.0	109.4
322	KABN-207	Long Island			AK	.0	.0	296.9		KABN-109	Long Island		AK	.0	.0	110.5
	KABN-207	Palmer			AK	.0	.0	314.9	340	KABN-105	Palmer		AK	.0	.0	113.4
323	KABN-263	Long Island			AK	.0	.0	324.7		KABN-105	Long Island		AK	.0	.0	115.8
	KABN-263	Palmer			AK	.0	.0	339.1	341	KABN-101	Palmer		AK	.0	.0	119.5
324	KABN-265	Long Island			AK	.0	.0	331.0		KABN-101	Long Island		AK	.0	.0	122.0
	KABN-267	Palmer			AK	.0	.0	341.4		PORT ALI	Port Alice		Cn	3.8	3.8	520.1
325	KABN-270	Long Island			AK	.0	.0	352.7	342	KABN-049	Long Island		AK	.0	.0	496.5
	KABN-271	Palmer			AK	.0	.0	357.7		KABN-048	Palmer		AK	.0	.0	500.5
326	KABN-275	Long Island			AK	.0	.0	374.8	343	KABN-041	Long Island		AK	.0	.0	487.6
	KABN-276	Palmer			AK	.0	.0	380.1		KABN-040	Palmer		AK	.0	.0	490.1
327	KABN-280	Long Island			AK	.0	.0	400.4	344	KABN-034	Long Island		AK	.0	.0	468.8
	KABN-281	Palmer			AK	.0	.0	405.7		KABN-034	Palmer		AK	.0	.0	473.2
328	KABN-286	Long Island			AK	.0	.0	433.0								
	KABN-286	Palmer			AK	.0	.0	434.9								

Figure 9 - Page12 of 13

**Cecil Lynch Engineers
Modesto, CA**

Page 11
Tuesday, August 27, 2002

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82	WHAS-270	Louisville			KY	.0	1.5	230.3	98	WHAS-225	Louisville		KY	.0	.0	303.7
	KOA-226	Denver			CO	3.5	7.7	865.0		RCI-206	Radiocaribbe		St	.0	.0	8787.7
	WHAS-121	Louisville			KY	.0	.0	1105.3	99	WHAS-217	Louisville		KY	.0	.0	333.9
	KOA-134	Denver			CO	1.8	5.3	1205.9		4VEF-295	Petiteanse		Ha	.0	.0	5301.9
83	WHAS-268	Louisville			KY	.0	1.5	229.7	100	4VEF-279	Petiteanse		Ha	.0	.0	5311.2
	KOA-216	Denver			CO	3.4	7.5	882.9	101	CMLB	Victoria Tun		Cu	.0	.0	9525.4
	WHAS-124	Louisville			KY	.0	.0	1074.8	104	KXNT	North Las Vegas		NV	13.8	22.8	52.5
	KOA-145	Denver			CO	2.0	5.5	1161.1	105	YVMY-077	Barquisimeto		Ve	.0	.0	8012.6
84	WHAS-266	Louisville			KY	.0	1.5	229.5	106	YVMY-341	Barquisimeto		Ve	.0	.0	7099.0
	KOA-206	Denver			CO	3.2	7.3	907.5	107	ALAMOGOR	Alamogordo		NM	2.5	6.2	426.2
	WHAS-131	Louisville			KY	.0	.0	1090.5		HJBI-065	S Marta 3		Co	.0	.0	6698.0
	KOA-159	Denver			CO	2.3	5.9	1099.0		YVMY-302	Barquisimeto		Ve	.0	.0	7310.1
85	WHAS-265	Louisville			KY	.0	1.4	229.5	108	HJBI-078	S Marta 3		Co	.0	.0	6673.9
	KOA-193	Denver			CO	3.0	6.9	949.1		YVMY-294	Barquisimeto		Ve	.0	.0	7028.7
	WHAS-135	Louisville			KY	.0	.0	1043.4	109	HJBI-091	S Marta 3		Co	.0	.0	6562.2
86	WHAS-262	Louisville			KY	.0	1.4	230.2		YVMY-280	Barquisimeto		Ve	.0	.0	7195.2
	WHAS-141	Louisville			KY	.0	.0	1013.1	110	HJBI-033	S Marta 3		Co	.0	.0	6428.8
87	WHAS-260	Louisville			KY	.0	1.3	231.1		YVMY-244	Barquisimeto		Ve	.0	.0	7376.4
	WHAS-146	Louisville			KY	.0	.0	974.2	111	HJBI-246	S Marta 3		Co	.0	.0	6303.5
88	WHAS-258	Louisville			KY	.0	1.3	232.4	114	KVJY	Pharr		TX	.0	.0	1273.0
	WHAS-150	Louisville			KY	.0	.0	921.9	116	XENVA2	Ojinaga		Mx	2.3	2.3	1293.5
89	WHAS-255	Louisville			KY	.0	1.1	235.0		XECUC	Campeche		Mx	.0	.0	6026.0
	WHAS-153	Louisville			KY	.0	.0	857.4	119	HOL-8-27	Radio Libert		Pm	.0	.0	5927.6
90	WHAS-253	Louisville			KY	.0	1.1	237.2	120	XENVA2	Janos		Mx	4.8	4.8	550.4
91	WHAS-250	Louisville			KY	.0	.9	241.2		HOL-8-27	Radio Libert		Pm	.0	.0	4753.6
92	WHAS-247	Louisville			KY	.0	.8	245.9	121	KFLT	Tucson		AZ	5.4	10.4	1946.6
93	WHAS-245	Louisville			KY	.0	.7	249.6		HOL-8-25	Radio Libert		Pm	.0	.0	4411.1
94	WHAS-242	Louisville			KY	.0	.5	255.6	122	XEMY	Cd.mante		Mx	.0	.0	6679.8
95	WHAS-238	Louisville			KY	.0	.2	264.8		YSF	San Salvador		Es	.0	.0	7014.1
96	WHAS-234	Louisville			KY	.0	.0	275.4	123	XEIO1	Tuxtla Gutierrez		Mx	.0	.0	5193.4
97	WHAS-230	Louisville			KY	.0	.0	287.2	124	TGSM	Vozdesanmarc		Gt	.0	.0	5990.2
	WXEW	Yabucoa			PR	.0	.0	4232.4	126	XENVA2	Nogales		Mx	7.0	7.0	346.8
	WXEW	Yabucoa			PR	.0	.0	4232.4	128	XEFS1	Izucar De Matamoros		Mx	.0	.0	5704.5
	RCI-020	Radiocaribbe			St	.0	.0	8774.8	129	XEFG1	Celaya		Mx	.0	.0	5531.0
									132	XEUAG1	Chilpancingo		Mx	.0	.0	4858.1

