

TABLE 4														
DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS														
Nighttime limits to CFRP FORESTVILLE QU CA N Lat 48 38 23 W Long 69 05 13														
File No./arn -Proposal 620 kHz Canadian (10%) IFRB Serial No. 000120601														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WZON	S	WVMT	A	CHRQ	S	WHEN	A	WTMJ	A	WKHB	S		
Prefix/Freq arn	BL / 620		BL / 620		# 147/ 620		BL / 620		BL / 620		# 1/ 620			
			881229AE		Operatin		990713DC		950222AD					
Distance (km)	424.3		554.9		904.5		825.5		1609.5		1251.2			
Bearing	357.0		33.2		84.0		39.2		59.3		38.6			
Radiation on Gnd	1068.4		669.8		920.9		202.5		445.3		79.2			
Lower Angle	23.3		17.8		9.9		11.2		3.2		5.9			
Upper Angle	23.3		17.8		9.9		11.2		3.2		5.9			
Max Rad	911.6		584.7		893.6		201.2		442.6		77.8			
Skywave Field	138		117		74.5		83.7		21.1		42.1			
Limit	25.18223		13.67020		13.32359		3.36786		1.86801		0.65480			
Running RSS	25.1822		28.6534											
			(50%)											
Nighttime limits to CHRQ TIMMINS ON CA N Lat 48 26 50 W Long 81 23 08														
File No./arn -Operatin 620 kHz Canadian (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WVMT	A	WTMJ	A	WHEN	A	WZON	S	WRJZ	A	CFRP	S	WKHB	S
Prefix/Freq arn	BL / 620		BL / 620		BL / 620		BL / 620		BL / 620		# 120601		PROPOSED	
	881229AE		950222AD		990713DC				791210AE		Proposal	# 148/ 620	# 1/ 620	
Distance (km)	760.8		822.4		718.5		1041.0		1399.4		904.5		916.8	
Bearing	307.8		36.8		327.7		297.2		7.5		273.3		352.2	
Radiation on Gnd	1010.3		862.7		420.6		623.7		1061.7		277.7		254.0	
Lower Angle	12.4		11.3		13.3		8.1		4.6		9.9		9.7	
Upper Angle	12.4		11.3		13.3		8.1		4.6		9.9		9.7	
Max Rad	944.9		879.9		402.4		612.6		1055.2		272.5		243.6	
Skywave Field	91.1		84.0		96.7		60.0		32.0		74.5		73.1	
Limit	17.21904		14.78370		7.78376		7.35677		6.74502		4.06325		3.56312	
Running RSS	17.2190		22.6948											
			(50%)											

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DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS															
Nighttime limits to KMKI PLANO TX US N Lat 33 14 34 W Long 96 32 29															
File No./arn BL-951017AD 620 kHz FCC Rules (10%) IFRB Serial No.															
Comments: All radiations are in mV/m at 1 km															
Limit from IFRB Serial #	XENK T	XEBU T OBJECTION	XEGH1 T OBJECTION	WRJZ A	WTMT S	YVNO T 81001518	KMNS A	JBC T 81000947	WJDX A	KTAR A	WDAE A	KJSL A	WKHB S PROPOSED		
Prefix/Freq arn	# 180/ 620 Operatin	# 179/ 620 Operatin	# 186/ 620 Proposal	BL / 620 791210AE	BL / 620 870529AF	# 178/ 620 Operatin	BL / 620 850709AC	# 175/ 620 Operatin	BL / 620	BL / 620	BL / 620 911118AA	BL / 630	# 1/ 620		
Distance (km)	1563.3	1043.4	820.5	1200.8	1127.6	3605.6	1014.9	2541.8	601.0	1434.6	1461.1	835.5	1688.2		
Bearing	8.8	58.6	10.5	259.0	243.3	318.6	180.5	315.5	280.9	86.8	297.5	225.7	247.7		
Radiation on Gnd	621.4	301.5	200.7	298.7	256.7	1383.7	203.0	692.0	82.7	288.8	275.9	1230.2	101.4		
Lower Angle	1.7	5.5	8.1	4.1	4.7	0.0	5.8	0.0	12.1	2.5	2.3	7.9	1.1		
Upper Angle	5.2	10.5	14.4	8.5	9.4	0.0	11.0	0.0	20.3	6.2	6.0	14.1	4.2		
Max Rad	621.0	299.5	197.8	292.6	257.1	1383.7	202.5	692.0	77.8	288.5	275.3	1201.9	101.4		
Skywave Field	26.1	44.0	63.8	32.8	35.6	6.54	41.0	11.1	95.9	25.7	25.4	57.8	16.6		
Limit	3.24012	2.63747	2.52150	1.92232	1.83285	1.80955	1.66145	1.53591	1.49142	1.48144	1.39896	1.38851	0.33705		
Running RSS	3.2401	-----	-----	3.7674 (50%)	4.1896	4.5637	4.8567	5.0938	5.3076	5.5105	5.6853 (25%)				
Nighttime limits to WDAE ST. PETERSBURG FL US N Lat 27 52 37 W Long 82 35 26															
File No./arn BL-911118AA 620 kHz FCC Rules (10%) IFRB Serial No.															
Comments: All radiations are in mV/m at 1 km															
Limit from IFRB Serial #	JBC T 81000947	YVNO T 81001518	HJEL T 81003194	XENK T	HISD T 81005010	WIOD A	XEKX T	ABS T 81000959	WKHB S PROPOSED						
Prefix/Freq arn	# 175/ 620 Operatin	# 178/ 620 Operatin	# 173/ 620 Operatin	# 180/ 620 Operatin	# 174/ 620 Operatin	BL / 610	# 184/ 620 Proposal	# 156/ 620 Operatin	# 1/ 620						
Distance (km)	1214.6	2264.0	2783.7	1924.8	1660.6	330.4	1077.9	2438.7	1405.1						
Bearing	335.8	330.7	347.4	57.5	311.2	313.6	29.9	302.9	191.8						
Radiation on Gnd	692.0	1383.7	978.6	621.4	489.3	606.6	201.3	692.0	135.2						
Lower Angle	4.0	0.0	0.0	0.0	1.2	22.8	5.2	0.0	2.7						
Upper Angle	8.4	0.9	0.0	2.7	4.4	35.1	10.1	0.1	6.5						
Max Rad	690.0	1383.7	978.6	621.4	489.1	551.6	200.2	692.0	134.8						
Skywave Field	40.7	16.4	12.5	19.5	24.6	199	48.0	13.0	25.2						
Limit	5.61144	4.53194	2.44726	2.42192	2.41029	2.19407	1.92360	1.80088	0.67859						
Running RSS	5.6114	7.2129 (50%)	7.6168	7.9926	8.3481	8.6316 (25%)									

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DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS														
Nighttime limits to WDNC DURHAM NC US N Lat 36 02 10 W Long 78 58 07														
File No./arn BL-801010AB 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WRJZ A	WDAE A	WWNR A	WHEN A	WTMT S	WKHB S PROPOSED								
Prefix/Freq arn	BL / 620 791210AE	BL / 620 911118AA	BL / 620 990713DC	BL / 620 870529AF		# 1/ 620								
Distance (km)	437.9	969.1	280.4	819.8	647.9	477.1								
Bearing	87.9	19.7	133.3	197.8	111.0	172.1								
Radiation on Gnd	671.6	455.9	151.4	316.6	198.7	137.4								
Lower Angle	17.2	6.3	26.5	8.1	11.1	15.7								
Upper Angle	27.6	11.7	39.8	14.4	18.8	25.5								
Max Rad	420.4	453.8	80.1	313.3	195.0	127.9								
Skywave Field	140	48.1	226	53.0	81.4	122								
Limit	11.77261	4.36444	3.61894	3.32426	3.17600	3.12312								
Running RSS	11.7726 (50%)	12.5556	13.0667	13.4829 (25%)										
Nighttime limits to WHEN SYRACUSE NY US N Lat 43 05 34 W Long 76 11 17														
File No./arn BL-990713DC 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WRJZ A	WZON S	##### WSNR A	WIP A	WTMJ A	##### WSNR S	WMAL A	##### WSNR S	WDNC S	WKHB S PROPOSED				
Prefix/Freq arn	BL / 620 791210AE	BL / 620	Licensed BL / 620	BL / 610 861110AE	BL / 620 950222AD	Granted BMP / 620 950710AA	BL / 630 850515AC	Pending BP / 620 990521AR	BL / 620 801010AB	# 1/ 620				
Distance (km)	1025.6	622.8	296.6	369.8	967.5	307.7	460.3	284.3	819.8	426.8				
Bearing	37.3	254.5	330.0	346.3	83.4	326.7	9.7	327.7	16.0	41.9				
Radiation on Gnd	417.7	247.4	90.5	1033.3	429.5	120.8	867.4	119.1	163.5	56.2				
Lower Angle	5.7	11.6	25.2	20.4	6.3	24.4	16.3	26.2	8.1	17.7				
Upper Angle	10.8	19.6	38.2	32.0	11.7	37.1	26.4	39.4	14.4	28.3				
Max Rad	459.1	235.3	78.3	986.2	424.8	70.2	836.3	42.2	160.9	48.0				
Skywave Field	36.5	68.6	199	157	34.5	192	120	208	53.0	131				
Limit	3.34763	3.23036	3.12206	3.09858	2.92964	2.69066	2.01016	1.75379	1.70732	1.25501				
Running RSS	3.3476	4.6521	5.6026	6.4024 (50%)	7.0408	-----	7.3221 (25%)							

TABLE 4

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Nighttime limits to WIP PHILADELPHIA PA US N Lat 39 51 56 W Long 75 06 43											
File No./arn BL-861110AE 610 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km											
Limit from IFRB Serial #	T 81001714	WDAF T	WGIR A	WIOD A	WCAO A	WNTW A	WHEN A	CKTB A	WTVN S	WEZN A	WKHB S
Prefix/Freq	# 104/ 610	BL / 610	BL / 610	BL / 610	BL / 600	BL / 610	BL / 620	# 119/ 610	BP / 610	BL / 610	# 1/ 620
arn	Operatin	990714AAC	810805AD		890825AF		990713DC	Operatin	971126AF		
Distance (km)	3532.5	1675.6	462.8	1627.2	149.3	276.7	369.8	488.2	665.5	1263.9	393.2
Bearing	339.8	80.5	222.1	15.5	70.5	73.5	165.6	134.9	84.8	52.5	95.4
Radiation on Gnd	2188.2	690.9	102.0	476.5	115.6	44.3	530.1	68.3	107.3	226.9	267.9
Lower Angle	0.0	1.1	16.2	1.4	43.6	26.9	20.4	15.3	10.7	3.6	19.2
Upper Angle	0.0	4.3	26.3	4.7	57.7	40.2	32.0	25.0	18.2	7.9	30.4
Max Rad	2188.2	690.7	84.0	476.3	268.3	33.1	466.9	65.3	91.3	230.1	227.4
Skywave Field	5.94	14.6	118	20.0	348	223	157	110	73.4	28.0	150
Limit	2.60054	2.01686	1.97871	1.90139	1.86971	1.47552	1.46694	1.43288	1.33980	1.28814	0.68419
Running RSS	2.6005	3.2909	3.8400	4.2850	4.6752	4.9025	5.1173	5.3141	5.4804		
			(50%)						(25%)		
Nighttime limits to WJDX JACKSON MS US N Lat 32 22 56 W Long 90 11 26											
File No./arn BL- 620 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km											
Limit from IFRB Serial #	WRJZ A	KMKI A	WTMT S	WDAE A	KMNS A	XENK T	YVNO T	JBC T	WKHB S		
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 620	BL / 620	# 180/ 620	# 178/ 620	# 175/ 620	# 1/ 620		
arn	791210AE	951017AD	870529AF	911118AA	850709AC	Operatin	Operatin	Operatin			
Distance (km)	708.5	601.0	774.9	885.6	1239.7	1696.7	3107.7	2040.8	1284.8		
Bearing	237.3	97.4	213.0	306.3	151.6	29.7	324.7	324.1	230.1		
Radiation on Gnd	243.7	224.6	295.5	309.2	509.7	621.4	1383.7	692.0	79.5		
Lower Angle	9.9	12.1	8.8	7.2	3.8	1.0	0.0	0.0	3.5		
Upper Angle	17.0	20.3	15.4	13.1	8.1	4.2	0.0	2.1	7.6		
Max Rad	336.8	220.2	294.2	301.8	508.3	621.3	1383.7	692.0	79.3		
Skywave Field	75.1	95.9	64.9	56.1	29.2	22.9	8.80	16.6	27.7		
Limit	5.06091	4.22163	3.82044	3.38769	2.97056	2.84023	2.43411	2.29950	0.43944		
Running RSS	5.0609	6.5905	7.6178	8.3371	8.8505	9.2951	9.6085				
			(50%)				(25%)				

