

ENGINEERING EXHIBIT
APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
CLEAR CHANNEL BROADCASTING LICENSES, INC.
RADIO STATION WFLF
PINE HILLS, FLORIDA

June 11, 2009

540 KHZ 50 KW-D 46 KW-N U DA-2

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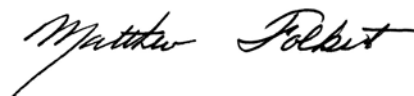
Engineering Statement

The engineering exhibit of which this statement is part was prepared on behalf of Clear Channel Broadcasting Licenses, Inc., the licensee of AM broadcast station WFLF, Pine Hills, Florida, in support of an application for modification of construction permit covering construction authorized in Permit No. BP-20051101ABN. This construction permit authorizes operation on 540 kilohertz, with a daytime power of 50 kilowatts and a nighttime power of 46 kilowatts employing different directional antenna patterns from the same site.

After the completion of field work at the station, it was determined that both the daytime and nighttime directional antenna patterns would require augmentation. The field strength values on one radial daytime and two radials nighttime were found to be outside the standard pattern authorized by the construction permit. The proposed augmentation is completely consistent with the FCC Rules, as it will provide the requisite levels of protection to all pertinent stations.

The proposed modified daytime directional antenna pattern is shown in graphical form on Figure 1 and in tabular form on Figure 2. Figure 3 is a daytime allocation study for the span of augmentation. The proposed modified nighttime directional antenna pattern is shown in graphical form on Figure 4 and in tabular form on Figure 5. Figure 6 is a nighttime allocation study. As will be noted on Figure 3 and Figure 6, the increase in radiation proposed for the WFLF patterns will not result in new interference toward any station.

In all respects, the proposed modified standard pattern complies with the requirements of 47CFR73.152.