Figure 9 - Page11 of 13

**Cecil Lynch Engineers
Modesto, CA**

Page 10
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0	-2000012	Modesto	CA	.0			.0	.0		74	WHAS-288	Louisville			KY	.0	1.3	253.5
											KOA-288	Denver			CO	3.7	7.9	854.9
4	GRANDE P	Grande Prairie			Cn	1.3	1.3	1077.0			WHAS-086	Louisville			KY	.0	.0	1136.5
	GRANDE P	Grande Prairie			Cn	1.2	1.2	1095.5			KOA-061	Denver			CO	1.6	5.0	1310.7
11	MILTON	Milton			OR	6.6	12.2	1954.2		75	WHAS-286	Louisville			KY	.0	1.4	249.3
14	KMAX	Colfax			WA	5.3	10.3	483.4			KOA-279	Denver			CO	3.7	7.9	846.4
22	COLUMBIA	Columbia Falls			MT	3.4	7.5	636.4			WHAS-087	Louisville			KY	.0	.0	1141.3
40	WEYBURN	Weyburn			Cn	1.5	1.5	1610.0			KOA-069	Denver			CO	1.6	4.9	1320.3
43	ESTEVAN	Estevan			Cn	1.4	1.4	1620.3		76	WHAS-284	Louisville			KY	.0	1.4	245.5
61	WCCO-000	Minneapolis			MN	.0	.2	3666.7			KOA-270	Denver			CO	3.7	7.9	842.7
62	WHAS-342	Louisville			KY	.0	.0	530.0			WHAS-091	Louisville			KY	.0	.0	1166.4
63	WHAS-331	Louisville			KY	.0	.0	448.2			KOA-084	Denver			CO	1.5	4.9	1323.3
64	WHAS-324	Louisville			KY	.0	.0	402.7		77	WHAS-281	Louisville			KY	.0	1.5	240.6
65	WHAS-318	Louisville			KY	.0	.0	367.9			KOA-264	Denver			CO	3.7	7.9	842.2
66	WHAS-313	Louisville			KY	.0	.3	342.0			WHAS-098	Louisville			KY	.0	.0	1167.4
67	WHAS-309	Louisville			KY	.0	.5	323.2			KOA-091	Denver			CO	1.5	4.9	1318.0
68	WHAS-306	Louisville			KY	.0	.6	310.3		78	WHAS-279	Louisville			KY	.0	1.5	237.8
69	WHAS-302	Louisville			KY	.0	.8	294.7			KOA-261	Denver			CO	3.7	7.9	842.3
70	WHAS-299	Louisville			KY	.0	.9	284.1			WHAS-102	Louisville			KY	.0	.0	1120.4
	KOA-338	Denver			CO	3.0	6.9	985.1			KOA-099	Denver			CO	1.5	4.9	1306.9
71	WHAS-296	Louisville			KY	.0	1.0	274.4		79	WHAS-277	Louisville			KY	.0	1.5	235.5
	WHAS-298	Louisville			KY	.0	1.0	280.7			KOA-252	Denver			CO	3.7	7.9	843.2
	KOA-316	Denver			CO	3.4	7.5	909.1			WHAS-106	Louisville			KY	.0	.0	1059.0
	KOA-325	Denver			CO	3.2	7.3	938.7			KOA-107	Denver			CO	1.6	4.9	1290.9
72	WHAS-294	Louisville			KY	.0	1.1	268.6		80	WHAS-274	Louisville			KY	.0	1.5	232.7
	KOA-306	Denver			CO	3.5	7.7	883.8			KOA-243	Denver			CO	3.6	7.9	846.0
	WHAS-077	Louisville			KY	.0	.0	1147.8			WHAS-108	Louisville			KY	.0	.0	1045.8
	KOA-029	Denver			CO	2.2	5.7	1175.1			KOA-116	Denver			CO	1.6	5.0	1267.4
73	WHAS-291	Louisville			KY	.0	1.2	260.6		81	WHAS-272	Louisville			KY	.0	1.5	231.3
	KOA-297	Denver			CO	3.6	7.8	867.7			KOA-235	Denver			CO	3.6	7.8	852.8
	WHAS-080	Louisville			KY	.0	.0	1143.4			WHAS-114	Louisville			KY	.0	.0	1065.4
	KOA-044	Denver			CO	2.0	5.5	1223.1			KOA-124	Denver			CO	1.7	5.1	1242.2