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Nighttime limits to WMAL WASHINGTON DC US N Lat 39 00 55 W Long 77 08 30											
File No./arn BL-850515AC 630 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km											
Limit from IFRB Serial #	WPRO A	WSKN S	OAX1T T 81007482	CFCO S 12065	KJSL A	CFBK S 120662	WWJZ A	WLAP A	WMFD A	WBMQ A	WKHB S PROPOSED
Prefix/Freq arn	BL / 630 801215AH	BL / 630 860314AJ	# 200/ 630 Proposal	# 251/ 630 Operatin	BL / 630	# 252/ 630 Proposal	BMP / 640 921207AC	BL / 630 810109AA	BL / 630	BL / 630	# 1/ 620
Distance (km)	580.2	2523.0	4972.4	569.0	1123.1	718.4	234.7	642.4	537.9	848.3	260.8
Bearing	240.0	337.4	1.8	128.7	84.0	165.6	243.1	78.9	7.8	23.3	122.1
Radiation on Gnd	169.0	822.5	1384.0	63.9	159.7	76.3	206.0	65.1	47.9	86.9	259.4
Lower Angle	12.6	0.0	0.0	12.9	4.8	9.7	31.0	11.2	13.8	7.7	28.3
Upper Angle	21.1	0.0	0.0	21.5	9.5	16.8	45.0	19.0	22.7	13.8	41.9
Max Rad	126.2	822.5	1384.0	59.0	159.2	84.9	192.4	61.5	45.9	86.1	186.1
Skywave Field	88.1	9.81	4.18	90.4	32.0	59.7	258	79.9	106	55.9	235
Limit	2.22405	1.61305	1.15654	1.06757	1.01996	1.01461	0.99471	0.98352	0.97714	0.96155	0.87617
Running RSS	2.2241	2.7475 (50%)	2.9810	3.1664	3.3266	3.4779	3.6174	3.7487	3.8740 (25%)		
Nighttime limits to WNTW WINCHESTER VA US N Lat 39 11 53 W Long 78 13 13											
File No./arn BL- 610 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km											
Limit from IFRB Serial #	WIP A	WTVN S	WDAF T	T	WKHB S						
Prefix/Freq arn	BL / 610 861110AE	Granted BP / 610 971126AF	BL / 610 990714AAC	# 104/ 610 Operatin	81001714	PROPOSED					
Distance (km)	276.7	403.2	1414.1	3597.8		175.3					
Bearing	255.4	94.5	83.9	335.2		133.3					
Radiation on Gnd	339.8	134.0	690.9	2188.2		222.4					
Lower Angle	26.9	18.7	2.6	0.0		39.0					
Upper Angle	40.2	29.7	6.4	0.0		53.3					
Max Rad	482.9	143.0	689.8	2188.2		123.7					
Skywave Field	223	148	20.9	5.79		319					
Limit	21.53053	4.23600	2.88164	2.53577		0.78831					
Running RSS	21.5305										
	(50% & 25%)										

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DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS													
Nighttime limits to WRJZ KNOXVILLE TN US N Lat 35 59 24 W Long 83 50 15													
File No./arn BL-791210AE 620 kHz FCC Rules (10%) IFRB Serial No.													
Comments: All radiations are in mV/m at 1 km													
Limit from IFRB Serial #	WTMT S	WWNR A	WDAE A	YVNO T 81001518	WJDX A	JBC T 81000947	WDNC S	KMKI A	WTMJ A	WKHB S PROPOSED			
Prefix/Freq arn	BL / 620 870529AF	BL / 620	BL / 620 911118AA	# 178/ 620 Operatin	BL / 620	# 175/ 620 Operatin	BL / 620 801010AB	BL / 620 951017AD	BL / 620 950222AD	# 1/ 620			
Distance (km)	306.9	305.6	909.6	3106.5	708.5	2095.3	437.9	1200.8	830.4	599.2			
Bearing	146.9	229.9	352.9	338.3	53.8	344.1	270.8	71.7	152.7	218.4			
Radiation on Gnd	99.2	83.9	218.8	1383.7	133.1	692.0	74.9	259.8	156.6	89.8			
Lower Angle	24.4	24.5	6.9	0.0	9.9	0.0	17.2	4.1	8.0	12.2			
Upper Angle	37.2	37.3	12.7	0.0	17.0	1.8	27.6	8.5	14.2	20.4			
Max Rad	81.3	62.9	217.1	1383.7	144.2	692.0	67.0	255.9	153.8	87.0			
Skywave Field	207	208	53.1	8.29	75.1	14.9	140	32.8	53.0	89.5			
Limit	3.36403	2.61479	2.30491	2.29301	2.16742	2.05956	1.87680	1.68137	1.63166	1.55712			
Running RSS	3.3640	4.2607	4.8442 (50%)	5.3595	5.7812	6.1371	6.4177	6.6343 (25%)					
Nighttime limits to WSLC ROANOKE VA US N Lat 37 18 11 W Long 80 02 33													
File No./arn BL- 610 kHz FCC Rules (10%) IFRB Serial No.													
Comments: All radiations are in mV/m at 1 km													
Limit from IFRB Serial #	WIP A	WFNZ A	WNTW A	##### WTVN A	##### WTVN S	WDAF T	WEZN A	WIOD A	WKHB S PROPOSED				
Prefix/Freq arn	BL / 610 861110AE	BL / 610 14470	BL / 610	BL / 610 791010AJ	BP / 610 971126AF	BL / 610 990714AAC	BL / 610	BL / 610	# 1/ 620				
Distance (km)	514.4	235.6	264.0	383.0	353.9	1287.5	749.8	1273.5	333.3				
Bearing	237.9	18.7	217.6	137.3	134.7	93.8	53.7	0.5	185.2				
Radiation on Gnd	298.8	59.3	145.2	95.9	116.3	690.9	228.2	482.8	138.5				
Lower Angle	14.5	30.9	28.0	19.7	21.3	3.5	9.2	3.6	22.6				
Upper Angle	23.8	44.9	41.5	31.1	33.2	7.6	16.0	7.8	34.9				
Max Rad	313.1	120.2	117.0	134.3	116.7	689.0	239.7	481.7	117.0				
Skywave Field	109	264	236	160	175	26.0	67.8	31.3	186				
Limit	6.85012	6.34240	5.53151	4.28949	4.09167	3.58037	3.24999	3.01094	0.43573				
Running RSS	6.8501	9.3354	10.8511 (50%)	11.6682	-----	12.2052	12.6305						

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DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS														
Nighttime limits to WSNR NEWARK NJ US N Lat 40 47 51 W Long 74 21 36														
File No./arn BL- 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WHEN A	WVMT A	WZON S	WKHB S PROPOSED	WRJZ A	WWNR A	WIP A							
Prefix/Freq arn	BL / 620 990713DC	BL / 620 881229AE	BL / 620	# 1/ 620 791210AE	BL / 620	BL / 620	BL / 610 861110AE							
Distance (km)	296.6	425.8	638.1	454.7	982.8	679.6	121.6							
Bearing	148.7	193.0	227.3	81.1	54.2	58.4	31.4							
Radiation on Gnd	468.7	589.8	388.3	215.1	594.5	275.2	299.7							
Lower Angle	25.2	17.7	11.3	16.5	6.1	10.4	49.5							
Upper Angle	38.2	28.3	19.1	26.7	11.4	17.8	62.7							
Max Rad	391.8	493.4	365.9	190.5	563.7	254.4	476.8							
Skywave Field	199	127	69.7	124	40.8	71.9	379							
Limit	15.61687	12.53536	5.10160	4.71290	4.59782	3.65832	3.61236							
Running RSS	15.6169	20.0256 (50%)	20.6652 (25%)											
Nighttime limits to WSNR JERSEY CITY NJ US N Lat 40 47 53 W Long 74 06 24														
File No./arn BMP-950710AA 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km														
Limit from IFRB Serial #	WHEN A	WVMT A	WZON S	WRJZ A	WKHB S PROPOSED	WWNR A	WIP A							
Prefix/Freq arn	BL / 620 990713DC	BL / 620 881229AE	BL / 620	BL / 620 791210AE	# 1/ 620	BL / 620	BL / 610 861110AE							
Distance (km)	307.7	421.7	623.6	1001.4	476.0	698.6	134.2							
Bearing	145.3	190.2	225.9	54.8	81.4	59.2	39.1							
Radiation on Gnd	441.4	628.5	397.4	611.7	216.2	283.0	284.9							
Lower Angle	24.4	17.9	11.6	5.9	15.8	10.1	46.7							
Upper Angle	37.1	28.6	19.6	11.2	25.6	17.3	60.4							
Max Rad	376.2	524.6	373.4	582.4	193.5	263.2	458.6							
Skywave Field	192	129	72.3	39.5	116	68.9	364							
Limit	14.41823	13.49765	5.40033	4.60019	4.50135	3.62590	3.33851							
Running RSS	14.4182	19.7502 (50%)	20.4752 (25%)											

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

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TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTVN COLUMBUS OH US N Lat 39 34 37 W Long 82 53 14									
File No./arn BP-971126AF 610 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km									
Limit from IFRB Serial #	WIP A	WDAF T	WSLC A	WEZN A	WNTW A	WRJZ A	WIOD A	T 81001714	WKHB S PROPOSED
Prefix/Freq	BL / 610	BL / 610	BL / 610	BL / 610	BL / 610	BL / 620	BL / 610	# 104/ 610	# 1/ 620
arn	861110AE	990714AAC				791210AE		Operatin	
Distance (km)	665.5	1011.8	353.9	764.1	403.2	407.4	1547.2	3865.8	282.9
Bearing	269.7	82.6	316.5	26.6	277.5	11.5	351.2	330.3	254.8
Radiation on Gnd	534.5	690.9	73.7	264.7	130.2	1135.9	492.9	2188.2	110.9
Lower Angle	10.7	5.8	21.3	8.9	18.7	18.5	1.8	0.0	26.3
Upper Angle	18.2	11.0	33.2	15.6	29.7	29.5	5.3	0.0	39.5
Max Rad	561.2	685.6	108.9	270.5	112.3	1043.0	492.6	2188.2	75.9
Skywave Field	73.4	38.4	175	64.7	148	150	22.0	4.94	218
Limit	8.23774	5.25945	3.81599	3.50132	3.32855	3.13231	2.16587	2.16362	0.33023
Running RSS	8.2377	9.7735 (50%)	10.4920	11.0608	11.5508	11.9680 (25%)			
Nighttime limits to WVMT BURLINGTON VT US N Lat 44 32 04 W Long 73 13 15									
File No./arn BL-881229AE 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km									
Limit from IFRB Serial #	WZON S	WHEN A	WPRO A	##### WSNR A	##### WSNR S	##### WTMJ A	##### WSNR S	CHLT A	WKHB S
Prefix/Freq	BL / 620	BL / 620	BL / 630	BL / 620	BP / 620	BL / 620	BMP / 620	# 256/ 630	# 1/ 620
arn		990713DC	801215AH		990521AR	950222AD	950710AA	Operatin	
Distance (km)	352.1	287.0	343.3	425.8	409.0	1210.2	421.7	136.7	710.8
Bearing	266.2	55.0	334.0	12.3	12.3	75.3	9.6	231.7	46.3
Radiation on Gnd	290.3	90.6	1153.9	138.0	120.2	471.0	89.5	168.7	28.4
Lower Angle	21.4	26.0	22.0	17.7	18.5	4.1	17.9	46.2	9.8
Upper Angle	33.4	39.1	34.1	28.3	29.4	8.4	28.6	59.9	17.0
Max Rad	257.2	90.9	1037.8	107.3	80.0	468.1	76.5	264.8	26.8
Skywave Field	151	197	164	127	134	21.3	129	334	59.9
Limit	7.75598	3.57401	3.40168	2.72479	2.13807	1.98972	1.96948	1.77060	0.32060
Running RSS	7.7560 (50%)	8.5399	9.1925	9.5878 (25%)	-----				

