ENGINEERING EXHIBIT

APPLICATION FOR

MODIFICATION OF CONSTRUCTION PERMIT

RADIO STATION WNPL, GOLDEN GATE, FLORIDA

1460 Khz. 7.0 KW/2.0 KW DA-2

MARCH, 2009

ENGINEERING EXHIBIT
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
WNPL, GOLDEN GATE, FLORIDA

TABLE OF CONTENTS

APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
WNPL, GOLDEN GATE, FLORIDA

ENGINEERING STATEMENT

The Engineering Exhibit has been prepared on behalf of Fort Myers Broadcasting Company, the Permittee of WNPL, Golden Gate, Florida, in support of an application for modification of construction permit covering construction authorized in Permit No. BMP-20060918ABN. This construction permit authorizes operation on 1460 kilohertz, with a daytime power of 7.0 kw and nighttime power of 2.0 kw using separate directional antenna patterns (DA-2).

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 value on one nighttime radial was found to be outside the standard pattern authorized by the construction permit. Also, one daytime and two nighttime radials that did not exceed the standard pattern will be augmented in order to allow additional tolerance for monitoring point limits. 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 Exhibit 1 and in tabular form on Exhibit 2. Exhibit 3 is a daytime allocation study for the span of augmentation. The proposed modified nighttime directional antenna pattern is shown in graphical form on Exhibit 4 and in tabular form on Exhibit 5. Exhibit 6 is a nighttime allocation study for the span of augmentation. As will be noted from the allocation studies shown on Exhibit 3 and Exhibit 6, the increase in radiation proposed for the WNPL daytime and nighttime patterns will not result in new interference toward any station.

It should be noted that the tower configuration as shown in the construction permit does not agree with those shown on the existing license of co-located WNOG. To eliminate the confusion, the tower location parameters and numbering system in this application have been changed to agree with WNOG.