**Cecil Lynch Engineers
Modesto, CA**

Page 9
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						Dist. (km)	Dist. (km)	To (deg)	From (deg)	GC (deg)	GeoMag (deg)	Min (deg)	Max (deg)	Rad. (mV/m)	V-Rad. (mV/m)	Mult. (uV/m)	Limit (mV/m)	
-2000020	APP	Norcross	GA	830	3.800	3294.8	3300.9	86.1	288.0	37.2	46.6	.0	.0	53.3	53.3	4.47	.005	
CKRD		Red Deer	Cn	850	5.000	1683.2	1695.0	16.7	201.7	44.9	51.7	1.1	4.3	17.2	17.2	13.68	.005	
CHUR		North Bay	Cn	840	10.000	3494.0	3499.7	61.0	269.3	43.8	53.1	.0	.0	9.6	9.6	2.25	.004	
RIVIERE-		Riviere-du-loup	Cn	840	2.500	4234.1	4238.8	57.9	274.0	45.7	55.4	.0	.0	19.8	19.8	.96	.004	
WRYM	LIC	New Britain	CT	840	.125	4076.3	4081.2	68.3	280.1	42.3	52.1	.0	.0	10.9	10.9	1.69	.004	
AMHERST		Amherst	Cn	840	5.000	4665.3	4669.6	60.2	279.7	45.4	55.5	.0	.0	24.2	24.2	.71	.003	
AMHERST		Amherst	Cn	840	5.000	4665.3	4669.6	60.2	279.7	45.4	55.5	.0	.0	24.2	24.2	.71	.003	
WDJA	LIC	West Palm Beach	FL	850	1.000	3982.4	3987.4	95.9	298.3	33.8	43.6	.0	.0	47.0	47.0	3.43	.003	
WDJA	LIC	West Palm Beach	FL	850	1.000	3982.4	3987.5	95.9	298.3	33.8	43.6	.0	.0	47.0	47.0	3.43	.003	
WYLF	LIC	Penn Yan	NY	850	.045	3702.7	3708.1	67.5	276.4	42.3	51.8	.0	.0	61.8	61.8	2.23	.003	
CKVL		Verdun	Cn	850	10.000	3954.9	3960.0	62.2	274.6	44.0	53.7	.0	.0	88.9	88.9	1.51	.003	
KEYH	LIC	Houston	TX	850	.180	2475.1	2483.2	103.8	297.8	34.3	42.9	.0	.0	11.1	11.1	9.48	.002	
CKVL		Verdun	Cn	850	35.000	3954.9	3960.0	62.2	274.6	44.0	53.7	.0	.0	66.7	66.7	1.51	.002	
CHRO		Timmins	Cn	850	10.000	3366.4	3372.3	56.5	264.1	44.8	53.9	.0	.0	42.0	42.0	2.27	.002	
-2000012	APP	Dunwoody	GA	830	1.000	3280.1	3286.2	86.1	287.9	37.2	46.5	.0	.0	20.8	20.8	4.51	.002	
-2000012	APP	Dunwoody	GA	830	1.000	3311.0	3317.1	86.2	288.1	37.2	46.5	.0	.0	21.1	21.1	4.42	.002	
-2000012	APP	Charleston	SC	830	1.000	3703.2	3708.6	86.1	290.2	37.0	46.6	.0	.0	23.5	23.5	3.42	.002	
CHVO		Spaniard's Bay	Cn	850	5.000	5446.0	5449.7	55.5	284.4	47.9	58.4	.0	.0	300.6	300.6	.23	.001	
CKVL	APP	Montreal	Cn	850	10.000	3954.9	3960.0	62.2	274.6	44.0	53.7	.0	.0	37.0	37.0	1.51	.001	
-2000020	APP	Oneida	WI	850	.180	2807.1	2814.2	64.0	265.8	42.3	51.1	.0	.0	11.0	11.0	4.71	.001	
CFJR		Brockville	Cn	830	1.000	3788.7	3794.0	63.8	274.3	43.4	52.9	.0	.0	18.0	18.0	1.85	.001	
BL-	DEL	Lorring	ME	830	1.000	4372.9	4377.5	59.0	276.1	45.5	55.4	.0	.0	13.6	13.6	.88	.000	
-2000012	APP	Modesto	CA	840	1.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.00	.000	

>> End of Detailed Night Limit Study <<

**Cecil Lynch Engineers
Modesto, CA**

Page 8
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								To (deg)	From (deg)	GC (deg)	GeoMag (deg)	Min (deg)	Max (deg)					
XENVA2		Manuel Benavides	Mx	830	.100	1795.2	1806.3	117.1	306.2	33.7	41.7	.5	3.5	96.9	96.9	17.74	.034	
XENVA2		Boquillas Carmen	Mx	850	.100	1895.8	1906.3	114.5	304.4	33.8	41.9	.1	2.9	95.9	95.9	16.04	.031	
XEVQ		Culiacan	Mx	830	.100	1906.7	1917.1	134.8	321.8	31.4	39.2	.0	2.8	90.5	90.5	16.95	.031	