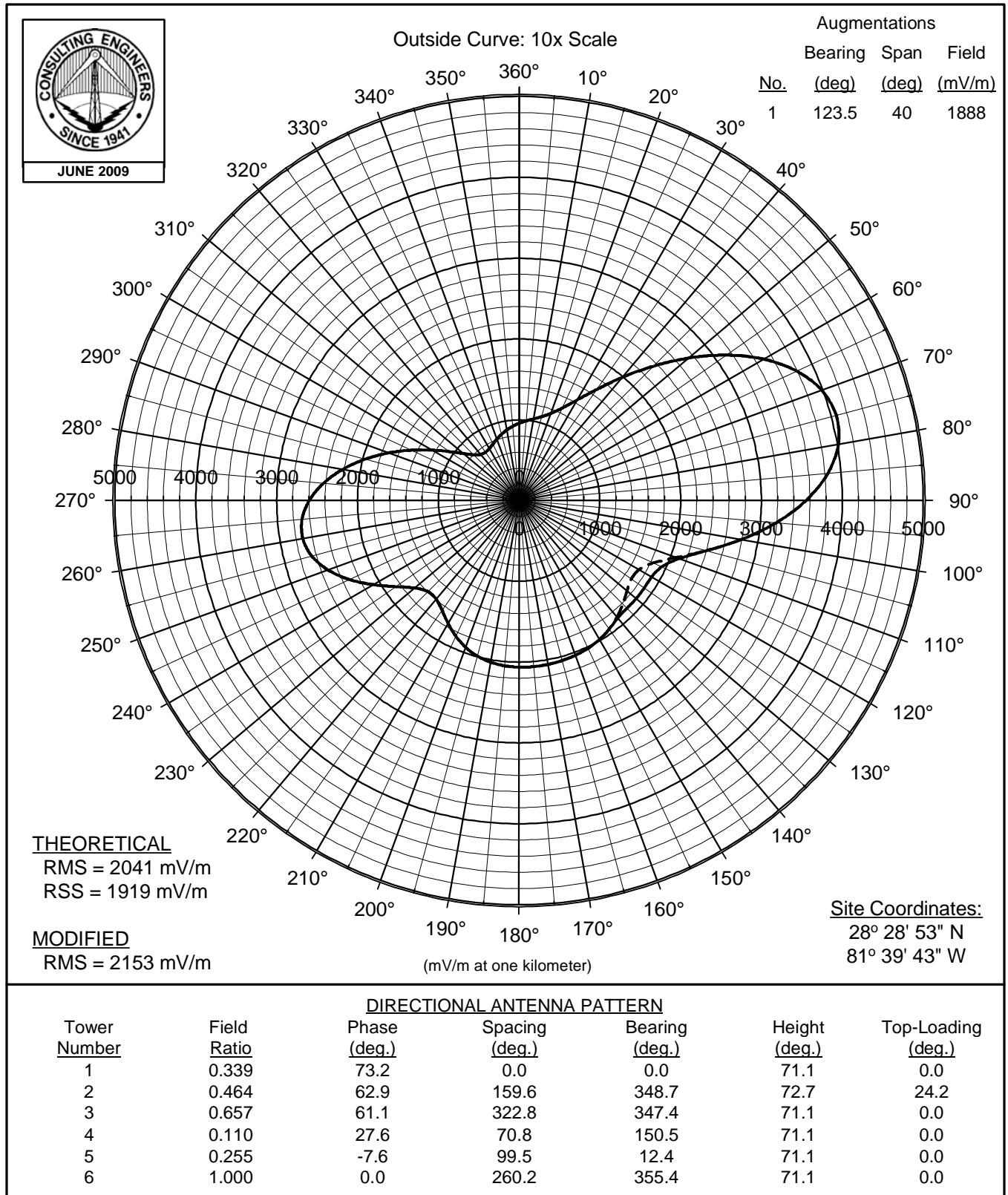


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June 11, 2009

Figure 1



DAYTIME HORIZONTAL PLANE MODIFIED RADIATION PATTERN

RADIO STATION WFLF
PINE HILLS, FLORIDA
540 KHZ 50 KW-D 46 KW-N U DA-2

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
RADIO STATION WFLF
PINE HILLS, FLORIDA

540 KHZ 50 KW-D 46 KW-N U DA-2

DAYTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

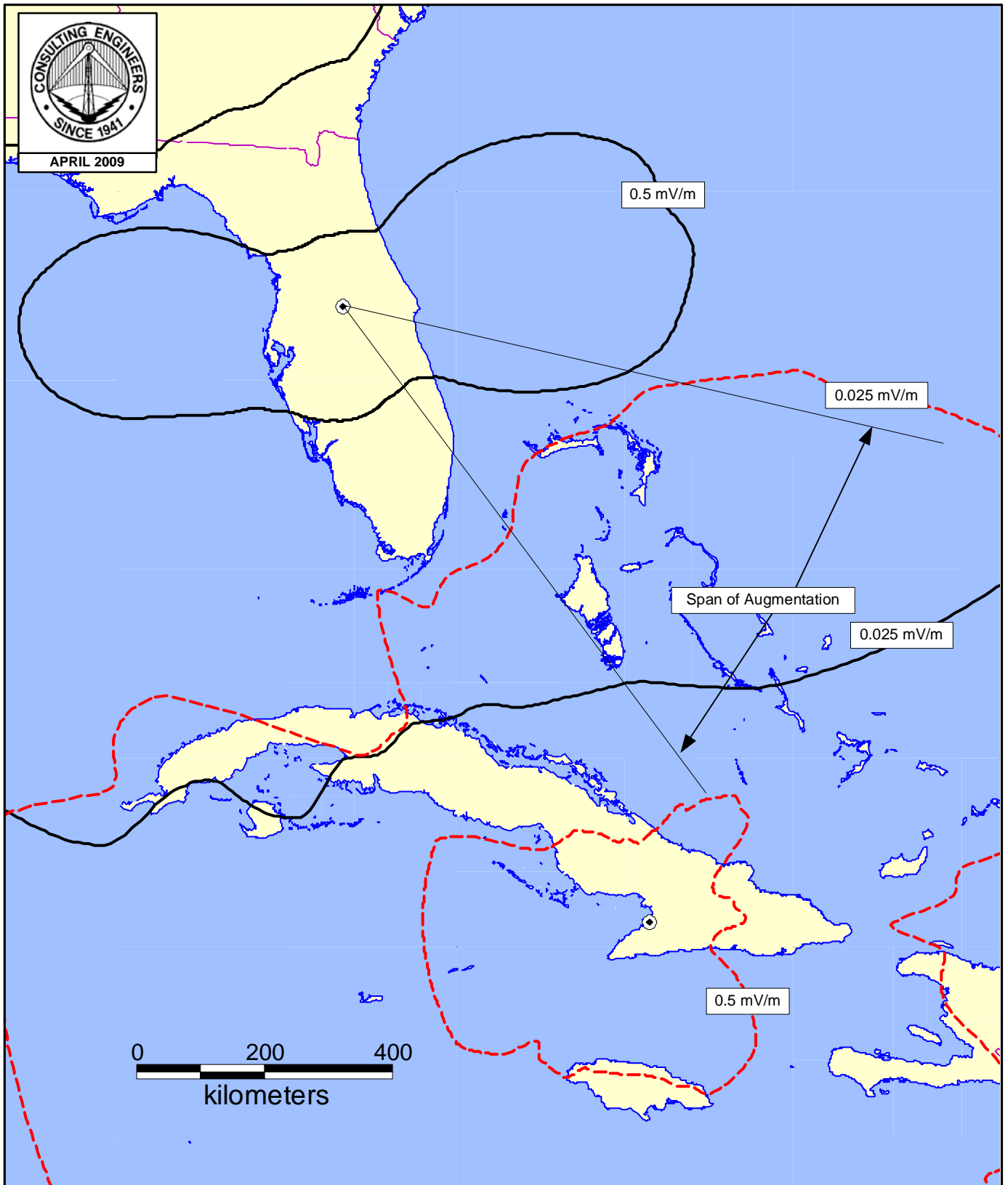
<u>Tower Number</u>	<u>Field Ratio</u>	<u>Phase (deg.)</u>	<u>Spacing (deg.)</u>	<u>Bearing (deg.)</u>	<u>Height (deg.)</u>	<u>Loading (deg.)</u>
1	0.339	+73.2	0.0	0.0	71.1	0.0
2	0.464	+62.9	159.6	348.7	72.7	24.2
3	0.657	+61.1	322.8	347.4	71.1	0.0
4	0.110	+27.6	70.8	150.5	71.1	0.0
5	0.255	-7.6	99.5	12.4	71.1	0.0
6	1.000	0.0	260.2	355.4	71.1	0.0
<u>Input Power (kW)</u>	<u>Loop Loss (ohms)</u>	<u>Theo. RMS (mV/m)</u>	<u>Theo. RSS (mV/m)</u>	<u>Q Factor (mV/m)</u>	<u>Modified RMS (mV/m)</u>	
50	1.0	2041	1919	70.7	2153	