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WWNR BECKLEY WV US N Lat 37 47 18 W Long 81 14 18																	
File No./arn BL- 620 kHz FCC Rules (10%) IFRB Serial No.																	
Comments: All radiations are in mV/m at 1 km																	
Limit from	WRJZ A	WTMT S	WDNC S	WKHB S													
IFRB Serial #				PROPOSED													
Prefix/Freq	BL / 620	BL / 620	BL / 620	# 1/ 620													
arn	791210AE	870529AF	801010AB														
Distance (km)	305.6	395.2	280.4	308.1													
Bearing	48.4	97.2	314.7	206.0													
Radiation on Gnd	427.2	164.3	85.7	114.6													
Lower Angle	24.5	19.1	26.5	24.3													
Upper Angle	37.3	30.3	39.8	37.1													
Max Rad	576.4	160.0	87.2	96.2													
Skywave Field	208	155	226	202													
Limit	23.97757	4.96793	3.94045	3.88500													
Running RSS	23.9776																
	(50% & 25%)																
Nighttime limits to WZON BANGOR ME US N Lat 44 49 44 W Long 68 47 08																	
File No./arn BL- 620 kHz FCC Rules (10%) IFRB Serial No.																	
Comments: All radiations are in mV/m at 1 km																	
	#####		#####									#####					
Limit from	WSNR A	YVNO T	WRJZ A	WSNR S	WTMJ A	WDAE A	CHLT A	WVMT A	CFCY S	WPRO A	WHEN A	WSNR S	WKHB S				
IFRB Serial #	Licensed	81001518		Granted			12071					Pending	PROPOSED				
Prefix/Freq	BL / 620	# 178/ 620	BL / 620	BMP / 620	BL / 620	BL / 620	# 256/ 630	BL / 620	# 255/ 630	BL / 630	BL / 620	BP / 620	# 1/ 620				
arn		Operatin	791210AE	950710AA	950222AD	911118AA	Operatin	881229AE	Operatin	801215AH	990713DC	990521AR					
Distance (km)	638.1	3836.4	1604.7	623.6	1562.0	2246.8	247.6	352.1	463.0	396.8	622.8	623.9	1025.3				
Bearing	43.5	3.4	47.6	42.3	74.7	29.3	101.2	83.1	252.1	30.3	69.4	44.4	56.9				
Radiation on Gnd	102.6	1383.7	409.6	74.7	472.9	590.9	68.9	37.1	480.1	230.9	70.8	87.6	61.3				
Lower Angle	11.3	0.0	1.5	11.6	1.7	0.0	29.6	21.4	16.2	19.0	11.6	11.6	5.7				
Upper Angle	19.1	0.0	4.8	19.6	5.2	1.0	43.4	33.4	26.3	30.2	19.6	19.5	10.8				
Max Rad	91.0	1383.7	408.4	79.6	472.4	590.9	252.7	34.8	492.8	357.6	69.2	59.4	60.4				
Skywave Field	69.7	4.51	14.8	72.3	12.1	9.39	219	151	100	136	68.6	72.0	31.1				
Limit	1.26839	1.24746	1.20942	1.15050	1.14140	1.11011	1.10598	1.04921	0.98858	0.97424	0.95043	0.85605	0.37569				
Running RSS	1.2684	1.7790	2.1512	-----	2.4353	2.6764	2.8959	3.0801	3.2349	3.3784	3.5095	-----					
					(50%)						(25%)						

[illegible]

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

[illegible]

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WHEN										
US N Lat 43 21 15 W Long 76 21 00										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point A										
					#####	#####				#####
Limit from	WRJZ A	WZON S	WTMJ A	WIP A	WSNR A	WSNR S	WMAL A	WKHB S	WDNC S	WSNR S
IFRB Serial #					Licensed	Granted		PROPOSED		Pending
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 610	BL / 620	BMP / 620	BL / 630	# 1/ 620	BL / 620	BP / 620
arn	791210AE		950222AD	861110AE		950710AA	850515AC		801010AB	990521AR
Distance (km)	1038.7	625.6	954.1	401.3	328.3	339.1	486.9	439.5	843.8	315.9
Bearing	35.7	257.5	81.7	345.5	330.6	327.7	7.6	38.1	14.6	328.7
Radiation on Gnd	471.3	249.7	439.9	1048.7	89.8	115.9	875.2	82.7	173.1	108.8
Lower Angle	5.5	11.5	6.4	18.8	22.9	22.2	15.4	17.1	7.8	23.8
Upper Angle	10.6	19.5	11.9	29.9	35.3	34.4	25.0	27.5	13.9	36.4
Max Rad	513.4	238.7	434.6	1006.5	78.4	67.0	845.9	71.9	170.5	45.6
Skywave Field	35.5	67.7	35.1	142	178	171	111	125	50.4	185
Limit	3.64333	3.23185	3.05357	2.85014	2.79109	2.29603	1.87695	1.80218	1.71781	1.68968
Running RSS	3.6433	4.8702	5.7483	6.4161	6.9969	-----	7.2443		-----	
				(50%)			(25%)			
Nighttime limits to WHEN										
US N Lat 43 09 30 W Long 76 20 45										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point B										
			#####			#####		#####		
Limit from	WRJZ A	WZON S	WSNR A	WIP A	WTMJ A	WSNR S	WMAL A	WSNR S	WDNC S	WKHB S
IFRB Serial #			Licensed			Granted		Pending		PROPOSED
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 610	BL / 620	BMP / 620	BL / 630	BP / 620	BL / 620	# 1/ 620
arn	791210AE			861110AE	950222AD	950710AA	850515AC	990521AR	801010AB	
Distance (km)	1022.5	632.3	309.5	380.2	954.5	321.1	465.4	297.6	823.0	423.4
Bearing	36.5	255.6	328.6	344.7	83.0	325.6	8.0	326.5	15.0	40.0
Radiation on Gnd	443.3	247.6	91.6	1064.5	432.1	126.5	874.0	133.1	170.2	69.4
Lower Angle	5.7	11.4	24.2	19.9	6.4	23.4	16.1	25.1	8.1	17.8
Upper Angle	10.8	19.3	37.0	31.3	11.9	35.9	26.1	38.1	14.3	28.5
Max Rad	486.3	236.2	81.4	1014.4	427.1	68.6	842.3	44.9	167.5	59.5
Skywave Field	36.6	66.9	190	152	35.3	183	118	198	52.7	132
Limit	3.56081	3.15870	3.09839	3.07949	3.01479	2.50744	1.99316	1.77850	1.76404	1.57014
Running RSS	3.5608	4.7599	5.6795	6.4606	7.1294	-----	7.4028	-----		
				(50%)			(25%)			

[illegible]

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WHEN						US N Lat 43 01 00 W Long 76 17 00													
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point C																			
		#####				#####		#####											
Limit from IFRB Serial #	WRJZ A	WSNR A Licensed	WIP A	WZON S	WTMJ A	WSNR S Granted	WMAL A	WSNR S Pending	WDNC S	WKHB S PROPOSED									
Prefix/Freq arn	BL / 620 791210AE	BL / 620	BL / 610 861110AE	BL / 620	BL / 620 950222AD	BMP / 620 950710AA	BL / 630 850515AC	BP / 620 990521AR	BL / 620 801010AB	# 1/ 620									
Distance (km)	1014.1	293.6	363.7	633.0	960.0	305.4	450.7	281.8	809.4	415.4									
Bearing	37.3	327.8	344.8	254.1	83.9	324.6	8.9	325.5	15.7	42.0									
Radiation on Gnd	417.8	91.7	1063.0	247.6	426.3	131.2	870.7	143.6	165.8	55.9									
Lower Angle	5.8	25.5	20.8	11.4	6.4	24.5	16.7	26.4	8.3	18.2									
Upper Angle	11.0	38.5	32.5	19.2	11.8	37.3	26.9	39.7	14.6	29.0									
Max Rad	460.8	81.6	1008.4	235.7	421.5	70.2	837.3	43.1	163.0	47.3									
Skywave Field	37.2	202	160	67.0	35.1	193	124	210	54.2	136									
Limit	3.43186	3.29066	3.23572	3.15742	2.95569	2.71663	2.07278	1.80748	1.76857	1.28192									
Running RSS	3.4319	4.7546	5.7512	6.5609 (50%)	7.1959	-----	7.4885 (25%)	-----											
Nighttime limits to WHEN						US N Lat 42 51 15 W Long 76 14 45													
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point D																			
	#####				#####			#####											
Limit from IFRB Serial #	WSNR A Licensed	WIP A	WRJZ A	WZON S	WSNR S Granted	WTMJ A	WMAL A	WSNR S Pending	WDNC S	WKHB S PROPOSED									
Prefix/Freq arn	BL / 620	BL / 610 861110AE	BL / 620 791210AE	BL / 620	BMP / 620 950710AA	BL / 620 950222AD	BL / 630 850515AC	BP / 620 990521AR	BL / 620 801010AB	# 1/ 620									
Distance (km)	276.9	345.5	1002.9	637.0	289.2	963.9	433.4	265.5	793.1	404.8									
Bearing	326.3	344.5	38.2	252.5	322.9	85.0	9.7	323.7	16.3	44.1									
Radiation on Gnd	90.2	1069.4	394.7	249.3	139.1	419.5	867.4	161.2	161.7	41.8									
Lower Angle	26.8	21.8	5.9	11.3	25.8	6.3	17.4	27.9	8.5	18.7									
Upper Angle	40.2	33.9	11.1	19.1	38.9	11.7	27.9	41.4	15.0	29.6									
Max Rad	81.5	1008.1	435.6	236.9	71.8	415.1	831.9	41.8	158.9	34.7									
Skywave Field	214	171	38.1	66.6	205	35.0	131	223	56.2	140									
Limit	3.49189	3.44179	3.31806	3.15554	2.94683	2.90228	2.17234	1.86502	1.78579	0.97428									
Running RSS	3.4919	4.9030	5.9202	6.7087 (50%)	-----	7.3096	7.6256 (25%)	-----											