XELN		Linares	Mx	830	.250	2456.2	2464.4	119.4	310.6	31.7	40.1	.0	.0	147.2	147.2	10.36	.031	
NORTH BA		North Battleford	Cn	830	1.000	1924.1	1934.4	26.2	215.2	45.4	52.6	.0	2.7	135.4	135.4	9.77	.026	
HRVQ		Juticalpa 3	Ho	830	1.000	4247.6	4252.3	117.7	313.6	27.2	36.7	.0	.0	317.3	317.3	4.12	.026	
XEMIA		San Pedro Tlaque	Mx	850	.250	2532.1	2540.0	133.7	322.3	29.5	37.6	.0	.0	117.4	117.4	10.85	.025	
CILW		Wainwright	Cn	830	3.500	1847.8	1858.6	21.4	208.6	45.4	52.4	.3	3.2	115.5	115.7	10.79	.025	
CKKY		Wainwright	Cn	830	3.500	1847.8	1858.6	21.4	208.6	45.4	52.4	.3	3.2	115.5	115.7	10.79	.025	
XE		San Diego	Mx	830	.250	2932.9	2939.7	124.4	315.9	29.6	38.2	.0	.0	140.6	140.6	8.05	.023	
CMFB		Cienfuegos	Cu	830	1.000	4209.1	4213.9	102.6	303.5	31.5	41.3	.0	.0	317.3	317.3	3.37	.021	
VICTORIA		Victoria	Cn	830	10.000	1206.5	1223.0	350.9	169.1	43.1	49.2	4.1	8.5	35.9	35.8	29.17	.021	
VICTORIA		Victoria	Cn	830	10.000	1206.5	1223.0	350.9	169.1	43.1	49.2	4.1	8.5	35.9	35.8	29.17	.021	
CMGB		Trinidad	Cu	850	1.000	4271.4	4276.0	102.7	303.8	31.3	41.1	.0	.0	309.5	309.5	3.28	.020	
HIJB		S Domingo 10	Dr	830	2.500	5342.0	5345.8	98.8	304.4	30.6	41.0	.0	.0	489.3	489.3	1.99	.019	
CORPUS C ???		Corpus Christi	TX	830	1.000	2434.9	2443.1	110.1	302.9	33.3	41.8	.0	.1	81.1	81.1	10.11	.016	
CMJB		Mayari Arrib	Cu	850	1.000	4741.1	4745.3	100.9	304.0	31.0	41.1	.0	.0	309.5	309.5	2.60	.016	
XEDQ1		San Andres Tuxtli	Mx	830	.150	3275.9	3282.0	123.8	316.1	28.7	37.5	.0	.0	118.3	118.3	6.71	.016	
CHUR		North Bay	Cn	840	10.000	3494.0	3499.7	61.0	269.3	43.8	53.1	.0	.0	34.5	34.5	2.25	.016	
WXEW	LIC	Yabucoa	PR	840	1.000	5725.8	5729.3	96.6	304.2	30.8	41.3	.0	.0	41.8	41.8	1.66	.014	
-2000012	APP	Union City	GA	830	.250	3278.1	3284.2	87.0	288.5	37.0	46.3	.0	.0	132.3	132.3	4.58	.012	
KMUL	CP	Farwell	TX	830	.009	1594.6	1607.1	97.7	288.0	36.4	44.4	1.6	4.9	26.8	26.7	20.61	.011	
KMUL	CP	Farwell	TX	830	.009	1615.7	1628.0	97.8	288.2	36.4	44.4	1.4	4.8	26.8	26.7	20.15	.011	
WABA	LIC	Aguadilla	PR	850	1.000	5590.6	5594.2	97.1	304.2	30.8	41.3	.0	.0	283.2	283.2	1.76	.010	
-2000012	APP	Suw Anee	GA	830	.490	3305.0	3311.1	85.8	287.7	37.3	46.6	.0	.0	112.2	112.2	4.41	.010	
-2000012	APP	Bunnell	FL	830	.250	3736.3	3741.7	92.3	294.8	35.2	44.8	.0	.0	113.3	113.3	3.72	.008	
CHUR		North Bay	Cn	840	10.000	3494.0	3499.7	61.0	269.3	43.8	53.1	.0	.0	18.5	18.5	2.25	.008	
-2000012	APP	Orange Park	FL	830	4.500	3650.3	3655.8	90.9	293.4	35.7	45.2	.0	.0	102.9	102.9	3.83	.008	
-2000012	APP	Orange Park	FL	830	4.500	3656.7	3662.1	91.5	293.9	35.5	45.0	.0	.0	99.3	99.3	3.85	.008	
CKCW		Moncton	Cn	840	20.000	4612.3	4616.6	60.0	279.0	45.4	55.5	.0	.0	49.3	49.3	.74	.007	
CKCW		Moncton	Cn	840	20.000	4612.3	4616.6	60.0	279.0	45.4	55.5	.0	.0	49.3	49.3	.74	.007	
-2000012	APP	Bremen	GA	830	.400	3221.6	3227.8	87.0	288.2	37.1	46.3	.0	.0	62.5	62.5	4.76	.006	
-2000020	APP	Sandy Springs	GA	830	3.700	3282.8	3288.9	86.0	287.8	37.3	46.6	.0	.0	54.3	54.3	4.49	.005	
-2001090	APP	Sandy Springs	GA	830	3.700	3284.6	3290.7	86.0	287.8	37.3	46.6	.0	.0	54.3	54.3	4.49	.005	