Augmentation

<u>No.</u>	<u>Bearing (deg)</u>	<u>Span (deg)</u>	<u>Field (mV/m)</u>
1	123.5	40	1888

<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>
0	955	90	3550	180	2062	270	2594
5	988	95	3188	185	2052	275	2428
10	1024	100	2788	190	2030	280	2215
15	1072	105	2399	195	1991	285	1972
20	1145	110	2104	200	1931	290	1718
25	1260	115	1944	205	1850	295	1472
30	1434	120	1892	210	1753	300	1247
35	1676	125	1889	215	1657	305	1055
40	1985	130	1889	220	1592	310	904
45	2348	135	1886	225	1592	315	800
50	2741	140	1898	230	1682	320	743
55	3135	145	1943	235	1856	325	726
60	3496	150	1987	240	2081	330	738
65	3790	155	2018	245	2313	335	767
70	3987	160	2038	250	2513	340	804
75	4064	165	2051	255	2653	345	844
80	4012	170	2059	260	2715	350	884
85	3835	175	2063	265	2694	355	921

Figure 3

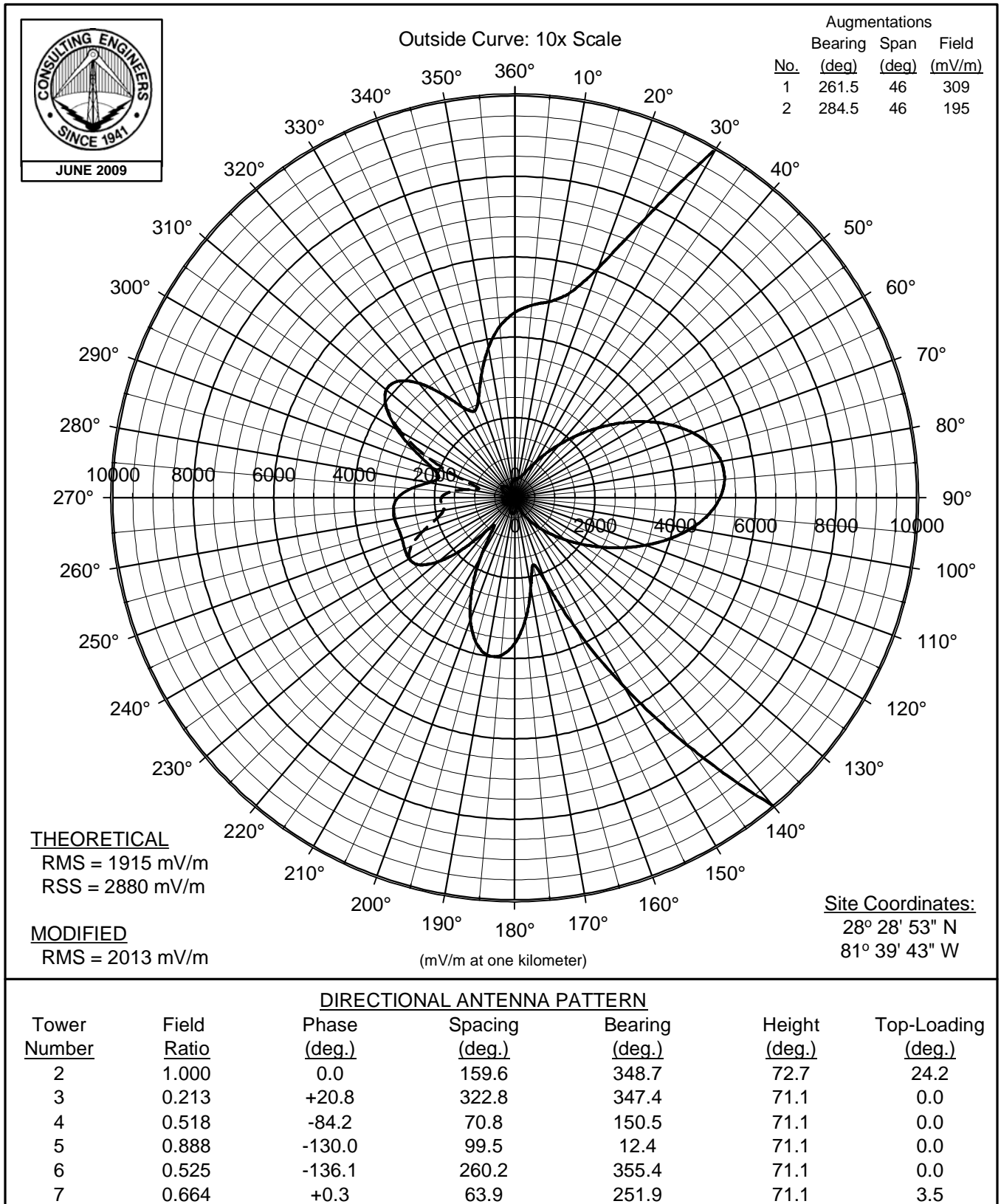


DAYTIME ALLOCATION STUDY

RADIO STATION WFLF
PINE HILLS, FLORIDA
540 KHZ 50 KW-D 46 KW-N U DA-2

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 4



NIGHTTIME HORIZONTAL PLANE MODIFIED RADIATION PATTERN

RADIO STATION WFLF
PINE HILLS, FLORIDA
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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

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NIGHTTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

<u>Tower Number</u>	<u>Field Ratio</u>	<u>Phase (deg.)</u>	<u>Spacing (deg.)</u>	<u>Bearing (deg.)</u>	<u>Height (deg.)</u>	<u>Height (deg.)</u>
2	1.000	0.0	159.6	348.7	72.7	24.2
3	0.213	+20.8	322.8	347.4	71.1	0.0
4	0.518	-84.2	70.8	150.5	71.1	0.0
5	0.888	-130.0	99.5	12.4	71.1	0.0
6	0.525	-136.1	260.2	355.4	71.1	0.0
7	0.664	+0.3	63.9	251.9	71.1	3.5

<u>Input Power (kW)</u>	<u>Loop Loss (ohms)</u>	<u>Theo. RMS (mV/m)</u>	<u>Theo. RSS (mV/m)</u>	<u>Q Factor (mV/m)</u>	<u>Modified RMS (mV/m)</u>
46	1.0	1915	2880	72.0	2013