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

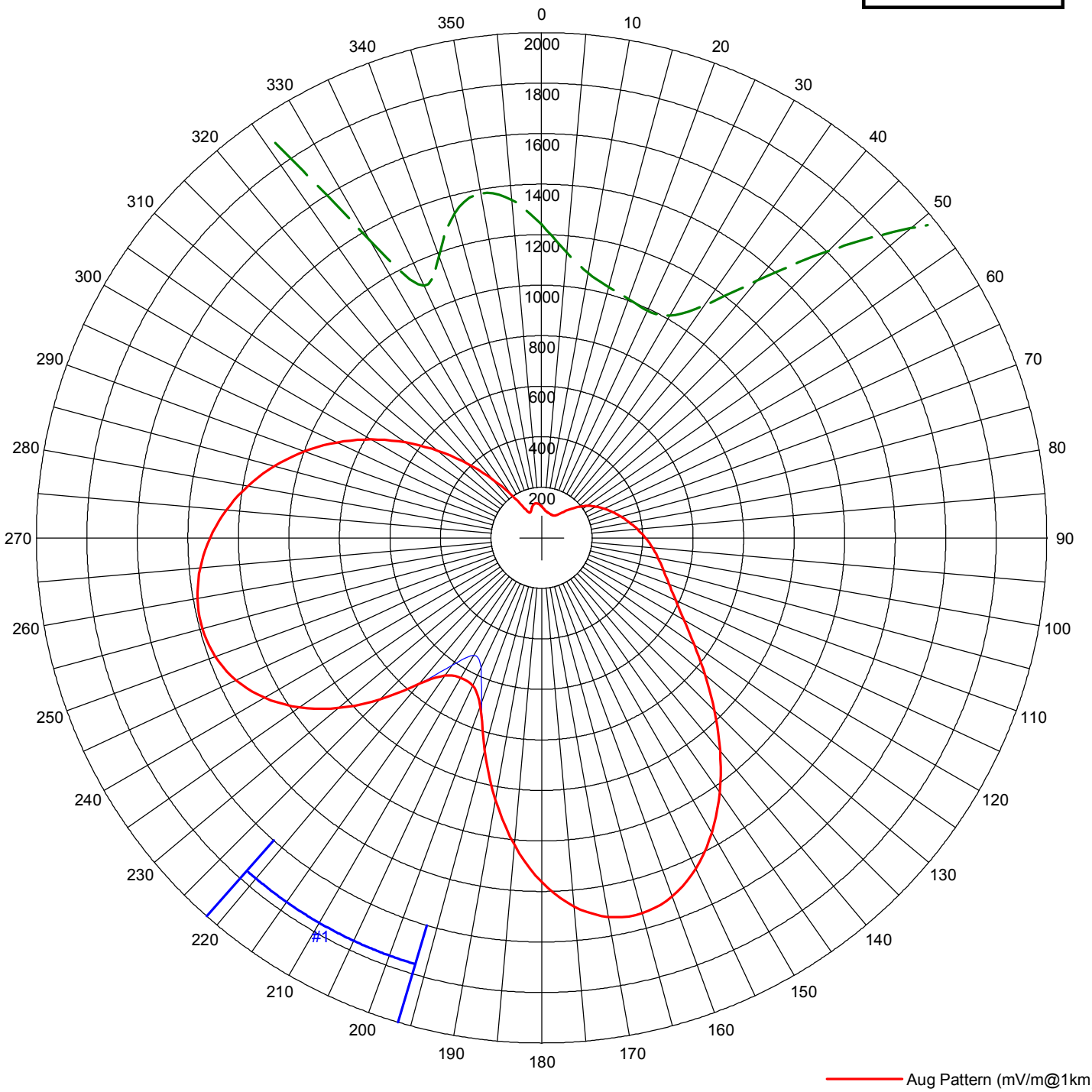
James M. Johnson

James M. Johnson & Associates
10144 Seagrape Way
Palm Beach Gardens, FL 33418
(561) 625-5900

March 25, 2009

AM Directional Pattern

EXHIBIT 1



Modified Standard Horizontal Plane Pattern

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch
1	0.556	81.3	249.5	277.0	82.3	0
2	1.000	0.0	0.0	0.0	82.3	0
3	0.401	164.0	265.0	300.0	82.3	0
4	1.008	74.1	103.5	10.0	82.3	0

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	209.00	639.00	25.0

Call: WNPL
Freq: 1460 kHz
GOLDEN GATE, FL, US
Hours: D
Lat: 26-15-26 N
Lng: 081-40-33 W
Power: 7.0 kW
Theo RMS: 805.43 mV/m@1km
@ 7.0 kW
# of Augmentations: 1