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WHEN										
US N Lat 42 49 30 W Long 76 02 00										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point E										
	#####			#####				#####		
Limit from	WSNR A	WIP A	WZON S	WSNR S	WRJZ A	WTMJ A	WMAL A	WSNR S	WDNC S	WKHB S
IFRB Serial #	Licensed			Granted				Pending		PROPOSED
Prefix/Freq	BL / 620	BL / 610	BL / 620	BMP / 620	BL / 620	BL / 620	BL / 630	BP / 620	BL / 620	# 1/ 620
arn		861110AE		950710AA	791210AE	950222AD	850515AC	990521AR	801010AB	
Distance (km)	264.6	337.9	622.3	276.2	1012.4	981.3	433.7	252.6	795.6	415.4
Bearing	329.0	347.1	251.6	325.3	39.0	85.1	12.0	326.4	17.5	46.1
Radiation on Gnd	91.5	1016.9	250.9	127.6	375.9	418.6	854.5	133.8	152.8	29.6
Lower Angle	27.9	22.3	11.6	26.9	5.8	6.1	17.4	29.1	8.5	18.2
Upper Angle	41.5	34.5	19.6	40.2	11.0	11.5	27.9	42.8	14.9	29.0
Max Rad	78.7	963.7	237.5	72.6	411.6	414.6	821.5	40.2	150.1	24.3
Skywave Field	224	175	69.2	215	37.5	33.8	130	234	55.9	136
Limit	3.52446	3.37572	3.28745	3.11896	3.08489	2.80541	2.14383	1.87932	1.67896	0.66094
Running RSS	3.5245	4.8803	5.8843	-----	6.6439	7.2119	7.5238	-----		
					(50%)		(25%)			
Nighttime limits to WHEN										
US N Lat 43 01 15 W Long 76 00 30										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point F										
			#####	#####				#####		
Limit from	WZON S	WRJZ A	WSNR A	WIP A	WSNR S	WTMJ A	WMAL A	WSNR S	WDNC S	WKHB S
IFRB Serial #			Licensed		Granted			Pending		PROPOSED
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 610	BMP / 620	BL / 620	BL / 630	BP / 620	BL / 620	# 1/ 620
arn		791210AE		861110AE	950710AA	950222AD	850515AC	990521AR	801010AB	
Distance (km)	612.1	1029.6	282.3	358.7	292.9	982.4	455.4	269.7	816.8	431.6
Bearing	253.4	38.2	331.7	348.3	328.1	83.9	11.7	329.4	17.2	44.1
Radiation on Gnd	248.1	392.6	88.9	993.9	113.5	426.8	856.7	101.1	155.5	41.9
Lower Angle	11.9	5.6	26.4	21.1	25.5	6.1	16.5	27.5	8.2	17.5
Upper Angle	19.9	10.7	39.6	32.9	38.5	11.5	26.7	40.9	14.5	28.0
Max Rad	234.9	430.2	73.9	950.8	71.3	422.4	826.7	43.6	152.9	35.6
Skywave Field	70.7	36.3	210	163	202	33.6	122	219	53.4	129
Limit	3.32254	3.11897	3.10191	3.10121	2.88261	2.83749	2.01793	1.91286	1.63403	0.91781
Running RSS	3.3225	4.5571	5.5126	6.3251	-----	6.9324	7.2201	-----		
				(50%)			(25%)			

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WHEN										
US N Lat 43 10 15 W Long 76 04 30										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point G										
				#####		#####		#####		
Limit from	WZON S	WRJZ A	WIP A	WSNR A	WTMJ A	WSNR S	WMAL A	WSNR S	WDNC S	WKHB S
IFRB Serial #				Licensed		Granted		Pending		PROPOSED
Prefix/Freq	BL / 620	BL / 620	BL / 610	BL / 620	BL / 620	BMP / 620	BL / 630	BP / 620	BL / 620	# 1/ 620
arn		791210AE	861110AE		950222AD	950710AA	850515AC	990521AR	801010AB	
Distance (km)	611.2	1038.2	376.1	299.5	976.5	309.9	470.6	286.8	830.9	439.4
Bearing	255.0	37.4	348.0	332.3	82.9	329.0	10.6	330.2	16.4	42.0
Radiation on Gnd	247.4	416.1	999.3	88.9	432.7	109.2	862.9	92.5	160.6	55.7
Lower Angle	11.9	5.6	20.1	25.0	6.2	24.2	15.9	26.0	8.0	17.1
Upper Angle	20.0	10.6	31.6	37.9	11.5	36.9	25.9	39.1	14.2	27.5
Max Rad	234.8	455.8	959.5	74.1	428.1	70.1	834.1	45.4	158.1	48.1
Skywave Field	70.6	35.6	154	197	33.8	190	117	206	51.8	126
Limit	3.31684	3.24812	2.95077	2.91997	2.89523	2.66426	1.94399	1.87090	1.63903	1.20918
Running RSS	3.3168	4.6424	5.5008	6.2278	6.8679	-----	7.1377	-----		
				(50%)			(25%)			
Nighttime limits to WHEN										
US N Lat 43 21 00 W Long 76 06 30										
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point H										
				#####		#####		#####		
Limit from	WZON S	WRJZ A	WTMJ A	WIP A	WSNR A	WSNR S	WSNR S	WMAL A	WDNC S	WKHB S
IFRB Serial #					Licensed	Granted	Pending			PROPOSED
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 610	BL / 620	BMP / 620	BP / 620	BL / 630	BL / 620	# 1/ 620
arn		791210AE	950222AD	861110AE		950710AA	990521AR	850515AC	801010AB	
Distance (km)	607.2	1051.2	973.6	396.1	318.3	328.3	305.4	489.6	849.0	452.1
Bearing	256.9	36.5	81.7	348.3	333.6	330.5	331.7	9.8	15.8	40.0
Radiation on Gnd	248.8	442.7	439.7	994.2	90.2	102.1	78.8	866.8	164.7	69.5
Lower Angle	12.0	5.4	6.2	19.1	23.6	22.9	24.5	15.3	7.7	16.6
Upper Angle	20.1	10.4	11.6	30.2	36.2	35.3	37.4	24.9	13.8	26.8
Max Rad	236.6	482.5	434.8	959.2	74.9	68.6	49.6	839.4	162.3	60.8
Skywave Field	71.1	34.7	33.8	144	184	178	192	110	49.9	121
Limit	3.36254	3.35187	2.94169	2.76035	2.75874	2.44258	1.90677	1.84827	1.61898	1.46700
Running RSS	3.3625	4.7478	5.5853	6.2302	6.8137	-----	-----	7.0599		
			(50%)					(25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WMAL										
US N Lat 39 22 30 W Long 77 03 00										
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point A										
Limit from IFRB Serial #	WPRO A	WSKN S	CFBK S 120662	OAX1T T 81007482	WLAP A	WWJZ A	KJSL A	WHEN A	WKHB S PROPOSED	WWJZ S
Prefix/Freq arn	BL / 630 801215AH	BL / 630 860314AJ	# 252/ 630 Proposal	# 200/ 630 Proposal	BL / 630 810109AA	BMP / 640 921207AC	BL / 630	BL / 620 990713DC	# 1/ 620	BP / 640 991012AC
Distance (km)	552.2	2554.7	681.4	5012.7	656.0	211.0	1130.2	419.6	248.1	192.1
Bearing	243.0	338.0	164.2	1.9	75.5	251.6	81.9	190.2	113.3	234.6
Radiation on Gnd	166.8	828.5	82.6	1384.0	77.2	202.3	153.7	379.2	276.9	121.5
Lower Angle	13.4	0.0	10.4	0.0	10.9	33.8	4.7	18.0	29.6	36.4
Upper Angle	22.2	0.0	17.8	0.0	18.5	48.1	9.4	28.7	43.4	50.8
Max Rad	119.3	828.5	90.7	1384.0	72.4	180.0	153.3	351.8	189.4	150.1
Skywave Field	94.2	9.54	64.6	4.09	77.2	281	31.5	135	246	300
Limit	2.24738	1.58001	1.17085	1.13187	1.11668	1.01038	0.96439	0.95092	0.93078	0.89997
Running RSS	2.2474	2.7472 (50%)	2.9863	3.1936	3.3832	3.5309	3.6602	3.7817 (25%)		
Nighttime limits to WMAL										
US N Lat 39 16 15 W Long 77 18 15										
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point B										
Limit from IFRB Serial #	WPRO A	WSKN S	OAX1T T 81007482	WLAP A	CFCO S 120665	CFBK S 120662	KJSL A	WWJZ A	WKHB S PROPOSED	WMFD A
Prefix/Freq arn	BL / 630 801215AH	BL / 630 860314AJ	# 200/ 630 Proposal	BL / 630 810109AA	# 251/ 630 Operatin	# 252/ 630 Proposal	BL / 630	BMP / 640 921207AC	# 1/ 620	BL / 630
Distance (km)	576.9	2554.7	5000.3	632.5	539.7	687.6	1108.4	235.5	234.0	564.3
Bearing	243.1	337.4	1.6	76.2	127.5	166.2	82.5	250.8	118.2	6.0
Radiation on Gnd	166.6	822.7	1384.0	74.0	60.1	73.5	155.6	202.4	268.7	46.5
Lower Angle	12.7	0.0	0.0	11.4	13.7	10.3	4.9	30.9	31.1	13.0
Upper Angle	21.2	0.0	0.0	19.3	22.7	17.6	9.7	44.9	45.1	21.7
Max Rad	123.5	822.7	1384.0	69.1	54.8	83.5	155.1	183.8	178.1	44.6
Skywave Field	88.5	9.55	4.12	81.6	97.3	63.8	32.6	257	259	99.5
Limit	2.18642	1.57098	1.13943	1.12680	1.06602	1.06538	1.01240	0.94583	0.92071	0.88872
Running RSS	2.1864	2.6923 (50%)	2.9235	3.1331	3.3095	3.4768	3.6212	3.7427 (25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WMAL											
US N Lat 39 05 00 W Long 77 22 00											
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point C											
Limit from	WPRO A	WSKN S	CFCO S	OAX1T T	WLAP A	KJSL A	CFBK S	WMFD A	WWJZ A	WKHB S	
IFRB Serial #			12065	81007482			120662			PROPOSED	
Prefix/Freq	BL / 630	BL / 630	# 251/ 630	# 200/ 630	BL / 630	BL / 630	# 252/ 630	BL / 630	BMP / 640	# 1/ 620	
arn	801215AH	860314AJ	Operatin	Proposal	810109AA		Proposal		921207AC		
Distance (km)	592.3	2538.9	549.5	4979.2	624.1	1103.4	706.9	543.0	248.6	240.5	
Bearing	241.7	337.0	129.5	1.5	78.0	83.6	167.0	5.7	246.7	123.1	
Radiation on Gnd	168.3	819.3	66.1	1384.0	68.7	158.8	69.9	46.4	203.5	256.5	
Lower Angle	12.3	0.0	13.4	0.0	11.6	4.9	9.9	13.6	29.5	30.4	
Upper Angle	20.6	0.0	22.3	0.0	19.5	9.7	17.1	22.5	43.3	44.3	
Max Rad	127.5	819.3	60.8	1384.0	64.5	158.2	80.2	44.3	189.2	175.1	
Skywave Field	85.3	9.68	95.0	4.16	83.4	33.0	61.3	105	246	253	
Limit	2.17613	1.58647	1.15553	1.15233	1.07636	1.04482	0.98232	0.93139	0.93019	0.88535	
Running RSS	2.1761	2.6930	2.9304	3.1488	3.3277	3.4879	3.6236	3.7414			
		(50%)						(25%)			
Nighttime limits to WMAL											
US N Lat 38 56 30 W Long 77 28 00											
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point D											
Limit from	WPRO A	WSKN S	CFCO S	OAX1T T	KJSL A	WLAP A	WMFD A	WRJZ A	WBMQ A	WWNR A	WKHB S
IFRB Serial #			12065	81007482							PROPOSED
Prefix/Freq	BL / 630	BL / 630	# 251/ 630	# 200/ 630	BL / 630	BL / 630	BL / 630	BL / 620	BL / 630	BL / 620	# 1/ 620
arn	801215AH	860314AJ	Operatin	Proposal		810109AA		791210AE			
Distance (km)	608.1	2529.2	554.1	4963.2	1095.3	613.6	526.4	650.7	829.1	352.9	243.0
Bearing	240.8	336.7	131.3	1.4	84.5	79.3	4.9	57.8	21.8	67.5	127.3
Radiation on Gnd	168.8	815.7	70.8	1384.0	161.0	62.8	46.9	690.9	81.2	352.0	243.5
Lower Angle	11.9	0.0	13.3	0.0	5.0	11.8	14.1	11.0	8.0	21.4	30.1
Upper Angle	20.1	0.0	22.1	0.0	9.8	19.9	23.2	18.7	14.2	33.3	44.0
Max Rad	130.4	815.7	65.5	1384.0	160.4	59.0	44.6	585.7	80.9	259.8	169.4
Skywave Field	82.2	9.77	94.1	4.20	33.5	85.6	110	80.4	57.9	176	251
Limit	2.14421	1.59358	1.23306	1.16227	1.07612	1.00968	0.97821	0.94135	0.93652	0.91325	0.84993
Running RSS	2.1442	2.6715	2.9423	3.1635	3.3415	3.4907	3.6252	3.7454	3.8607		
		(50%)							(25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WMAL											
US N Lat 38 43 45 W Long 77 29 45											
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point E											
Limit from IFRB Serial #	WPRO A	WSKN S	CFCO S	OAX1T T	KJSL A	WMFD A	WRJZ A	WBMQ A	WWNR A	WLAP A	WKHB S PROPOSED
Prefix/Freq	BL / 630	BL / 630	# 251/ 630	# 200/ 630	BL / 630	BL / 630	BL / 620	BL / 630	BL / 620	BL / 630	# 1/ 620
arn	801215AH	860314AJ	Operatin	Proposal			791210AE			810109AA	
Distance (km)	623.4	2509.7	569.2	4939.5	1094.0	502.7	637.6	806.5	343.0	608.9	256.6
Bearing	239.1	336.4	133.2	1.4	85.7	4.9	59.6	22.3	71.1	81.5	131.8
Radiation on Gnd	168.8	812.5	75.2	1384.0	164.0	46.9	731.4	83.5	373.9	58.2	227.9
Lower Angle	11.6	0.0	12.9	0.0	5.0	14.8	11.3	8.3	22.0	11.9	28.7
Upper Angle	19.6	0.0	21.5	0.0	9.9	24.3	19.1	14.7	34.1	20.0	42.4
Max Rad	132.1	812.5	70.1	1384.0	163.3	44.4	617.6	82.9	274.3	54.8	166.1
Skywave Field	79.5	9.94	90.8	4.25	33.7	117	83.0	60.5	182	86.8	239
Limit	2.10054	1.61440	1.27341	1.17710	1.10244	1.03774	1.02465	1.00433	0.99644	0.95075	0.79552
Running RSS	2.1005	2.6492	2.9394	3.1663	3.3527	3.5096	3.6561	3.7915	3.9203		
		(50%)							(25%)		
Nighttime limits to WMAL											
US N Lat 38 37 15 W Long 77 06 30											
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point F											
Limit from IFRB Serial #	WPRO A	WSKN S	OAX1T T	CFCO S	WMFD A	KJSL A	WBMQ A	WRJZ A	WWJZ A	WWNR A	WLAP A WKHB S PROPOSED
Prefix/Freq	BL / 630	BL / 630	# 200/ 630	# 251/ 630	BL / 630	BL / 630	BL / 630	BL / 620	BMP / 640	BL / 620	BL / 630 # 1/ 620
arn	801215AH	860314AJ	Proposal	Operatin				791210AE	921207AC		810109AA
Distance (km)	603.3	2483.0	4928.7	601.3	495.0	1128.4	810.3	662.8	256.2	372.5	641.8 289.7
Bearing	236.4	336.9	1.8	131.6	8.9	86.2	24.8	61.8	234.1	74.3	82.8 129.0
Radiation on Gnd	165.7	818.2	1384.0	71.7	46.7	165.1	88.5	774.5	219.2	390.0	60.3 237.9
Lower Angle	12.1	0.0	0.0	12.1	15.1	4.7	8.2	10.8	28.7	20.3	11.2 25.8
Upper Angle	20.2	0.0	0.0	20.3	24.6	9.4	14.6	18.3	42.4	31.8	19.0 38.9
Max Rad	126.5	818.2	1384.0	67.3	44.4	164.5	87.1	667.3	209.9	302.9	57.3 183.2
Skywave Field	83.6	10.2	4.28	83.8	119	32.0	60.2	78.4	240	166	80.4 214
Limit	2.11465	1.66109	1.18390	1.12754	1.05778	1.05264	1.04773	1.04687	1.00765	1.00304	0.92096 0.78247
Running RSS	2.1147	2.6891	2.9382	3.1471	3.3201	3.4830	3.6372	3.7849	3.9167	4.0431	
		(50%)								(25%)	