<u>Augmentation</u>			
<u>No.</u>	<u>Bearing (deg)</u>	<u>Span (deg)</u>	<u>Field (mV/m)</u>
1	261.5	46	309
2	284.5	46	195

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
0	462	449	412	368	347	383	477
5	481	470	443	416	415	465	563
10	496	489	476	471	497	564	668
15	528	527	532	553	604	688	797
20	608	615	636	680	750	844	954
25	764	775	808	865	944	1041	1146
30	1005	1018	1055	1115	1193	1282	1374
35	1329	1341	1375	1429	1497	1570	1640
40	1728	1737	1765	1806	1854	1903	1943
45	2193	2199	2214	2236	2259	2274	2276
50	2708	2709	2709	2707	2697	2673	2629
55	3251	3246	3229	3199	3152	3084	2990
60	3792	3781	3746	3686	3600	3485	3339
65	4297	4279	4226	4138	4013	3853	3657
70	4726	4703	4634	4520	4362	4161	3922
75	5046	5018	4937	4802	4618	4388	4115
80	5226	5196	5107	4961	4761	4513	4221
85	5251	5221	5130	4981	4778	4526	4231
90	5119	5090	5004	4862	4668	4426	4143
95	4844	4818	4741	4614	4440	4222	3964
100	4452	4430	4366	4260	4113	3928	3707
105	3979	3962	3913	3831	3716	3570	3392
110	3463	3452	3417	3360	3278	3171	3039
115	2944	2937	2916	2880	2829	2760	2671
120	2451	2448	2438	2420	2394	2357	2307
125	2006	2005	2003	1999	1992	1981	1963
130	1618	1619	1622	1628	1635	1642	1647
135	1286	1288	1295	1307	1324	1344	1367
140	1001	1005	1015	1033	1057	1087	1123
145	755	760	774	797	828	867	912
150	540	547	565	594	632	678	733
155	356	363	386	420	465	519	580
160	217	225	247	283	330	387	453
165	174	175	181	200	235	286	351
170	230	223	208	193	193	220	274
175	305	295	269	232	199	189	221

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
0	603	735	853	941	987	984	928
5	688	815	927	1007	1044	1032	965
10	791	913	1016	1085	1111	1085	1004
15	916	1030	1121	1177	1187	1144	1048
20	1067	1169	1244	1281	1272	1210	1094
25	1246	1330	1385	1399	1366	1280	1144
30	1456	1516	1544	1530	1468	1356	1195
35	1695	1725	1720	1672	1578	1435	1248
40	1963	1955	1910	1824	1692	1517	1302
45	2253	2201	2111	1981	1809	1598	1355
50	2558	2455	2316	2138	1925	1678	1405
55	2866	2708	2517	2292	2035	1753	1452
60	3161	2949	2706	2434	2137	1821	1494
65	3427	3165	2873	2558	2224	1879	1529
70	3647	3341	3010	2658	2294	1924	1557
75	3807	3468	3106	2728	2342	1955	1574
80	3893	3535	3156	2764	2365	1969	1582
85	3899	3538	3156	2762	2362	1966	1579
90	3823	3475	3106	2722	2333	1945	1566
95	3671	3350	3007	2647	2278	1908	1542
100	3454	3171	2864	2539	2200	1854	1508
105	3184	2949	2687	2404	2102	1787	1466
110	2881	2696	2485	2248	1988	1709	1416
115	2561	2427	2266	2078	1863	1622	1361
120	2241	2153	2042	1901	1731	1530	1301
125	1933	1887	1819	1724	1597	1435	1239
130	1647	1636	1607	1552	1465	1340	1176
135	1390	1406	1408	1389	1337	1247	1113
140	1162	1199	1228	1237	1217	1158	1053
145	964	1018	1066	1100	1107	1075	995
150	794	860	925	978	1007	998	941
155	649	725	802	871	918	929	891
160	528	611	698	779	841	868	847
165	429	517	611	702	775	815	807
170	350	441	540	638	720	770	773
175	289	381	485	588	676	733	743