EXHIBIT 2

ENGINEERING EXHIBIT
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
RADIO STATION WNPL, GOLDEN GATE, FLORIDA

1460 Khz. 7.0 KW/2.0 KW DA-2

DAYTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

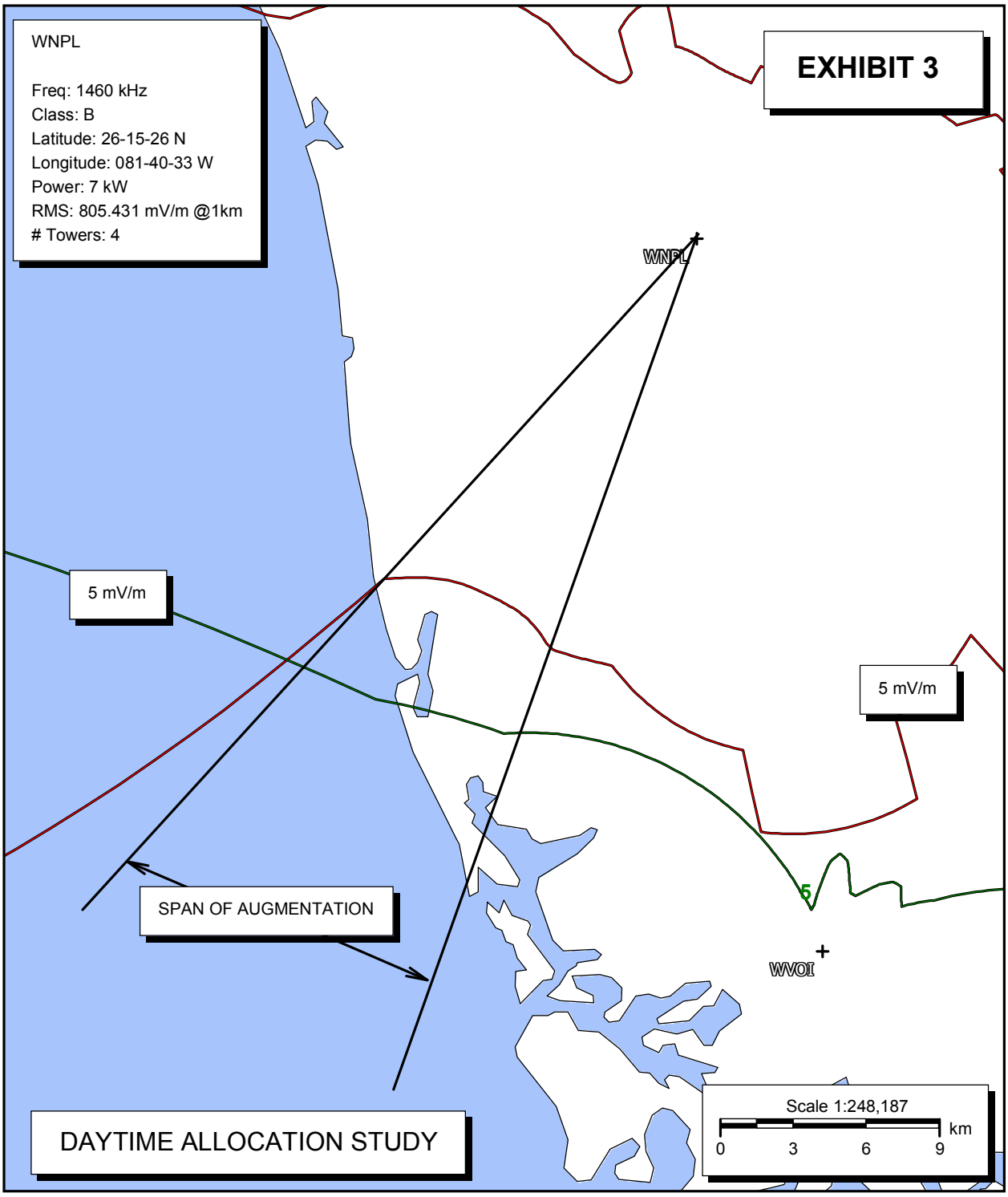
Tower Number	Field Ratio	Phase (deg.)	Spacing (deg.)	Bearing (deg.)	Height (deg.)
1(SW)	0.556	81.3	249.5	277.0	82.3
2(SE)	1.000	+0.0	0.0	0.0	82.3
3(NW)	0.401	+164.0	265.0	300.0	82.3
4(NE)	1.008	+74.1	103.5	10.0	82.3

Input Power (kW)	Loop Loss (ohms)	Theo. RMS (mV/m)	Theo. RSS (mV/m)	Q Factor (mV/m)	Modified RMS (mV/m)
7.0	1.0	805.4	789.5	26.5	848.7