Figure 9 - Page8 of 13

**Cecil Lynch Engineers
Modesto, CA**

Page 7
Tuesday, August 27, 2002

Dataworld AM Detailed Individual Night Limit for Study Site (Contributor Records)

Title: Night Study 840 kHz

Frequency: 840 kHz

Database: FCC

Latitude: N 37° 42' 32.0"
Longitude: W 120° 43' 27.0"

Call	Auth	City	St	Freq (kHz)	Power (kW)	GC Dist. (km)	Slant Dist. (km)	----- Azimuth -----		Mid-Pt Lat		-----Theta-----		Horiz. Rad. (mV/m)	Max. V-Rad. (mV/m)	S.W. Mult. (uV/m)	Night Limit (mV/m)	RSS Limit (mV/m)
								To (deg)	From (deg)	GC (deg)	GeoMag (deg)	Min (deg)	Max (deg)					
GRANDE P		Grande Prairie	Cn	840	10.000	1943.4	1953.7	3.9	185.4	46.4	52.8	.0	2.6	124.1	124.1	9.38	.233	
BELIZE C		Belize City	Bh	830	50.000	3880.7	3885.9	116.3	312.0	28.6	37.9	.0	.0	2188.2	2188.2	4.69	.205	
XENVA2		Sonoita	Mx	850	.500	975.9	996.1	129.5	314.1	34.8	42.1	6.2	11.6	214.4	212.6	48.14	.205	
XEFG		Celaya	Mx	840	.100	2709.9	2717.3	129.3	319.2	29.5	37.8	.0	.0	88.3	88.3	9.48	.167	
XEPV		Papantla	Mx	840	.130	2960.2	2966.9	123.8	315.5	29.6	38.2	.0	.0	96.0	96.0	7.90	.152	
4VEF		Petiteanse	Ha	840	1.000	5072.2	5076.2	99.2	303.9	31.0	41.2	.0	.0	289.1	289.1	2.22	.128	
XEIO		Tuxtla Gutierrez	Mx	840	.100	3566.6	3572.2	123.3	316.3	27.9	36.9	.0	.0	96.8	96.8	5.82	.113	
XENVA2		Cd.juarez	Mx	830	.500	1458.5	1472.1	112.8	301.0	34.9	42.7	2.3	6.0	216.0	215.7	24.96	.108	
XEUS		Hermosillo	Mx	850	.200	1317.5	1332.6	133.8	319.2	33.5	40.9	3.3	7.3	173.6	173.2	30.35	.105	
HJKC		Bogota 18	Co	850	50.000	6012.5	6015.8	116.6	314.8	22.6	32.8	.0	.0	2188.2	2188.2	2.36	.103	
XELA		La Magdalena Atl	Mx	830	5.000	2920.3	2927.1	128.3	318.8	29.0	37.5	.0	.0	612.2	612.2	8.36	.102	
XENVA2		San Felipe	Mx	830	.100	914.8	936.4	142.1	325.5	34.4	41.5	6.9	12.6	96.6	95.6	53.34	.102	
XEM1		Chihuahua	Mx	850	.500	1685.0	1696.8	122.2	310.3	33.4	41.2	1.1	4.3	249.1	249.0	19.99	.100	
XEVQ1		Culiacan	Mx	830	1.000	1906.7	1917.1	134.8	321.8	31.4	39.2	.0	2.8	286.2	286.2	16.95	.097	
HRUP		Tegucigalpa	Ho	850	10.000	4220.7	4225.4	119.4	314.7	26.9	36.3	.0	.0	978.6	978.6	4.26	.083	
XEDR1		Guaymas	Mx	830	.250	1420.3	1434.3	137.2	322.5	32.9	40.4	2.6	6.3	152.7	152.5	27.02	.082	
YVLC		Valencia 1	Ve	850	50.000	6068.0	6071.3	106.0	309.4	26.3	36.9	.0	.0	2188.2	2188.2	1.88	.082	
TGAX		Satellite	Gt	830	5.000	3861.5	3866.7	124.0	317.3	26.9	36.0	.0	.0	692.0	692.0	5.17	.072	
TIOS		S Jose 7	Cs	850	10.000	4851.9	4856.0	121.4	316.8	24.5	34.2	.0	.0	978.9	978.9	3.51	.069	
HIAB		Puerto Plata	Dr	840	.250	5198.1	5202.0	98.0	303.6	31.2	41.5	.0	.0	154.7	154.7	2.07	.064	
HAZLETON		Hazleton	Cn	830	10.000	2012.8	2022.7	347.4	162.4	46.5	52.2	.0	2.2	339.6	340.7	9.08	.062	
XEMOS		Los Mochis	Mx	850	.250	1725.1	1736.6	136.8	323.1	31.9	39.5	.9	4.0	152.2	152.1	19.93	.061	
XELK		Zacatecas	Mx	830	.500	2395.5	2403.9	128.7	318.0	30.6	38.7	.0	.3	252.1	252.1	11.48	.058	
YSPX		San Miguel	Es	830	4.000	4192.1	4196.9	121.2	315.9	26.5	35.9	.0	.0	618.9	618.9	4.40	.054	
XETQ1		Orizaba	Mx	850	50.000	3106.9	3113.3	125.8	317.3	28.8	37.5	.0	.0	352.4	352.4	7.43	.052	
XETQ		Orizaba	Mx	850	50.000	3105.1	3111.5	125.9	317.4	28.8	37.4	.0	.0	350.9	350.9	7.45	.052	
XEMIA1		San Pedro Tlaque	Mx	850	1.000	2532.1	2540.0	133.7	322.3	29.5	37.6	.0	.0	234.8	234.8	10.85	.051	
KHHO	LIC	Tacoma	WA	850	1.000	1067.5	1086.1	353.2	172.1	42.5	48.7	5.3	10.2	67.0	66.7	36.69	.049	
KHHO	SMV	Tacoma	WA	850	1.000	1067.5	1086.1	353.2	172.1	42.5	48.7	5.3	10.2	67.0	66.7	36.69	.049	
XEM		Chihuahua	Mx	850	.100	1685.0	1696.8	122.2	310.3	33.4	41.2	1.1	4.3	111.4	111.4	19.99	.045	
HOB 56		Rad Peninsul	Pm	830	5.000	5283.5	5287.3	119.8	316.2	23.7	33.5	.0	.0	692.0	692.0	3.01	.042	
XENVA2		Matamoros	Mx	850	.500	2548.1	2555.9	114.4	306.8	32.3	40.9	.0	.0	214.4	214.4	9.50	.041	
XEZR		Zaragoza	Mx	850	.250	2105.8	2115.3	113.3	304.3	33.5	41.7	.0	1.7	151.7	151.7	13.29	.040	
YNR4		Reloj Nacion	Nu	850	3.000	4524.7	4529.1	119.5	315.3	26.0	35.5	.0	.0	454.2	454.2	3.82	.035	