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
180	363	352	320	273	221	182	186
185	395	383	349	297	235	179	164
190	398	386	351	298	232	169	145
195	373	361	328	275	210	146	129
200	322	311	279	229	168	114	122
205	251	241	211	166	114	88.8	138
210	166	157	132	97.4	74.6	107	181
215	90.6	85.9	76.2	77.9	109	167	241
220	102	105	118	144	185	240	306
225	178	182	197	223	261	310	368
230	247	252	266	290	324	368	420
235	291	296	310	333	365	407	456
240	304	309	323	347	381	424	473
245	303	308	323	348	383	428	480
250	301	305	319	343	378	424	478
255	303	306	316	335	367	412	469
260	309	309	312	324	350	393	451
265	308	306	303	307	326	367	427
270	294	291	284	282	298	339	402
275	261	257	248	245	263	309	379
280	217	212	204	205	231	286	363
285	195	191	185	190	221	281	361
290	218	213	206	207	233	289	367
295	273	267	255	247	261	305	375
300	337	331	314	297	296	326	386
305	390	382	362	338	327	345	396
310	418	409	387	360	343	355	402
315	411	402	379	351	333	346	395
320	373	364	341	312	297	316	375
325	316	307	281	250	239	271	347
330	261	250	217	178	166	218	317
335	238	223	180	120	95.1	173	295
340	262	246	198	126	77.4	158	290
345	318	301	254	186	137	186	308
350	378	362	317	254	210	242	348
355	428	413	371	316	281	309	405

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
180	245	337	444	551	643	704	720
185	214	308	417	526	619	682	701
190	196	292	403	512	605	667	686
195	190	291	402	509	599	658	676
200	201	304	413	515	600	655	669
205	228	331	434	530	607	655	666
210	271	368	463	550	618	660	665
215	324	412	497	574	633	666	666
220	380	458	533	599	649	675	668
225	434	501	567	624	665	683	671
230	478	538	596	645	679	691	674
235	510	566	619	662	691	699	677
240	527	582	633	675	700	704	680
245	536	592	643	684	708	710	684
250	537	596	649	691	715	716	688
255	531	594	650	694	720	720	692
260	517	585	646	693	721	723	694
265	498	571	637	689	719	723	696
270	478	556	627	683	717	723	697
275	461	544	619	679	715	723	698
280	450	537	615	677	715	724	699
285	450	538	616	678	717	727	703
290	454	541	620	682	721	731	707
295	459	545	623	686	725	735	711
300	465	549	627	690	730	741	717
305	471	554	632	696	736	748	724
310	474	558	638	703	745	757	732
315	471	559	642	711	754	767	742
320	461	557	646	719	765	779	754
325	448	553	650	728	778	793	767
330	434	551	657	740	793	809	782
335	427	555	668	756	812	828	799
340	431	566	685	777	834	850	819
345	449	588	710	805	862	876	841
350	485	623	746	840	897	907	867
355	536	672	793	885	938	943	896

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APPLICATION FOR
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PINE HILLS, FLORIDA

540 KHZ 50 KW-D 46 KW-N U DA-2

Nighttime Allocation Study

Night Allocation Protection Report

Call: WFLF
Freq: 540 kHz
PINE HILLS, FL, US
Hours: N
Lat: 28-28-53 N
Lng: 081-39-43 W
Power: 46.0 kW
Theo RMS: 1914.53 mV/m @ 1km @ 46.0 kW
of Augmentations: 2

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	159.6	348.7	0.0	0	1	72.7	24.2	0.0	0.0
2	0.213	20.8	322.8	347.4	71.1	0	0	0.0	0.0	0.0	0.0
3	0.518	-84.2	70.8	150.5	71.1	0	0	0.0	0.0	0.0	0.0
4	0.888	-130.0	99.5	12.4	71.1	0	0	0.0	0.0	0.0	0.0
5	0.525	-136.1	260.2	355.4	71.1	0	0	0.0	0.0	0.0	0.0
6	0.664	0.3	63.9	251.9	0.0	0	1	71.1	3.5	0.0	0.0

Augmentations:

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	261.50	309.00	46.0
2	284.50	195.00	46.0