Augmentations

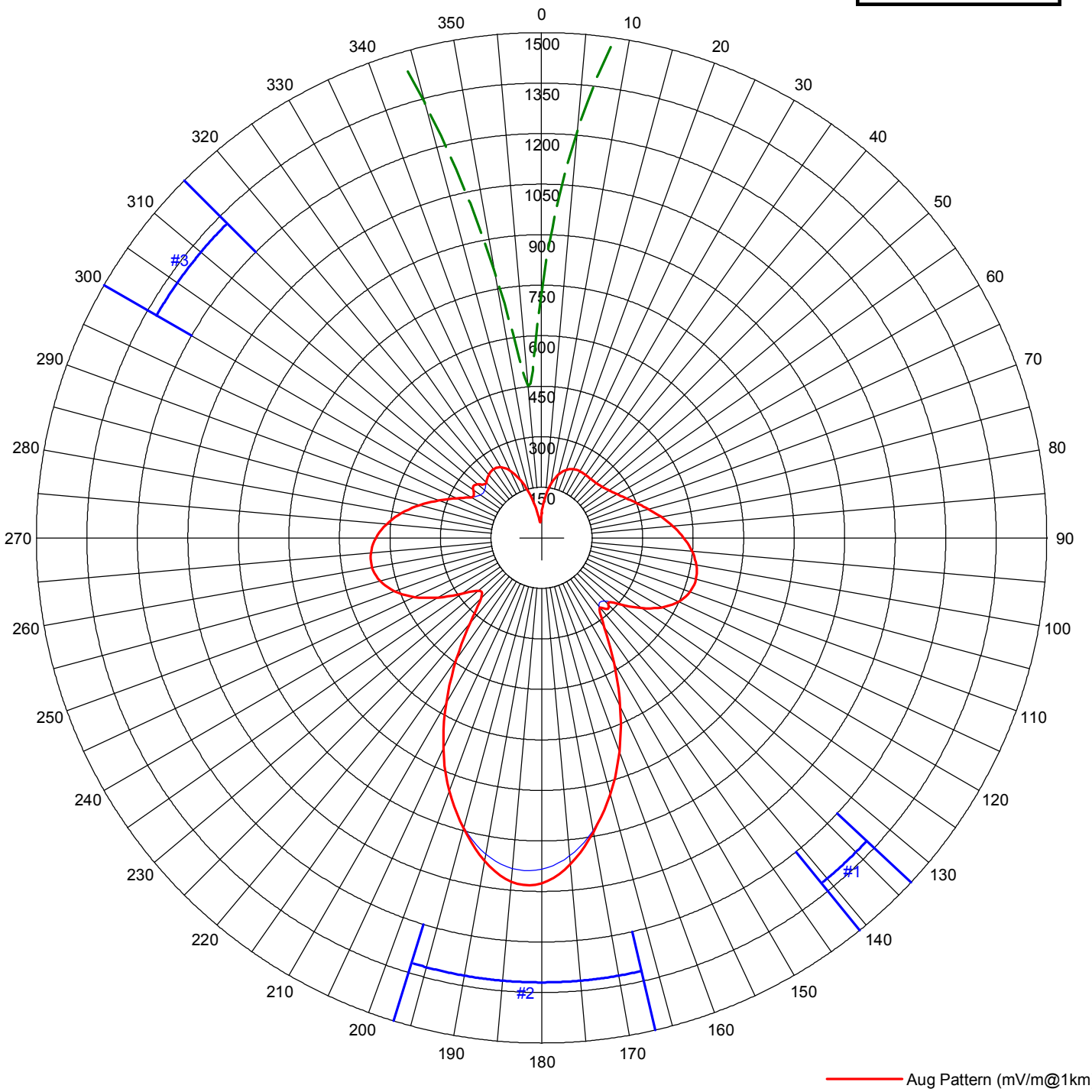
No.	Bear (deg.)	Span (deg.)	Field (mV/m)
1	209	25	639

Azimuth (mV/m)	Field (mV/m)	Azimuth (mV/m)	Field (mV/m)	Azimuth (mV/m)	Field (mV/m)	Azimuth (mV/m)	Field (mV/m)
0	124	90	411	180	1362	270	1312
5	113	95	440	185	1221	275	1253
10	106	100	469	190	1052	280	1180
15	103	105	500	195	869	285	1095
20	101	110	537	200	710	290	999
25	099	115	586	205	645	295	893
30	102	120	651	210	640	300	779
35	112	125	738	215	666	305	658
40	133	130	845	220	755	310	536
45	161	135	968	225	905	315	415
50	191	140	1099	230	1048	320	302
55	220	145	1229	235	1170	325	205
60	248	150	1348	240	1266	330	136
65	274	155	1445	245	1334	335	110
70	299	160	1511	250	1375	340	119
75	325	165	1539	255	1390	345	133
80	353	170	1524	260	1383	350	138
85	382	175	1464	265	1356	355	134