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WMAL										
US N Lat 38 38 00 W Long 76 37 15										
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point G										
Limit from IFRB Serial #	WPRO A	WSKN S	WWJZ A	OAX1T T 81007482	WBMQ A	WRJZ A	CFBK S 120662	KJSL A	WWNR A	WKHB S PROPOSED
Prefix/Freq arn	BL / 630 801215AH	BL / 630 860314AJ	BMP / 640 921207AC	# 200/ 630 Proposal	BL / 630	BL / 620 791210AE	# 252/ 630 Proposal	BL / 630	BL / 620	# 1/ 620
Distance (km)	569.3	2464.4	223.0	4932.1	831.7	702.3	770.6	1170.5	414.1	322.1
Bearing	233.9	337.8	227.8	2.4	27.4	63.1	163.0	86.0	75.5	123.9
Radiation on Gnd	159.7	827.3	235.1	1384.0	91.5	794.7	87.8	164.6	394.7	254.3
Lower Angle	12.9	0.0	32.3	0.0	7.9	10.0	8.8	4.4	18.2	23.3
Upper Angle	21.5	0.0	46.5	0.0	14.2	17.2	15.5	8.9	29.0	35.8
Max Rad	116.6	827.3	221.3	1384.0	89.5	701.2	93.3	164.1	323.6	203.9
Skywave Field	91.1	10.3	270	4.27	57.8	71.9	53.6	30.0	146	191
Limit	2.12359	1.70346	1.19490	1.18179	1.03428	1.00899	1.00033	0.98280	0.94424	0.77989
Running RSS	2.1236	2.7224 (50%)	2.9731	3.1994	3.3624	3.5105	3.6502	3.7802 (25%)		
Nighttime limits to WMAL										
US N Lat 39 03 00 W Long 76 47 00										
File No./arn - 630 kHz FCC Rules (10%) IFRB Serial No.										
Comments: All radiations are in mV/m at 1 km Clipping Point H										
Limit from IFRB Serial #	WPRO A	WSKN S	OAX1T T 81007482	WWJZ A	CFBK S 120662	KJSL A	WHEN A	WBMQ A	WLAP A	WKHB S PROPOSED
Prefix/Freq arn	BL / 630 801215AH	BL / 630 860314AJ	# 200/ 630 Proposal	BMP / 640 921207AC	# 252/ 630 Proposal	BL / 630	BL / 620 990713DC	BL / 630	BL / 630 810109AA	# 1/ 620
Distance (km)	552.5	2512.1	4977.6	205.9	722.2	1153.8	452.2	865.6	673.6	285.2
Bearing	238.6	338.0	2.2	239.9	163.1	83.7	186.5	25.0	78.8	117.9
Radiation on Gnd	168.5	829.3	1384.0	209.4	87.4	159.0	415.3	88.3	65.3	269.2
Lower Angle	13.4	0.0	0.0	34.5	9.6	4.5	16.6	7.5	10.5	26.1
Upper Angle	22.1	0.0	0.0	48.8	16.7	9.1	26.8	13.5	18.0	39.3
Max Rad	120.7	829.3	1384.0	193.9	93.6	158.6	387.5	87.1	62.1	201.8
Skywave Field	94.6	9.88	4.17	286	59.1	30.5	123	54.1	74.4	216
Limit	2.28329	1.63941	1.15331	1.11037	1.10748	0.96703	0.95328	0.94268	0.92380	0.87270
Running RSS	2.2833	2.8109 (50%)	3.0383	3.2348	3.4191	3.5532	3.6789	3.7978 (25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WRJZ US N Lat 35 49 48 W Long 83 29 49									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point A									
Limit from IFRB Serial #	WTMT S	WDAE A	WWNR A	YVNO T	WDNC S	WJDX A	JBC T	WKHB S	KMKI A
				81001518			81000947	PROPOSED	
Prefix/Freq	BL / 620	BL / 620	BL / 620	# 178/ 620	BL / 620	BL / 620	# 175/ 620	# 1/ 620	BL / 620
arn	870529AF	911118AA		Operatin	801010AB		Operatin		951017AD
Distance (km)	338.6	888.3	296.3	3076.9	408.3	725.4	2068.7	596.7	1227.8
Bearing	144.0	354.7	223.4	338.7	268.1	56.3	344.7	215.0	72.8
Radiation on Gnd	115.9	224.5	83.1	1383.7	68.7	144.6	692.0	96.2	255.1
Lower Angle	22.3	7.2	25.2	0.0	18.5	9.6	0.0	12.2	3.9
Upper Angle	34.4	13.0	38.2	0.0	29.4	16.6	1.9	20.5	8.2
Max Rad	97.7	223.2	55.4	1383.7	76.7	155.6	692.0	92.9	251.7
Skywave Field	187	55.0	215	8.46	152	72.7	15.3	90.2	31.7
Limit	3.65279	2.45672	2.37632	2.34126	2.33836	2.26156	2.11234	1.67462	1.59511
Running RSS	3.6528	4.4021	5.0025	5.5233	5.9979	6.4101	6.7492		
			(50%)				(25%)		
Nighttime limits to WRJZ US N Lat 36 10 20 W Long 83 26 42									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point B									
Limit from IFRB Serial #	WTMT S	WWNR A	WDAE A	YVNO T	JBC T	WDNC S	WJDX A	WKHB S	KMKI A
				81001518	81000947			PROPOSED	
Prefix/Freq	BL / 620	BL / 620	BL / 620	# 178/ 620	# 175/ 620	BL / 620	BL / 620	# 1/ 620	BL / 620
arn	870529AF		911118AA	Operatin	Operatin	801010AB			951017AD
Distance (km)	311.0	265.9	925.8	3109.0	2103.5	402.4	749.1	562.4	1239.4
Bearing	139.3	228.2	355.2	339.1	345.2	273.5	53.9	216.7	71.1
Radiation on Gnd	146.5	84.5	225.9	1383.7	692.0	83.0	133.7	92.9	262.1
Lower Angle	24.1	27.8	6.7	0.0	0.0	18.8	9.2	13.1	3.8
Upper Angle	36.8	41.3	12.4	0.0	1.7	29.8	16.0	21.7	8.1
Max Rad	120.1	55.1	224.9	1383.7	692.0	65.8	143.6	89.4	258.8
Skywave Field	204	237	51.6	8.25	14.7	155	69.2	97.7	31.1
Limit	4.90094	2.61385	2.32181	2.28210	2.03811	2.03719	1.98664	1.74700	1.60782
Running RSS	4.9009	5.5544	6.0201	6.4381	6.7530	7.0536	7.3280		
		(50%)					(25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WRJZ											
US N Lat 36 19 08 W Long 83 41 20											
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point C											
Limit from	WTMT S	WWNR A	YVNO T	WDAE A	JBC T	WDNC S	WJDX A	KMKI A	WKHB S	WTMJ A	
IFRB Serial #			81001518		81000947				PROPOSED		
Prefix/Freq	BL / 620	BL / 620	# 178/ 620	BL / 620	# 175/ 620	BL / 620	BL / 620	BL / 620	# 1/ 620	BL / 620	
arn	870529AF		Operatin	911118AA	Operatin	801010AB		951017AD		950222AD	
Distance (km)	284.6	272.0	3133.3	944.2	2125.7	424.7	739.8	1221.4	561.9	803.1	
Bearing	140.7	233.8	338.8	354.0	344.7	275.6	51.9	70.1	219.5	150.7	
Radiation on Gnd	138.0	80.8	1383.7	222.4	692.0	89.8	126.2	265.4	87.9	137.9	
Lower Angle	26.2	27.3	0.0	6.5	0.0	17.8	9.3	4.0	13.1	8.3	
Upper Angle	39.4	40.7	0.0	12.1	1.6	28.4	16.2	8.3	21.8	14.8	
Max Rad	108.8	58.8	1383.7	221.1	692.0	66.1	135.4	261.6	84.9	136.4	
Skywave Field	223	232	8.11	50.0	14.4	145	70.4	31.8	97.7	55.7	
Limit	4.84342	2.73386	2.24299	2.21316	1.99521	1.91949	1.90733	1.66380	1.65927	1.51913	
Running RSS	4.8434	5.5617	5.9970	6.3923	6.6964	6.9661	7.2225				
		(50%)					(25%)				
Nighttime limits to WRJZ											
US N Lat 36 10 55 W Long 84 10 40											
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.											
Comments: All radiations are in mV/m at 1 km Clipping Point D											
Limit from	WTMT S	WWNR A	YVNO T	WDAE A	WJDX A	JBC T	WTMJ A	KMKI A	WDNC S	XENK T	WKHB S
IFRB Serial #			81001518			81000947					PROPOSED
Prefix/Freq	BL / 620	BL / 620	# 178/ 620	BL / 620	BL / 620	# 175/ 620	BL / 620	BL / 620	BL / 620	# 180/ 620	# 1/ 620
arn	870529AF		Operatin	911118AA		Operatin	950222AD	951017AD	801010AB	Operatin	
Distance (km)	273.0	316.3	3139.4	935.3	695.1	2125.5	798.4	1175.3	468.1	2369.2	600.9
Bearing	149.9	236.5	338.0	351.2	50.9	343.5	154.0	70.4	273.5	34.8	222.0
Radiation on Gnd	86.9	77.6	1383.7	213.2	123.0	692.0	170.8	264.6	83.1	621.4	84.3
Lower Angle	27.2	23.8	0.0	6.6	10.1	0.0	8.4	4.3	16.0	0.0	12.1
Upper Angle	40.6	36.4	0.0	12.2	17.4	1.6	14.9	8.8	26.0	0.4	20.3
Max Rad	69.2	64.1	1383.7	211.2	133.1	692.0	166.6	260.2	66.0	621.4	81.9
Skywave Field	232	201	8.10	50.8	77.1	14.5	56.4	34.0	129	11.9	89.0
Limit	3.20372	2.57555	2.24021	2.14662	2.05327	2.00112	1.87825	1.76927	1.69890	1.47461	1.45792
Running RSS	3.2037	4.1106	4.6814	5.1501	5.5443	5.8944	6.1864	6.4344	6.6549		
			(50%)						(25%)		