Figure 6
Sheet 2 of 3

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
NEW	US	TN	MASCOT	56.95	3.565	312.99	312.38	0.61
50% = 11.727, 25% = 13.822; XEWA/ =10.45 WWCS=5.33 WRGC=3.80 WAUK=3.66 WETC=3.61 WFLF=3.56								
WETC	US	NC	WENDELL-ZEBULON	55.97	7.254	648.02	646.72	1.30
50% = 16.152, 25% = 18.207; CJSB/A=11.69 WFLF=8.06 XEWA/ =7.70 WWCS=6.97 WGOP=4.69								
WETC	US	NC	WENDELL-ZEBULON	55.97	7.254	648.02	646.72	1.30
50% = 16.152, 25% = 18.207; CJSB/A=11.69 WFLF=8.06 XEWA/ =7.70 WWCS=6.97 WGOP=4.69								
WRGC	US	NC	SYLVA	66.68	4.456	334.10	330.59	3.51
50% = 10.611, 25% = 14.417; XEWA/ =10.61 WWCS=5.12 WETC=4.64 WFLF=4.46 CJSB/A=3.80 KMLB=3.64								
WRGC	US	NC	SYLVA	66.41	4.416	332.48	327.71	4.77
50% = 10.627, 25% = 14.382; XEWA/ =10.63 WWCS=5.11 WETC=4.59 WFLF=4.42 CJSB/A=3.75 KMLB=3.63								
CMNA-D	CU		MANZANILLO	24.93	2.391	479.57	474.69	4.88
50% = 4.782, 25% = 5.826; YVOV-A=4.78 HICM-C=2.09 XEWA/ =2.01 WFLF=1.64								
XEWA/ (45)	MX	SL	SOLEDAD DE GRAC	23.28	1.756	377.11s	308.76	68.35
XEWA/A (45)	MX	SL	SAN LUIS POTOSI	23.11	1.798	389.01s	308.81	80.20
CBK/A (105)	CA	SK	WATROUS	6.68	0.500	374.27S	281.69	92.58
WGOP	US	MD	POCOMOKE CITY	33.19	6.351	956.86	856.44	100.42
50% = 20.649, 25% = 23.575; CJSB/A=20.65 WWCS=7.39 WFLF=6.35 XEWA/ =5.87								
XEWA/O (115)	MX	SL	SAN LUIS POTOSI	23.62	0.999	211.42s	100.21	111.21
WWCS	US	PA	CANONSBURG	27.83	3.333	598.87	478.28	120.59
50% = 12.957, 25% = 13.379; CJSB/A=9.10 XEWA/ =6.53 CBEF/A=6.52 WGOP=3.33								
YSHV-B (350)	ES		SAN SALVADOR	10.36	0.500	241.28S	87.38	153.90
CBEF/A	CA	ON	WINDSOR	25.14	3.021	600.90	424.35	176.55
50% = 6.041, 25% = 7.003; CBK/A=4.74 XEWA/ =3.74 WGOP=2.45 CBGA-1/A=1.85 WAUK=1.76								
WXNH	US	NH	JAFFREY	14.81	3.311	1117.74	811.12	306.61
50% = 10.204, 25% = 13.245; CJSB/A=10.20 WLIE=4.78 CBEF/A=4.76 XEWA/ =3.76 CBGA-1/A=3.41								
WXNH	US	NH	JAFFREY	15.06	3.483	1156.21	803.57	352.64
50% = 11.495, 25% = 13.931; CJSB/A=11.49 WLIE=4.98 CBEF/A=4.76 XEWA/ =3.80								
WAUK	US	WI	JACKSON	16.04	2.195	684.20	286.07	398.13
50% = 8.296, 25% = 8.78; XEWA/ =7.19 CBK/A=4.13 CBEF/A=2.87								
KMLB	US	LA	MONROE	40.55	6.111	753.57	292.77	460.80
50% = 24.444, 25% = 24.444; XEWA/ =24.44								
CBT/ (190)	CA	NF	GRAND FALLS	1.23	0.500	2034.20S	1571.28	462.92
KMLB	US	LA	MONROE	40.05	6.160	769.03	289.90	479.13
50% = 24.638, 25% = 24.638; XEWA/ =24.64								
WGOP	US	MD	DAMASCUS	30.02	6.823	1136.49	571.05	565.43
50% = 24.607, 25% = 27.291; CJSB/A=24.61 WWCS=11.80								
WLIE	US	NY	ISLIP	20.33	6.067	1492.52	872.72	619.80
50% = 21.977, 25% = 24.268; CJSB/A=21.98 WXNH=10.29								