WNPL
Freq: 1460 kHz
Class: B
Latitude: 26-15-26 N
Longitude: 081-40-33 W
Power: 7 kW
RMS: 805.431 mV/m @1km
Towers: 4
EXHIBIT 3
WNPL
5 mV/m
5 mV/m
5
SPAN OF AUGMENTATION
WVOI
DAYTIME ALLOCATION STUDY
Scale 1:248,187
km
0
3
6
9

AM Directional Pattern

EXHIBIT 4



Modified Standard Horizontal Plane Pattern

Aug Pattern (mV/m@1km)
Std Pattern (mV/m@1km)
Aug Pattern X10
Std Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch
1	0.638	277.6	275.0	254.9	82.3	0
2	0.707	-79.8	103.5	190.0	82.3	0
3	0.461	37.4	249.5	277.0	82.3	0
4	1.000	0.0	0.0	0.0	82.3	0

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	137.00	289.00	8.0
2	182.00	1032.00	30.0
3	307.50	254.00	15.0

Call: WNPL
Freq: 1460 kHz
GOLDEN GATE, FL, US
Hours: N
Lat: 26-15-26 N
Lng: 081-40-33 W
Power: 2.0 kW
Theo RMS: 428.45 mV/m@1km
@ 2.0 kW
# of Augmentations: 3

EXHIBIT 5

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION WNPL, GOLDEN GATE, FLORIDA

1460 Khz. 7.0 KW/2.0 KW DA-2

NIGHTTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

Tower Number	Field Ratio	Phase (deg.)	Spacing (deg.)	Bearing (deg.)	Height (deg.)
1(SW)	0.638	277.6	275.0	254.9	82.3
2(SE)	0.707	-79.8	103.5	190.0	82.3
3(NW)	0.461	+37.4	249.5	277.0	82.3
4(NE)	1.000	0.0	0.0	0.0	82.3

Input Power (kW)	Loop Loss (ohms)	Theo. RMS (mV/m)	Theo. RSS (mV/m)	Q Factor (mV/m)	Modified RMS (mV/m)
2.0	1.0	428.5	496.7	14.1	454.7

Augmentations

No.	Bear (deg.)	Span (deg.)	Field (mV/m)
1	137	8	289
2	182	30	1032
3	307.5	15	254

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	73.0	69.9	60.9	46.9	30.1	19.9	33.1
5	121	117	106	87.8	64.5	37.6	14.5
10	163	159	146	127	101	72.0	42.7
15	194	190	178	158	131	101	70.7
20	215	210	198	179	154	124	94.2
25	225	221	210	192	169	142	113
30	228	225	215	200	179	155	129
35	228	225	217	204	187	165	142
40	228	226	219	208	193	175	154
45	230	228	223	214	201	184	165
50	236	234	229	221	210	194	176
55	245	244	239	232	220	206	188
60	259	258	253	245	233	218	199
65	278	276	271	262	249	232	212
70	301	299	293	282	267	248	225
75	329	326	319	306	288	265	239
80	360	357	347	332	310	284	253
85	392	388	377	358	333	302	266
90	422	418	405	383	353	318	278
95	448	443	428	403	370	330	286
100	467	461	444	416	380	336	289
105	474	468	450	420	381	335	286
110	469	462	443	412	372	325	276
115	449	442	422	391	351	306	260
120	413	406	388	358	321	280	242
125	364	358	341	316	285	253	227
130	308	304	291	273	253	235	226
135	281	278	272	265	258	256	260
140	270	270	271	275	280	290	301
145	326	328	332	339	348	358	367
150	430	431	434	438	443	447	448
155	552	552	552	551	548	542	532
160	676	674	670	663	651	635	614
165	789	786	778	764	745	719	687
170	887	883	871	853	826	792	751
175	974	969	955	932	900	859	811