Figure 9 - Page7 of 13

**Cecil Lynch Engineers
Modesto, CA**

Page 6
Tuesday, August 27, 2002

Dataworld AM Detailed Individual Night Limit for Study Site (Contributor Records)

Title: Night Study 840 kHz

Frequency: 840 kHz

Database: FCC

Latitude: N 37° 42' 32.0"
Longitude: W 120° 43' 27.0"

Call	Auth	City	St	Freq (kHz)	Power (kW)	GC Dist. (km)	Slant Dist. (km)	----- Azimuth -----		Mid-Pt Lat		-----Theta-----		Horiz. Rad. (mV/m)	Max. V-Rad. (mV/m)	S.W. Mult. (uV/m)	Night Limit (mV/m)	RSS Limit (mV/m)
								To (deg)	From (deg)	GC (deg)	GeoMag (deg)	Min (deg)	Max (deg)					
-2000013	APP	Del Rey Oaks	CA	840	5.000	133.0	240.2	215.6	35.0	37.2	43.6	47.0	60.6	55.3	68.6	368.65	5.057	
-2000020	APP	Sonoma	CA	840	.250	163.7	258.4	293.3	112.2	38.0	44.3	41.0	55.2	50.9	51.1	335.85	3.432	
COLUMBIA	???	Columbia Falls	MT	840	1.000	1297.5	1312.8	22.0	206.5	43.1	49.9	3.4	7.5	466.9	465.7	24.84	2.314	
KKNX	LIC	Eugene	OR	840	.170	736.2	762.9	345.0	163.4	40.9	47.1	9.4	16.3	133.5	130.0	68.98	1.793	
XENVA2		Nogales	Mx	840	.500	1140.8	1158.2	125.6	311.2	34.6	42.0	4.6	9.3	221.8	220.8	37.77	1.668	
XENVA2		Janos	Mx	840	.500	1375.9	1390.3	119.6	306.7	34.5	42.1	2.9	6.7	221.8	221.4	27.81	1.232	
YVMY		Barquisimeto	Ve	840	50.000	5962.7	5966.1	107.2	309.8	26.1	36.6	.0	.0	2188.2	2188.2	1.99	.869	
ALAMOGOR	???	Alamogordo	NM	840	1.000	1441.1	1454.9	107.3	295.9	35.5	43.3	2.5	6.2	160.7	163.3	25.18	.822	
PORT ALI		Port Alice	Cn	840	.500	1506.6	1519.8	341.4	156.7	44.1	49.9	2.1	5.6	216.2	216.0	18.85	.814	
XENVA2		Ojinaga	Mx	840	.500	1758.1	1769.5	116.2	305.3	33.9	41.9	.7	3.8	221.8	221.8	18.35	.814	
CMOB		Isla Juventu	Cu	840	10.000	4039.4	4044.3	105.2	304.8	31.1	40.7	.0	.0	978.6	978.6	3.76	.736	
WEYBURN		Weyburn	Cn	840	2.500	1893.4	1903.9	40.2	232.1	44.0	51.6	.1	2.9	325.0	325.0	10.84	.704	
CKBX		One Hundred Mile	Cn	840	.500	1552.8	1565.6	358.5	178.1	44.7	50.9	1.8	5.2	200.1	200.0	16.85	.674	
ESTEVAN		Estevan	Cn	840	2.500	1906.8	1917.2	42.8	235.1	43.7	51.4	.0	2.8	299.5	299.5	10.79	.646	
YSF		San Salvador	Es	840	5.000	4093.6	4098.5	122.2	316.4	26.6	35.8	.0	.0	692.0	692.0	4.62	.640	
XEXXX		Tamazula De Gord	Mx	840	1.000	2623.0	2630.6	135.1	323.6	29.0	37.1	.0	.0	293.5	293.5	10.36	.608	
HOL-82		Radio Libert	Pm	840	10.000	5208.2	5212.0	116.7	314.3	24.8	34.8	.0	.0	978.6	978.6	2.94	.576	
CMLB		Victoria Tun	Cu	840	10.000	4582.8	4587.2	101.3	303.8	31.2	41.2	.0	.0	978.6	978.6	2.80	.548	
YNRN		Radio Notici	Nu	840	5.000	4448.5	4453.0	120.6	315.9	25.9	35.4	.0	.0	575.0	575.0	3.98	.458	
MILTON	???	Milton	OR	830	1.000	934.6	955.8	11.2	192.8	41.8	48.4	6.6	12.2	494.1	489.4	46.20	.452	
KABN	APP	Palmer	AK	840	10.000	3314.6	3320.7	332.2	129.4	50.5	54.5	.0	.0	1001.5	1001.5	2.19	.438	
GRANDE P		Grande Prairie	Cn	840	10.000	1933.3	1943.6	3.6	184.9	46.4	52.8	.0	2.7	205.2	205.2	9.52	.391	
RCI		Radiocaribbe	St	840	20.000	6410.1	6413.2	97.3	306.0	29.2	40.0	.0	.0	1384.0	1384.0	1.35	.375	
KACD	SMV	Thousand Oaks	CA	850	.250	425.5	470.2	155.8	336.9	36.0	42.6	17.7	28.4	134.3	126.4	147.85	.374	
XETEX		Tepic	Mx	840	.250	2352.9	2361.4	135.4	323.4	29.8	37.9	.0	.5	150.6	150.6	12.28	.370	
XEEG1		Celaya	Mx	840	.500	2709.5	2716.9	129.2	319.1	29.5	37.8	.0	.0	188.9	188.9	9.48	.358	
XEIO1		Tuxtla Gutierrez	Mx	840	1.000	3566.6	3572.2	123.3	316.3	27.9	36.9	.0	.0	306.2	306.2	5.82	.357	
XEUAG1		Chilpancingo	Mx	840	.500	3053.8	3060.4	131.5	321.6	28.0	36.5	.0	.0	216.1	216.1	7.99	.345	
HJBI		S Marta 3	Co	840	5.000	5478.3	5481.9	110.0	310.7	26.3	36.5	.0	.0	689.1	689.1	2.41	.332	
TGSM		Vozdesanmarc	Gt	840	1.000	3804.2	3809.5	123.8	317.1	27.1	36.2	.0	.0	309.5	309.5	5.29	.327	
XEMY		Cd.mante	Mx	840	.500	2655.6	2663.1	122.4	313.5	30.7	39.2	.0	.0	167.9	167.9	9.30	.312	
HRQW		Pto De Tela	Ho	840	1.000	4075.1	4080.0	117.9	313.4	27.7	37.0	.0	.0	309.5	309.5	4.42	.273	
XECUC		Campeche	Mx	840	1.000	3526.2	3531.9	115.8	310.8	29.6	38.7	.0	.0	238.3	238.3	5.46	.260	
XEFS1		Izucar De Matamo	Mx	840	.250	3028.4	3035.0	128.4	319.1	28.6	37.2	.0	.0	152.2	152.2	7.90	.240	

Figure 9 - Page6 of 13

Cecil Lynch Engineers
Modesto, CA

Page 5
Tuesday, August 27, 2002

Dataworld AM Detailed Individual Night Limit for Study Site (Contributor Records)

Title: Night Study 840 kHz

Frequency: 840 kHz

Database: FCC

Latitude: N 37° 42' 32.0"
Longitude: W 120° 43' 27.0"

Call	Auth	City	St	Freq (kHz)	Power (kW)	GC Dist. (km)	Slant Dist. (km)	----- Azimuth -----		Mid-Pt Lat		-----Theta-----		Horiz. Rad. (mV/m)	Max. V-Rad. (mV/m)	S.W. Mult. (uV/m)	Night Limit (mV/m)	(%)	RSS Limit (mV/m)
								To (deg)	From (deg)	GC (deg)	GeoMag (deg)	Min (deg)	Max (deg)						
WKNR	LIC	Cleveland	OH	850	4.700	3340.3	3346.2	70.7	276.1	41.2	50.5	.0	.0	40.3	40.3	3.28	.003	0.0	8.004
WRUF	LIC	Gainesville	FL	850	5.000	3628.7	3634.2	92.8	294.6	35.2	44.7	.0	.0	33.0	33.0	3.99	.003	0.0	8.004
WFNO	LIC	Norco	LA	830	.750	2913.0	2919.8	97.9	295.1	34.8	43.8	.0	.0	19.1	19.1	6.63	.003	0.0	8.004
WCRN	LIC	Worcester	MA	830	5.000	4130.6	4135.4	67.2	279.8	42.6	52.5	.0	.0	76.7	76.7	1.56	.002	0.0	8.004
WEEU	LIC	Reading	PA	830	6.000	3819.2	3824.4	71.1	280.1	41.3	51.0	.0	.0	42.3	42.3	2.25	.002	0.0	8.004
WSPO	LIC	Johnstown	PA	850	10.000	3594.5	3600.0	72.3	279.4	40.9	50.4	.0	.0	33.6	33.6	2.77	.002	0.0	8.004
WYDE	LIC	Birmingham	AL	850	1.000	3085.4	3091.9	88.1	288.3	36.9	46.0	.0	.0	15.2	15.2	5.30	.002	0.0	8.004
WGVS	LIC	Muskegon	MI	850	1.000	2956.8	2963.6	67.3	270.0	41.7	50.7	.0	.0	17.2	17.2	4.30	.001	0.0	8.004
CHVO		Spaniard's Bay	Cn	850	5.000	5446.0	5449.7	55.5	284.4	47.9	58.4	.0	.0	300.6	300.6	.23	.001	0.0	8.004
CKVL		Verdun	Cn	850	10.000	3954.9	3960.0	62.2	274.6	44.0	53.7	.0	.0	37.0	37.0	1.51	.001	0.0	8.004
CFJR		Brockville	Cn	830	1.000	3788.7	3794.0	63.8	274.3	43.4	52.9	.0	.0	20.9	20.9	1.85	.001	0.0	8.004