Figure 6
Sheet 3 of 3

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WLIE	US	NY	ISLIP	20.33	6.067	1492.52	872.72	619.80
50% = 21.977, 25% = 24.268; CJSB/A=21.98 WXNH=10.29								
WLIE	US	NY	ISLIP	20.32	6.068	1492.76	872.67	620.10
50% = 21.978, 25% = 24.271; CJSB/A=21.98 WXNH=10.30								
WDUN	US	GA	GAINESVILLE	81.03	1.666	1028.06	227.44	800.62
50% = 6.063, 25% = 6.664; KTSA=3.63 RJR-A=3.59 WKRC=3.27 HCGB1-A=2.07 WGR=1.84								
YVOV-A (30)	VE		V DEL ROSARI	3.74	1.250	1670.47S	766.64	903.84
WPPI	US	MN	SAUK RAPIDS	9.80	2.877	1468.12	240.19	1227.93
50% = 11.508, 25% = 11.508; CBK/A=9.30 XEWA/ =6.78								
WKRC	US	OH	CINCINNATI	33.33	1.119	1678.11	347.96	1330.15
50% = 3.318, 25% = 4.536; RJR-A=2.13 KTRS=1.87 KTSA=1.73 HCGB1-A=1.51 WDUN=1.28 CP 153-A=1.27 WGR=1.22 KFYR=1.13 WSWA=1.12								
DKJJL	US	WY	PINE BLUFFS	8.48	3.772	2223.20	418.90	1804.30
50% = 15.087, 25% = 15.087; XEWA/ =11.30 CBK/A=10.00								
NEW	US	WY	PINE BLUFFS	8.46	3.772	2229.35	418.84	1810.52
50% = 15.087, 25% = 15.087; XEWA/ =11.29 CBK/A=10.00								
YNDW-B	NU		R CORPORACIO	5.07	2.442	2405.97	367.80	2038.16
50% = 4.884, 25% = 5.57; XEWA/ =4.08 YVOV-A=2.69 HCFA2-A=2.01 HJKA-A=1.77								
WIOZ	US	NC	PINEHURST	67.96	3.795	2792.19	556.33	2235.86
50% = 14.682, 25% = 15.181; WSWA=10.36 WDUN=7.71 WGR=6.99 WKRC=3.86								
KTRS	US	MO	ST. LOUIS	26.54	1.401	2639.00	282.67	2356.33
50% = 3.943, 25% = 5.604; WKRC=3.37 KTSA=2.05 RJR-A=1.89 WDUN=1.76 KCRS=1.59 KFYR=1.55 HCGB1-A=1.47 WSAU=1.45								
HICM-C	DR		S DOMINGO	7.91	6.478	4093.82	1607.45	2486.37
50% = 7.618, 25% = 7.618; YVOV-A=7.62								
WGR	US	NY	BUFFALO	18.83	1.205	3198.21	489.51	2708.70
50% = 3.669, 25% = 4.818; WKRC=2.77 CBEF/A=2.41 RJR-A=1.58 WIOZ=1.49 WSVA=1.36 CJSB/A=1.29 CFNB/A=1.24								
HJKA-A (350)	CO		BOGOTA 6	2.07	1.250	3017.02S	192.88	2824.15
KRXA	US	CA	CARMEL VALLEY	3.74	2.531	3380.46	262.58	3117.88
50% = 8.997, 25% = 10.125; XEWA/ =9.00 CBK/A=3.85 KUZZ=2.60								
NEW	US	ID	KUNA	3.75	2.833	3773.10	410.02	3363.09
50% = 11.332, 25% = 11.332; CBK/A=9.06 XEWA/ =6.81								
NEW	US	ID	STAR	3.68	2.820	3826.70	411.20	3415.50
50% = 11.279, 25% = 11.279; CBK/A=9.09 XEWA/ =6.68								
NEW	US	ID	STAR	3.67	2.811	3833.78	411.31	3422.47
50% = 11.244, 25% = 11.244; CBK/A=9.07 XEWA/ =6.65								
YVUR-B (345)	VE		S J MANAPIAR	1.44	1.250	4346.99S	794.24	3552.75
TICAL-B	CS		CARTAGO 1	3.70	3.342	4511.90	399.28	4112.62
50% = 6.684, 25% = 7.137; YVOV-A=4.34 HCFA2-A=3.83 HJKA-A=3.35 XEWA/ =2.50								