[illegible]

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

[illegible]

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WSNR									
US N Lat 40 59 12 W Long 74 22 26									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point A									
Limit from IFRB Serial #	WHEN A	WVMT A	WZON S	WKHB S PROPOSED	WRJZ A	WIP A	WWNR A		
Prefix/Freq arn	BL / 620 990713DC	BL / 620 881229AE	BL / 620	# 1/ 620	BL / 620 791210AE	BL / 610 861110AE	BL / 620		
Distance (km)	278.0	405.5	623.9	456.0	992.5	139.4	688.4		
Bearing	146.8	193.8	228.7	78.5	53.1	26.4	56.8		
Radiation on Gnd	453.6	578.5	379.0	201.4	562.9	325.9	258.7		
Lower Angle	26.7	18.6	11.6	16.5	6.0	45.6	10.3		
Upper Angle	40.1	29.6	19.5	26.6	11.3	59.4	17.6		
Max Rad	372.3	474.6	356.0	178.4	534.0	494.7	238.9		
Skywave Field	213	135	72.0	123	40.0	357	70.3		
Limit	15.82814	12.81652	5.12288	4.38659	4.27067	3.53738	3.35850		
Running RSS	15.8281	20.3664 (50%)	21.0008 (25%)						
Nighttime limits to WSNR									
US N Lat 40 50 26 W Long 74 22 31									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point B									
Limit from IFRB Serial #	WHEN A	WVMT A	WZON S	WKHB S PROPOSED	WRJZ A	WIP A	WWNR A		
Prefix/Freq arn	BL / 620 990713DC	BL / 620 881229AE	BL / 620	# 1/ 620	BL / 620 791210AE	BL / 610 861110AE	BL / 620		
Distance (km)	291.8	421.4	635.6	453.9	984.1	125.1	680.6		
Bearing	148.5	193.3	227.7	80.5	53.9	29.7	58.0		
Radiation on Gnd	466.9	585.4	385.8	212.0	586.5	306.6	271.0		
Lower Angle	25.6	17.9	11.3	16.6	6.1	48.7	10.4		
Upper Angle	38.7	28.6	19.2	26.7	11.4	62.1	17.8		
Max Rad	388.1	487.7	363.6	187.5	555.9	482.2	250.5		
Skywave Field	203	129	70.1	124	40.7	375	71.7		
Limit	15.72708	12.55164	5.09642	4.64676	4.52098	3.61335	3.59043		
Running RSS	15.7271	20.1218 (50%)	20.7572 (25%)						

TABLE 4															
DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS															
Nighttime limits to WSNR				US N Lat 40 46 14 W Long 74 24 39											
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.															
Comments: All radiations are in mV/m at 1 km Clipping Point C															
Limit from	WHEN	A	WVMT	A	WZON	S	WKHB S	WRJZ	A	WWNR	A	WIP	A		
IFRB Serial #							PROPOSED								
Prefix/Freq	BL / 620		BL / 620		BL / 620		# 1/ 620	BL / 620		BL / 620		BL / 610			
arn	990713DC		881229AE					791210AE				861110AE			
Distance (km)	297.1		429.6		643.3		450.2	977.6		674.4		116.9			
Bearing	149.7		193.5		227.4		81.5	54.2		58.4		30.3			
Radiation on Gnd	475.9		583.0		387.7		216.7	595.3		275.8		303.7			
Lower Angle	25.2		17.6		11.2		16.7	6.2		10.5		50.7			
Upper Angle	38.1		28.1		18.9		26.9	11.5		18.0		63.7			
Max Rad	397.0		488.7		365.8		191.4	563.5		254.6		480.0			
Skywave Field	199		126		68.9		125	41.2		72.8		384			
Limit	15.80085		12.27188		5.03731		4.79914	4.63960		3.70551		3.69089			
Running RSS	15.8009		20.0067		20.6311										
			(50%)		(25%)										
Nighttime limits to WSNR				US N Lat 40 38 09 W Long 74 12 39											
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.															
Comments: All radiations are in mV/m at 1 km Clipping Point D															
Limit from	WHEN	A	WVMT	A	WZON	S	WRJZ	A	WKHB S	WWNR	A	WIP	A		
IFRB Serial #									PROPOSED						
Prefix/Freq	BL / 620		BL / 620		BL / 620		BL / 620		# 1/ 620	BL / 620		BL / 610			
arn	990713DC		881229AE					791210AE				861110AE			
Distance (km)	318.4		440.9		642.8		985.0	465.9		682.9		114.8			
Bearing	148.4		190.9		225.4		55.5	83.5		60.2		41.5			
Radiation on Gnd	466.2		618.7		400.6		630.4	226.3		292.9		284.0			
Lower Angle	23.6		17.1		11.2		6.1	16.1		10.4		51.2			
Upper Angle	36.2		27.5		18.9		11.4	26.1		17.7		64.1			
Max Rad	399.0		524.5		378.1		598.5	201.6		271.6		455.1			
Skywave Field	185		122		69.1		40.7	120		71.5		387			
Limit	14.75935		12.74733		5.22783		4.87552	4.83682		3.88374		3.52271			
Running RSS	14.7594		19.5022		20.1907										
			(50%)		(25%)										

TABLE 4														
DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS														
Nighttime limits to WSNR														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point E														
Limit from IFRB Serial #	WHEN A	WVMT A	WZON S	WRJZ A	WKHB S PROPOSED	WWNR A	WIP A							
Prefix/Freq arn	BL / 620 990713DC	BL / 620 881229AE	BL / 620	BL / 620 791210AE	# 1/ 620	BL / 620	BL / 610 861110AE							
Distance (km)	343.4	454.5	642.3	995.2	485.8	694.5	119.0							
Bearing	146.9	188.0	223.0	56.9	85.6	62.2	54.3							
Radiation on Gnd	454.4	656.5	415.3	668.1	235.6	310.7	283.8							
Lower Angle	22.0	16.5	11.2	6.0	15.4	10.1	50.2							
Upper Angle	34.1	26.7	19.0	11.3	25.1	17.4	63.3							
Max Rad	398.3	563.9	392.1	636.4	212.0	290.1	451.0							
Skywave Field	170	117	69.5	40.1	114	69.8	382							
Limit	13.55184	13.18352	5.44601	5.10516	4.81427	4.04997	3.44942							
Running RSS	13.5518	18.9065 (50%)	19.6752	20.3267 (25%)										
Nighttime limits to WSNR														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point F														
Limit from IFRB Serial #	WVMT A	WHEN A	WZON S	WRJZ A	WKHB S PROPOSED	WWNR A	WIP A							
Prefix/Freq arn	BL / 620 881229AE	BL / 620 990713DC	BL / 620	BL / 620 791210AE	# 1/ 620	BL / 620	BL / 610 861110AE							
Distance (km)	430.5	330.5	617.8	1015.5	497.7	713.9	141.6							
Bearing	186.9	143.2	223.6	56.0	83.0	60.8	49.3							
Radiation on Gnd	669.5	422.8	411.9	645.4	224.0	298.9	284.0							
Lower Angle	17.5	22.8	11.7	5.8	15.0	9.8	45.1							
Upper Angle	28.1	35.1	19.7	10.9	24.5	16.9	59.0							
Max Rad	564.4	369.9	386.8	616.2	202.6	279.7	449.6							
Skywave Field	125	177	73.6	38.6	110	66.7	355							
Limit	14.14919	13.11660	5.68952	4.75953	4.44089	3.73190	3.19604							
Running RSS	14.1492	19.2937 (50%)	20.1151 (25%)											

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WSNR									
US N Lat 40 46 09 W Long 73 41 14									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point G									
Limit from	WVMT A	WHEN A	WZON S	WRJZ A	WKHB S	WWNR A	WIP A		
IFRB Serial #					PROPOSED				
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 620	# 1/ 620	BL / 620	BL / 610		
arn	881229AE	990713DC		791210AE			861110AE		
Distance (km)	420.4	330.9	602.8	1030.9	510.9	729.1	157.1		
Bearing	185.4	140.5	223.2	55.9	82.1	60.6	49.8		
Radiation on Gnd	688.1	397.6	414.2	642.4	219.6	296.8	284.0		
Lower Angle	18.0	22.8	12.1	5.6	14.6	9.5	42.1		
Upper Angle	28.7	35.1	20.3	10.7	23.9	16.5	56.3		
Max Rad	574.7	350.4	387.2	615.2	199.7	278.8	449.6		
Skywave Field	129	177	76.3	37.6	106	64.5	337		
Limit	14.85213	12.39750	5.90991	4.62384	4.21568	3.59449	3.03176		
Running RSS	14.8521	19.3464	20.2289						
		(50%)	(25%)						
Nighttime limits to WSNR									
US N Lat 40 56 40 W Long 73 58 39									
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.									
Comments: All radiations are in mV/m at 1 km Clipping Point H									
Limit from	WVMT A	WHEN A	WZON S	WRJZ A	WKHB S	WWNR A	WIP A		
IFRB Serial #					PROPOSED				
Prefix/Freq	BL / 620	BL / 620	BL / 620	BL / 620	# 1/ 620	BL / 620	BL / 610		
arn	881229AE	990713DC		791210AE			861110AE		
Distance (km)	403.9	300.6	604.2	1018.9	488.4	715.6	153.7		
Bearing	189.1	141.9	226.2	54.3	79.6	58.4	38.3		
Radiation on Gnd	643.2	410.8	395.6	597.4	207.2	275.3	285.5		
Lower Angle	18.7	24.9	12.0	5.7	15.3	9.8	42.8		
Upper Angle	29.7	37.8	20.2	10.9	25.0	16.8	56.9		
Max Rad	528.3	351.1	370.1	570.4	186.6	256.8	460.0		
Skywave Field	136	196	75.7	38.2	112	66.2	341		
Limit	14.34763	13.77345	5.60616	4.36264	4.18389	3.40084	3.13550		
Running RSS	14.3476	19.8887	20.6637						
		(50%)	(25%)						