**Cecil Lynch Engineers
Modesto, CA**

Page 4
Tuesday, August 27, 2002

Dataworld AM Detailed Individual Night Limit for Study Site (Contributor Records)

Title: Night Study 840 kHz

Frequency: 840 kHz

Database: FCC

Latitude: N 37° 42' 32.0"

Longitude: W 120° 43' 27.0"

Call	Auth	City	St	Freq (kHz)	Power (kW)	GC Dist. (km)	Slant Dist. (km)	----- Azimuth ----- To From (deg) (deg)	Mid-Pt Lat GC GeoMag (deg) (deg)	-----Theta----- Min Max (deg) (deg)	Horiz. Rad. (mV/m)	Max. V-Rad. (mV/m)	S.W. Mult. (uV/m)	Night Limit (mV/m)	(%)	RSS Limit (mV/m)
KXNT	LIC	North Las Vegas	NV	840	25.000	535.5	571.6	104.0 287.5	37.1 44.1	13.8 22.8	529.1	303.4	111.10	6.742	100.0	6.742
----- 50% Exclusion -----																
WHAS	LIC	Louisville	KY	840	50.000	3074.6	3081.1	77.8 280.0	39.3 48.5	.0 .0	2913.3	2913.3	4.63	2.697	40.0	7.261
KNCO	LIC	Grass Valley	CA	830	5.000	169.3	262.1	351.5 171.4	38.5 44.9	40.0 54.3	382.7	313.1	330.35	2.069	28.5	7.550
----- 25% Exclusion -----																
KSWB	LIC	Seaside	OR	840	.500	956.8	977.5	345.0 162.9	41.9 48.0	6.4 11.9	201.4	199.8	44.96	1.797	23.8	7.761
KOA	LIC	Denver	CO	850	50.000	1398.9	1413.1	76.9 266.9	38.9 46.6	2.7 6.5	2560.4	2543.2	24.43	1.243	16.0	7.860
KMAX	LIC	Colfax	WA	840	.280	1060.6	1079.3	14.1 196.4	42.3 49.0	5.3 10.3	166.8	165.6	36.79	1.219	15.5	7.954
KVJY	LIC	Pharr	TX	840	1.000	2470.2	2478.3	114.3 306.4	32.5 41.0	.0 .0	253.5	253.5	10.04	.509	6.4	7.970
KABN	LIC	Long Island	AK	840	10.000	3318.9	3324.9	332.4 129.6	50.5 54.5	.0 .0	972.0	972.0	2.17	.422	5.3	7.981
WCCO	LIC	Minneapolis	MN	830	50.000	2413.8	2422.1	61.2 259.5	42.3 50.7	.0 .2	2833.6	2833.6	6.82	.386	4.8	7.990
KACD	LIC	Thousand Oaks	CA	850	.250	425.5	470.2	155.8 336.9	36.0 42.6	17.7 28.4	134.3	126.4	147.85	.374	4.7	7.999
KPLS	LIC	Orange	CA	830	20.000	505.1	543.2	145.4 327.2	35.8 42.6	14.8 24.2	93.0	87.3	120.28	.210	2.6	8.002
KHVV	LIC	Honolulu	HI	830	10.000	3993.8	3998.8	253.5 54.5	30.8 33.8	.0 .0	951.7	951.7	5.29	.101	1.3	8.003
KHHO	CP	Tacoma	WA	850	1.000	1067.5	1086.1	353.2 172.1	42.5 48.7	5.3 10.2	118.0	117.5	36.69	.086	1.1	8.003
YVLT		San Antonio	Ve	830	50.000	6142.0	6145.3	105.0 309.0	26.6 37.1	.0 .0	2188.2	2188.2	1.80	.079	1.0	8.003
KHLO	LIC	Hilo	HI	850	5.000	3867.8	3873.0	248.5 51.4	29.8 33.0	.0 .0	630.8	630.8	5.79	.073	0.9	8.004
TGX		Ciros	Gt	850	5.000	3926.8	3931.9	122.6 316.4	27.0 36.2	.0 .0	692.0	692.0	4.96	.069	0.9	8.004
HRXS		S Pedro Sula	Ho	830	2.000	4045.2	4050.2	118.7 313.9	27.6 36.9	.0 .0	437.6	437.6	4.52	.040	0.5	8.004
HJDM		Medellin 7	Co	830	5.000	5749.8	5753.3	116.1 314.4	23.5 33.7	.0 .0	691.7	691.7	2.50	.035	0.4	8.004
WXEW	CP	Yabucoa	PR	840	5.000	5725.8	5729.3	96.6 304.2	30.8 41.3	.0 .0	92.8	92.8	1.66	.031	0.4	8.004
KFLT	LIC	Tucson	AZ	830	1.000	1053.1	1071.9	120.9 306.4	35.2 42.5	5.4 10.4	23.8	23.0	42.58	.020	0.2	8.004
KICY	LIC	Nome	AK	850	10.000	4155.5	4160.3	330.1 113.8	53.1 56.1	.0 .0	945.5	945.5	.91	.017	0.2	8.004
KSDP	LIC	Sand Point	AK	830	1.000	3546.0	3551.6	316.5 106.8	48.2 51.3	.0 .0	285.7	285.7	2.63	.015	0.2	8.004
CKMA		Abbotsford	Cn	850	10.000	1263.2	1279.0	355.0 173.9	43.4 49.6	3.7 7.9	24.0	23.9	26.47	.013	0.2	8.004
CKBA		Athabasca	Cn	850	1.000	1971.7	1981.8	14.3 199.8	46.3 53.1	.0 2.5	57.4	57.5	8.92	.010	0.1	8.004
WABA	CP	Aguadilla	PR	850	1.000	5591.3	5594.9	97.1 304.2	30.8 41.3	.0 .0	282.0	282.0	1.76	.010	0.1	8.004
WDJA	CP	West Palm Beach	FL	850	24.000	3930.3	3935.4	96.5 298.5	33.7 43.4	.0 .0	124.2	124.2	3.56	.009	0.1	8.004
CHUR		North Bay	Cn	840	10.000	3494.0	3499.7	61.0 269.3	43.8 53.1	.0 .0	18.2	18.2	2.25	.008	0.1	8.004
WACC	LIC	Hialeah	FL	830	1.000	3999.7	4004.7	97.4 299.4	33.4 43.1	.0 .0	91.3	91.3	3.48	.006	0.1	8.004
WRBZ	LIC	Raleigh	NC	850	5.000	3708.1	3713.5	80.2 286.0	38.7 48.3	.0 .0	73.9	73.9	3.04	.004	0.1	8.004
WTRU	LIC	Kernersville	NC	830	10.000	3575.5	3581.1	80.0 285.1	38.7 48.2	.0 .0	49.9	49.9	3.32	.003	0.0	8.004
WEEI	LIC	Boston	MA	850	50.000	4183.8	4188.6	67.1 280.1	42.7 52.6	.0 .0	104.6	104.6	1.48	.003	0.0	8.004
WTAR	LIC	Norfolk	VA	850	25.000	3854.1	3859.2	77.2 284.8	39.5 49.2	.0 .0	59.1	59.1	2.57	.003	0.0	8.004
WPTB	LIC	Statesboro	GA	850	1.000	3559.7	3565.4	87.5 290.5	36.7 46.2	.0 .0	37.8	37.8	3.84	.003	0.0	8.004

Figure 9 - Page4 of 13

Note: Database value of 63.25 for Q used in place of calculated value 104.9584 for CKVL VERDUN, QU 850 kHz

Note: Assumed antenna parameters used for KHHO CP TACOMA, WA 850 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App ONEIDA, WI 850 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for XEMO App TIJUANA, BN 860 kHz
Assumed parameters: Tower #1 B assumed as 0; Tower #1 C assumed as 0; Tower #1 D assumed as 0;

Note: Assumed antenna parameters used for KTRB App MODESTO, CA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for KTRB App MODESTO, CA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for KTRB App SAN FRANCISCO, CA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for KTRB App SAN FRANCISCO, CA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for KTRB App SAN FRANCISCO, CA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Database value of 24.14016 for Q used in place of calculated value 41.735 for WDMG Lic DOUGLAS, GA 860 kHz

Note: Assumed antenna parameters used for WAMO CP MILLVALE, PA 860 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0;

Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0; Tower #5 Type assumed as 0;

Note: Assumed antenna parameters used for KPLS Lic ORANGE, CA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App BUNNELL, FL 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App ORANGE PARK, FL 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App ORANGE PARK, FL 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App DUNWOODY, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App DUNWOODY, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App NORCROSS, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0; Tower #5 Type assumed as 0; Tower #6 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App SANDY SPRINGS, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0; Tower #5 Type assumed as 0; Tower #6 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App SUW ANEE, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App UNION CITY, GA 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0; Tower #5 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App CHARLESTON, SC 830 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0;

Note: Assumed antenna parameters used for KMUL CP FARWELL, TX 830 kHz
Assumed parameters: Tower #1 Type assumed as 0;

Note: Assumed antenna parameters used for KMUL CP FARWELL, TX 830 kHz
Assumed parameters: Tower #1 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App DEL REY OAKS, CA 840 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Assumed antenna parameters used for NEW App MODESTO, CA 840 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0;

Note: Database value of 16.1 for Q used in place of calculated value 32.19861 for CHUR NORTH BAY, ON 840 kHz

Note: Database value of 16.1 for Q used in place of calculated value 31.62278 for CHUR NORTH BAY, ON 840 kHz

Note: Database value of 5.7 for Q used in place of calculated value 31.62278 for CHUR NORTH BAY, ON 840 kHz

Note: Database value of 16.4 for Q used in place of calculated value 22.36068 for CKRD RED DEER, AB 850 kHz

Note: Database value of 17 for Q used in place of calculated value 31.62278 for CKMA ABBOTSFORD, BC 850 kHz

Note: Database value of 27.35885 for Q used in place of calculated value 51.14722 for WSPO Lic JOHNSTOWN, PA 850 kHz

Note: Assumed antenna parameters used for WABA CP AGUADILLA, PR 850 kHz
Assumed parameters: Tower #1 Type assumed as 0;

Note: Assumed antenna parameters used for CKVL App MONTREAL, QC 850 kHz
Assumed parameters: Tower #1 B assumed as 0; Tower #1 C assumed as 0; Tower #1 D assumed as 0; Tower #2 B assumed as 0; Tower #2 C assumed as 0; Tower #2 D assumed as 0; Tower #3 B assumed as 0; Tower #3 C assumed as 0; Tower #3 D assumed as 0;

**Cecil Lynch Engineers
Modesto, CA**

Page 1
Tuesday, August 27, 2002

Dataworld AM Night Permissible Radiation Study

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omissions in the information hereby provided, and shall not be liable
for any injuries or damages (including consequential) which might result
from use of the said information.

Job Title: Night Study 840 kHz

The metric system of units will be used.

Station: NEW
Frequency: 840 kHz
Coordinates: N 37° 42' 32.0" W 120° 43' 27.0"

The following codes apply to the permissible radiation values:

S	skywave contour protection
s	truncated skywave protection
G	groundwave contour protection
g	truncated groundwave protection
=	limited to present radiation value
-	10% radiation reduction calculated
F	foreign (protect 1/2 of 50% RSS or smallest contributor)

Note: Database value of 16 for Q used in place of calculated value 31.62278 for CHAM HAMILTON, ON 820 kHz

Note: Assumed antenna parameters used for WBCU App UNION, SC 820 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0;

Note: Assumed antenna parameters used for WBCU App UNION, SC 820 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0;

Note: Assumed antenna parameters used for WBCU App UNION, SC 820 kHz
Assumed parameters: Tower #1 Type assumed as 0; Tower #2 Type assumed as 0; Tower #3 Type assumed as 0; Tower #4 Type assumed as 0; Tower #5 Type assumed as 0;

Note: Assumed antenna parameters used for WBCU App UNION, SC 820 kHz