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ			US N Lat 41 56 00 W Long 88 02 30																
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point A																			
Limit from	YVNO T	WRJZ A	JBC T	XENK T	WDAF T	KJSL A	KTAR A	WJDX A	WDAE A	HJEL T	WKHB S								
IFRB Serial #	81001518		81000947							81003194	PROPOSED								
Prefix/Freq	# 178/ 620	BL / 620	# 175/ 620	# 180/ 620	BL / 610	BL / 630	BL / 620	BL / 620	BL / 620	# 173/ 620	# 1/ 620								
arn	Operatin	791210AE	Operatin	Operatin	990714AAC				911118AA	Operatin									
Distance (km)	3860.3	753.9	2842.7	2716.5	646.2	402.9	2297.5	1078.7	1639.0	4422.1	721.9								
Bearing	338.1	332.5	341.7	20.1	57.4	25.2	58.9	9.5	343.9	346.7	287.4								
Radiation on Gnd	1383.7	89.0	692.0	621.4	690.9	414.1	519.3	117.1	224.9	978.6	67.6								
Lower Angle	0.0	9.1	0.0	0.0	11.1	18.7	0.0	5.2	1.3	0.0	9.6								
Upper Angle	0.0	15.9	0.0	0.0	18.8	29.8	0.8	10.1	4.6	0.0	16.7								
Max Rad	1383.7	85.3	692.0	621.4	671.6	332.8	519.3	115.6	224.7	978.6	63.3								
Skywave Field	4.78	62.6	7.61	8.37	77.0	147	9.04	37.0	18.8	4.27	62.3								
Limit	1.32162	1.06741	1.05342	1.03966	1.03435	0.98090	0.93906	0.85489	0.84434	0.83638	0.78779								
Running RSS	1.3216	1.6988	1.9989	2.2531	2.4792	2.6662	2.8267	2.9531	3.0714	3.1832									
				(50%)						(25%)									
Nighttime limits to WTMJ			US N Lat 42 10 30 W Long 87 46 00																
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point B																			
Limit from	YVNO T	JBC T	XENK T	WDAF T	KTAR A	KJSL A	WRJZ A	HJEL T	WJDX A	WDAE A	WLAP A	WKHB S							
IFRB Serial #	81001518	81000947						81003194				PROPOSED							
Prefix/Freq	# 178/ 620	# 175/ 620	# 180/ 620	BL / 610	BL / 620	BL / 630	BL / 620	# 173/ 620	BL / 620	BL / 620	BL / 630	# 1/ 620							
arn	Operatin	Operatin	Operatin	990714AAC			791210AE	Operatin		911118AA	810109AA								
Distance (km)	3872.7	2858.4	2750.6	679.0	2326.8	437.2	766.5	4440.7	1109.5	1657.2	531.4	705.9							
Bearing	338.6	342.4	20.3	56.3	58.4	26.3	335.0	347.1	10.4	344.9	329.0	289.9							
Radiation on Gnd	1383.7	692.0	621.4	690.9	524.3	411.6	75.4	978.6	118.2	222.3	393.8	59.2							
Lower Angle	0.0	0.0	0.0	10.4	0.0	17.2	8.9	0.0	4.9	1.2	14.0	9.9							
Upper Angle	0.0	0.0	0.0	17.9	0.6	27.7	15.6	0.0	9.6	4.5	23.0	17.1							
Max Rad	1383.7	692.0	621.4	673.9	524.3	342.0	73.9	978.6	116.7	222.2	365.8	55.2							
Skywave Field	4.72	7.50	8.13	71.1	8.74	133	60.8	4.22	35.1	18.3	102	64.2							
Limit	1.30547	1.03831	1.01090	0.95872	0.91662	0.90730	0.89782	0.82507	0.82040	0.81470	0.74723	0.70921							
Running RSS	1.3055	1.6681	1.9505	2.1734	2.3588	2.5273	2.6820	2.8060	2.9235	3.0349									
			(50%)							(25%)									

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ													
US N Lat 42 30 00 W Long 87 48 00													
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.													
Comments: All radiations are in mV/m at 1 km Clipping Point C													
Limit from	YVNO T	JBC T	XENK T	WDAF T	KTAR A	WRJZ A	KJSL A	HJEL T	WDAE A	WJDX A	WZON S	WTMT S	WKHB S
IFRB Serial #	81001518	81000947						81003194					PROPOSED
Prefix/Freq	# 178/ 620	# 175/ 620	# 180/ 620	BL / 610	BL / 620	BL / 620	BL / 630	# 173/ 620	BL / 620	BL / 620	BL / 620	BL / 620	# 1/ 620
arn	Operatin	Operatin	Operatin	990714AAC		791210AE		Operatin	911118AA			870529AF	
Distance (km)	3905.7	2892.8	2781.9	695.0	2334.8	799.9	468.3	4476.0	1692.4	1144.4	1547.3	497.8	718.5
Bearing	338.9	342.6	19.9	53.6	57.5	336.0	23.9	347.2	345.2	9.9	267.1	339.8	292.6
Radiation on Gnd	1383.7	692.0	621.4	690.9	533.1	78.7	416.3	978.6	221.3	117.6	296.5	35.9	50.9
Lower Angle	0.0	0.0	0.0	10.1	0.0	8.4	16.0	0.0	1.0	4.6	1.8	15.0	9.7
Upper Angle	0.0	0.0	0.0	17.4	0.6	14.8	26.0	0.0	4.2	9.2	5.3	24.5	16.8
Max Rad	1383.7	692.0	621.4	674.9	533.1	77.6	354.9	978.6	221.2	116.3	296.3	32.6	47.7
Skywave Field	4.60	7.29	7.92	68.3	8.61	56.5	121	4.12	17.5	33.2	12.5	111	62.1
Limit	1.27265	1.00907	0.98438	0.92164	0.91803	0.87696	0.85775	0.80634	0.77611	0.77160	0.73788	0.72606	0.59255
Running RSS	1.2727	1.6242	1.8992	2.1110	2.3020	2.4634	2.6085	2.7303	2.8385	2.9415	3.0326		
			(50%)								(25%)		
Nighttime limits to WTMJ													
US N Lat 42 46 45 W Long 87 45 30													
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.													
Comments: All radiations are in mV/m at 1 km Clipping Point D													
Limit from	YVNO T	JBC T	XENK T	KTAR A	WDAF T	WRJZ A	WTMT S	KJSL A	HJEL T	WZON S	WDAE A	WJDX A	WKHB S
IFRB Serial #	81001518	81000947							81003194				PROPOSED
Prefix/Freq	# 178/ 620	# 175/ 620	# 180/ 620	BL / 620	BL / 610	BL / 620	BL / 620	BL / 630	# 173/ 620	BL / 620	BL / 620	BL / 620	# 1/ 620
arn	Operatin	Operatin	Operatin		990714AAC	791210AE	870529AF		Operatin		911118AA		
Distance (km)	3931.3	2920.1	2811.3	2347.5	714.8	826.3	525.7	497.9	4504.6	1535.7	1720.9	1175.5	725.1
Bearing	339.2	342.9	19.7	56.8	51.6	337.2	341.4	22.7	347.4	268.2	345.7	9.8	295.1
Radiation on Gnd	1383.7	692.0	621.4	539.9	690.9	80.4	43.2	417.7	978.6	305.1	219.6	117.4	45.3
Lower Angle	0.0	0.0	0.0	0.0	9.8	8.0	14.1	15.0	0.0	1.9	0.9	4.3	9.6
Upper Angle	0.0	0.0	0.0	0.5	16.9	14.3	23.3	24.5	0.0	5.4	4.0	8.8	16.6
Max Rad	1383.7	692.0	621.4	539.9	675.8	79.5	40.0	363.1	978.6	304.8	219.5	116.3	42.8
Skywave Field	4.51	7.12	7.73	8.45	65.1	53.4	103	111	4.04	12.5	16.9	31.5	60.9
Limit	1.24691	0.98607	0.96029	0.91248	0.87950	0.84873	0.82200	0.80517	0.79119	0.76200	0.74299	0.73342	0.52146
Running RSS	1.2469	1.5897	1.8572	2.0693	2.2484	2.4033	2.5400	2.6646	2.7796	2.8822	2.9764		
			(50%)								(25%)		

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ US N Lat 43 04 15 W Long 87 51 45														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point E														
Limit from	YVNO T	JBC T	XENK T	KTAR A	WDAF T	WVMT A	WRJZ A	WTMT S	WZON S	HJEL T	KJSL A	WWNR A	WDAE A	WKHB S
IFRB Serial #	81001518	81000947								81003194				PROPOSED
Prefix/Freq	# 178/ 620	# 175/ 620	# 180/ 620	BL / 620	BL / 610	BL / 620	BL / 620	BL / 620	BL / 620	# 173/ 620	BL / 630	BL / 620	BL / 620	# 1/ 620
arn	Operatin	Operatin	Operatin		990714AAC	881229AE	791210AE	870529AF		Operatin			911118AA	
Distance (km)	3963.8	2953.4	2836.9	2349.7	726.5	1184.4	859.3	559.0	1535.8	4538.1	524.4	811.4	1754.4	744.5
Bearing	339.3	343.0	19.3	56.0	49.1	267.2	337.6	341.7	269.4	347.4	20.4	318.4	345.7	297.2
Radiation on Gnd	1383.7	692.0	621.4	547.6	690.9	189.8	79.9	44.7	315.6	978.6	418.4	66.4	219.3	42.9
Lower Angle	0.0	0.0	0.0	0.0	9.6	4.3	7.6	13.2	1.9	0.0	14.2	8.2	0.7	9.3
Upper Angle	0.0	0.0	0.0	0.5	16.6	8.7	13.6	21.9	5.4	0.0	23.3	14.6	3.8	16.1
Max Rad	1383.7	692.0	621.4	547.6	676.4	188.2	79.0	41.8	315.3	978.6	369.0	70.1	219.3	41.1
Skywave Field	4.40	6.93	7.56	8.37	63.1	21.9	49.9	93.9	12.3	3.96	103	52.9	16.2	58.0
Limit	1.21671	0.95958	0.93938	0.91710	0.85409	0.82397	0.78834	0.78528	0.77770	0.77438	0.75887	0.74220	0.71244	0.47638
Running RSS	1.2167	1.5496	1.8121	2.0310	2.2033	2.3523	2.4809	2.6022	2.7159	2.8241	2.9243	3.0170		
				(50%)								(25%)		
Nighttime limits to WTMJ US N Lat 43 23 00 W Long 87 51 30														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point F														
Limit from	YVNO T	WVMT A	JBC T	XENK T	KTAR A	WTMT S	WDAF T	WWNR A	WZON S	HJEL T	WRJZ A	KJSL A		WKHB S
IFRB Serial #	81001518		81000947							81003194				PROPOSED
Prefix/Freq	# 178/ 620	BL / 620	# 175/ 620	# 180/ 620	BL / 620	BL / 620	BL / 610	BL / 620	BL / 620	# 173/ 620	BL / 620	BL / 630		# 1/ 620
arn	Operatin	881229AE	Operatin	Operatin		870529AF	990714AAC			Operatin	791210AE			
Distance (km)	3994.3	1176.8	2985.4	2868.5	2361.5	591.7	747.9	835.7	1527.5	4571.2	890.8	556.9		757.8
Bearing	339.5	268.9	343.3	19.0	55.1	342.9	47.0	320.2	270.7	347.5	338.6	19.1		299.7
Radiation on Gnd	1383.7	218.1	692.0	621.4	555.0	50.3	690.9	77.7	326.9	978.6	76.2	417.6		44.0
Lower Angle	0.0	4.3	0.0	0.0	0.0	12.3	9.2	7.9	1.9	0.0	7.2	13.2		9.0
Upper Angle	0.0	8.8	0.0	0.0	0.4	20.7	16.0	14.1	5.4	0.0	13.0	22.0		15.8
Max Rad	1383.7	216.3	692.0	621.4	555.0	47.6	677.6	80.7	326.6	978.6	75.4	374.6		42.8
Skywave Field	4.29	21.9	6.75	7.36	8.22	86.0	60.0	50.1	12.3	3.87	46.7	94.0		56.0
Limit	1.18796	0.94812	0.93424	0.91463	0.91210	0.81892	0.81257	0.80884	0.80340	0.75770	0.70520	0.70433		0.47849
Running RSS	1.1880	1.5200	1.7842	2.0050	2.2027	2.3500	2.4865	2.6147	2.7353	2.8383				
				(50%)						(25%)				

TABLE 4											
DETAILED TABULATION OF NIGHT LIMIT CALCULATOINS											

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ				US N Lat 44 10 30 W Long 87 30 45															
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point I																			
		#####					#####												
Limit from IFRB Serial #	WVMT A	WTVN S Granted	YVNO T 81001518	WWNR A	WTMT S	WZON S	WTVN A Licensed	JBC T	KTAR A	XENK T	HJEL T	WKHB S 81003194 PROPOSED							
Prefix/Freq arn	BL / 620 881229AE	BP / 610 971126AF	# 178/ 620 Operatin	BL / 620	BL / 620 870529AF	BL / 620	BL / 610 791010AJ	# 175/ 620 Operatin	BL / 620	# 180/ 620 Operatin	# 173/ 620 Operatin	# 1/ 620							
Distance (km)	1135.4	638.5	4059.3	883.4	668.7	1483.5	607.3	3057.1	2418.2	2960.0	4647.3	774.2							
Bearing	273.0	324.7	340.5	325.5	347.5	273.8	323.4	344.4	53.4	18.7	348.2	306.5							
Radiation on Gnd	296.2	742.0	1383.7	116.4	70.3	356.7	501.0	692.0	571.6	621.4	978.6	66.6							
Lower Angle	4.7	11.3	0.0	7.3	10.6	2.2	12.0	0.0	0.0	0.0	0.0	8.8							
Upper Angle	9.3	19.1	0.0	13.1	18.2	5.8	20.1	0.0	0.2	0.0	0.0	15.4							
Max Rad	293.2	881.0	1383.7	117.3	68.1	356.3	556.9	692.0	571.6	621.4	978.6	65.3							
Skywave Field	22.8	73.9	4.07	44.9	70.6	12.6	79.4	6.35	7.63	6.82	3.68	53.1							
Limit	1.33974	1.30181	1.12510	1.05444	0.96159	0.90075	0.88426	0.87840	0.87203	0.84756	0.71933	0.69346							
Running RSS	1.3397	1.8680	2.1807 (50%)	2.4223	2.6062	2.7575	-----	2.8940	3.0225	3.1391 (25%)									
Nighttime limits to WTMJ				US N Lat 44 30 00 W Long 87 29 00															
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.																			
Comments: All radiations are in mV/m at 1 km Clipping Point J																			
		#####					#####												
Limit from IFRB Serial #	WTVN S	WVMT A	YVNO T 81001518	WWNR A	WZON S	WTMT S	WTVN A	KTAR A	JBC T	XENK T	WKHB S 81000947 PROPOSED								
Prefix/Freq arn	BP / 610 971126AF	BL / 620 881229AE	# 178/ 620 Operatin	BL / 620	BL / 620	BL / 620 870529AF	BL / 610 791010AJ	BL / 620	# 175/ 620 Operatin	# 180/ 620 Operatin	# 1/ 620								
Distance (km)	665.8	1129.2	4090.4	910.5	1475.7	703.3	634.1	2433.5	3090.1	2993.8	791.6								
Bearing	326.8	274.8	340.8	327.0	275.2	348.4	325.7	52.6	344.7	18.5	308.8								
Radiation on Gnd	977.3	333.6	1383.7	128.7	370.8	73.5	580.4	579.1	692.0	621.4	78.2								
Lower Angle	10.7	4.7	0.0	6.9	2.2	10.0	11.4	0.0	0.0	0.0	8.5								
Upper Angle	18.2	9.4	0.0	12.6	5.9	17.2	19.2	0.1	0.0	0.0	15.0								
Max Rad	1119.4	330.3	1383.7	129.0	370.3	71.6	625.3	579.1	692.0	621.4	76.6								
Skywave Field	68.8	22.8	3.97	42.4	12.6	64.8	73.8	7.45	6.17	6.63	50.8								
Limit	1.53982	1.50649	1.09753	1.09345	0.93259	0.92810	0.92347	0.86324	0.85439	0.82382	0.77804								
Running RSS	1.5398	2.1542	2.4177 (50%)	2.6535	2.8126	2.9618	-----	3.0850	3.2011	3.3054 (25%)									

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

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TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ														
US N Lat 44 18 00 W Long 88 33 00														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point M														
Limit from	WVMT A	YVNO T	KTAR A	XENK T	JBC T	WZON S	CKCK S	WDAF T	WWNR A	KMNS A	HJEL T	WKHB S		
IFRB Serial #	81001518	81001518			81000947		120612				81003194	PROPOSED		
Prefix/Freq	BL / 620	# 178/ 620	BL / 620	# 180/ 620	# 175/ 620	BL / 620	# 149/ 620	BL / 610	BL / 620	BL / 620	# 173/ 620	# 1/ 620		
arn	881229AE	Operatin		Operatin	Operatin		Operatin	990714AAC		850709AC	Operatin			
Distance (km)	1215.8	4110.3	2346.7	2939.3	3100.8	1562.8	1380.2	776.9	947.9	673.6	4685.1	852.8		
Bearing	274.2	339.5	52.3	17.1	343.0	274.8	112.8	38.5	322.1	68.8	347.2	304.4		
Radiation on Gnd	319.9	1383.7	581.8	621.4	692.0	367.1	290.5	690.9	91.0	13.3	978.6	57.6		
Lower Angle	4.0	0.0	0.0	0.0	0.0	1.7	2.8	8.7	6.5	10.5	0.0	7.7		
Upper Angle	8.4	0.0	0.5	0.0	0.0	5.2	6.7	15.3	12.0	18.0	0.0	13.7		
Max Rad	317.6	1383.7	581.8	621.4	692.0	366.8	290.0	679.0	92.8	55.4	978.6	56.7		
Skywave Field	19.8	3.94	8.15	6.92	6.15	11.2	13.0	55.5	39.7	65.6	3.60	44.9		
Limit	1.25741	1.09146	0.94880	0.85976	0.85150	0.82028	0.75625	0.75429	0.73736	0.72701	0.70536	0.50995		
Running RSS	1.2574	1.6650	1.9164	2.1004	2.2664	2.4103	2.5262	2.6364	2.7376	2.8325				
			(50%)							(25%)				
Nighttime limits to WTMJ														
US N Lat 43 48 00 W Long 88 48 30														
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.														
Comments: All radiations are in mV/m at 1 km Clipping Point N														
Limit from	YVNO T	WVMT A	KTAR A	XENK T	JBC T	WDAF T	WZON S	CKCK S	HJEL T	KMNS A	WDAE A	WKHB S		
IFRB Serial #	81001518				81000947			120612	81003194			PROPOSED		
Prefix/Freq	# 178/ 620	BL / 620	BL / 620	# 180/ 620	# 175/ 620	BL / 610	BL / 620	# 149/ 620	# 173/ 620	BL / 620	BL / 620	# 1/ 620		
arn	Operatin	881229AE		Operatin	Operatin	990714AAC		Operatin	Operatin	850709AC	911118AA			
Distance (km)	4071.7	1243.9	2306.4	2880.1	3057.9	722.3	1592.9	1396.0	4638.7	640.3	1855.5	846.6		
Bearing	338.9	271.7	53.4	17.1	342.2	40.3	273.0	115.2	346.7	73.0	344.2	300.4		
Radiation on Gnd	1383.7	270.5	571.4	621.4	692.0	690.9	348.3	283.2	978.6	14.2	224.3	45.2		
Lower Angle	0.0	3.8	0.0	0.0	0.0	9.6	1.6	2.7	0.0	11.2	0.3	7.7		
Upper Angle	0.0	8.1	0.7	0.0	0.0	16.7	4.9	6.6	0.0	19.0	3.2	13.9		
Max Rad	1383.7	268.7	571.4	621.4	692.0	676.4	348.0	282.8	978.6	49.4	224.3	44.4		
Skywave Field	4.08	19.3	8.59	7.27	6.39	63.1	11.0	13.1	3.72	71.9	14.4	46.1		
Limit	1.12812	1.03616	0.98129	0.90322	0.88381	0.85316	0.76412	0.73930	0.72833	0.71069	0.64685	0.40898		
Running RSS	1.1281	1.5317	1.8191	2.0310	2.2150	2.3736	2.4936	2.6009	2.7010	2.7929				
			(50%)							(25%)				

TABLE 4

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

Nighttime limits to WTMJ												
US N Lat 43 14 45 W Long 88 47 00												
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.												
Comments: All radiations are in mV/m at 1 km Clipping Point O												
Limit from	YVNO T	KTAR A	XENK T	WDAF T	JBC T	WVMT A	HJEL T	WZON S	KJSL A	CKCK S	WDAE A	WKHB S
IFRB Serial #	81001518				81000947		81003194			120612		PROPOSED
Prefix/Freq	# 178/ 620	BL / 620	# 180/ 620	BL / 610	# 175/ 620	BL / 620	# 173/ 620	BL / 620	BL / 630	# 149/ 620	BL / 620	# 1/ 620
arn	Operatin		Operatin	990714AAC	Operatin	881229AE	Operatin			Operatin	911118AA	
Distance (km)	4017.2	2286.0	2824.1	681.0	3000.7	1253.2	4579.7	1603.9	520.7	1435.3	1796.8	821.2
Bearing	338.4	54.9	17.7	44.0	341.8	268.9	346.5	270.8	12.0	117.2	343.6	296.6
Radiation on Gnd	1383.7	557.6	621.4	690.9	692.0	218.2	978.6	327.5	398.7	282.5	225.3	43.3
Lower Angle	0.0	0.0	0.0	10.4	0.0	3.7	0.0	1.5	14.3	2.5	0.5	8.1
Upper Angle	0.0	0.8	0.0	17.8	0.0	8.0	0.0	4.9	23.5	6.2	3.5	14.4
Max Rad	1383.7	557.6	621.4	673.9	692.0	216.9	978.6	327.3	350.2	282.1	225.3	41.8
Skywave Field	4.25	8.87	7.62	69.8	6.70	19.4	3.87	11.1	104	12.6	15.5	49.1
Limit	1.17738	0.98979	0.94704	0.94092	0.92682	0.84167	0.75714	0.72687	0.72663	0.71262	0.69811	0.41073
Running RSS	1.1774	1.5382	1.8064	2.0368	2.2378	2.3908	2.5078	2.6110	2.7102	2.8023		
				(50%)						(25%)		
Nighttime limits to WTMJ												
US N Lat 42 45 30 W Long 89 07 00												
File No./arn - 620 kHz FCC Rules (10%) IFRB Serial No.												
Comments: All radiations are in mV/m at 1 km Clipping Point P												
Limit from	WRJZ A	YVNO T	WDAF T	KTAR A	XENK T	JBC T	WTMT S	KMNS A	KJSL A	HJEL T	WDAE A	WKHB S
IFRB Serial #		81001518				81000947				81003194		PROPOSED
Prefix/Freq	BL / 620	# 178/ 620	BL / 610	BL / 620	# 180/ 620	# 175/ 620	BL / 620	BL / 620	BL / 630	# 173/ 620	BL / 620	# 1/ 620
arn	791210AE	Operatin	990714AAC		Operatin	Operatin	870529AF	850709AC		Operatin	911118AA	
Distance (km)	878.3	3984.0	624.8	2241.8	2763.6	2962.7	571.8	601.8	462.1	4537.2	1755.8	829.9
Bearing	330.6	337.6	46.1	55.9	17.6	340.8	330.8	83.4	10.2	345.9	342.1	292.4
Radiation on Gnd	134.1	1383.7	690.9	547.9	621.4	692.0	52.0	19.0	390.2	978.6	227.1	51.6
Lower Angle	7.3	0.0	11.6	0.0	0.0	0.0	12.8	12.1	16.3	0.0	0.7	8.0
Upper Angle	13.2	0.0	19.5	1.0	0.0	0.0	21.4	20.3	26.3	0.0	3.8	14.2
Max Rad	130.1	1383.7	669.8	547.9	621.4	692.0	50.0	51.6	329.2	978.6	227.0	49.4
Skywave Field	48.4	4.38	80.2	9.37	8.01	6.92	91.3	80.7	123	3.99	16.3	48.7
Limit	1.25901	1.21267	1.07464	1.02693	0.99588	0.95837	0.91364	0.83169	0.80882	0.78001	0.74123	0.48152
Running RSS	1.2590	1.7480	2.0519	2.2945	2.5013	2.6786	2.8301	2.9498	3.0587	3.1566		
				(50%)						(25%)		

[illegible]

DETAILED TABULATION OF NIGHT LIMIT CALCULATIONS

[illegible]