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	56.3	80.3	102	120	133	139	137
5	30.2	58.6	85.2	107	124	133	133
10	28.0	45.9	72.8	97.2	116	127	130
15	47.4	47.0	67.0	90.4	110	123	127
20	68.7	58.2	68.0	87.4	106	119	124
25	87.9	72.9	74.4	88.0	104	117	122
30	105	87.9	83.6	91.4	104	116	121
35	120	102	93.9	96.7	106	116	121
40	133	115	104	103	109	117	121
45	145	127	114	109	112	118	121
50	157	138	123	116	116	120	122
55	168	148	132	122	120	122	124
60	178	157	139	128	124	125	126
65	189	166	146	133	127	128	128
70	199	174	152	137	131	131	131
75	210	181	157	141	135	134	134
80	220	188	162	145	139	138	138
85	229	194	166	149	143	143	142
90	237	199	169	152	147	148	147
95	241	201	171	156	152	154	153
100	242	201	173	160	159	162	159
105	238	199	175	166	168	170	167
110	231	196	178	174	178	181	175
115	221	194	184	186	192	193	185
120	212	197	196	203	209	208	196
125	211	209	216	224	229	224	208
130	226	233	244	251	251	241	220
135	268	278	286	288	281	263	235
140	312	321	324	320	305	281	247
145	374	375	370	356	333	300	260
150	445	436	419	394	361	320	272
155	517	496	468	432	389	339	284
160	587	553	513	466	414	356	295
165	649	604	553	497	436	371	305
170	703	649	589	524	456	385	314
175	755	693	625	553	479	403	327

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	1026	1020	1005	979	944	900	847
185	1025	1020	1004	979	944	900	847
190	974	970	956	933	901	860	812
195	893	889	878	859	833	799	758
200	800	798	790	776	757	731	699
205	690	688	684	677	665	650	628
210	566	566	566	565	563	557	548
215	441	442	446	451	456	461	463
220	329	331	336	345	356	369	380
225	254	255	259	265	276	290	306
230	244	243	238	234	233	238	250
235	290	286	273	256	237	223	220
240	355	349	331	304	272	240	217
245	416	409	388	356	315	272	232
250	464	456	434	399	354	303	254
255	496	488	465	429	381	327	273
260	510	503	480	444	396	342	285
265	509	501	479	444	398	345	289
270	492	485	464	431	388	338	285
275	462	456	437	407	368	322	274
280	422	416	400	374	339	299	258
285	375	370	356	334	306	273	239
290	325	321	310	293	271	246	222
295	278	275	267	256	241	224	208
300	241	239	235	228	220	211	202
305	248	247	245	241	235	229	223
310	247	247	245	242	239	234	229
315	232	231	230	228	226	223	219
320	244	243	242	239	235	230	225
325	249	248	246	242	238	232	226
330	242	241	238	235	230	224	218
335	219	218	217	214	211	207	203
340	182	182	181	181	180	179	178
345	134	134	135	137	140	143	147
350	80.4	81.2	83.4	87.3	93.2	101	111
355	45.3	44.5	42.9	42.8	47.0	56.9	71.4

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	787	721	649	573	495	416	337
185	787	721	649	573	495	416	337
190	756	694	627	555	480	404	328
195	710	655	595	530	461	390	318
200	661	615	564	507	445	379	311
205	601	567	526	479	425	366	303
210	533	512	483	446	402	351	294
215	461	452	436	411	377	334	284
220	389	392	387	373	350	316	273
225	322	334	340	337	323	297	261
230	266	283	296	302	296	279	249
235	227	243	259	270	272	261	238
240	208	214	229	243	250	245	227
245	206	199	207	221	231	230	216
250	214	193	193	204	215	218	207
255	225	194	185	192	203	207	199
260	233	196	181	183	193	198	192
265	237	198	179	178	186	191	186
270	236	198	178	175	182	186	182
275	229	195	177	174	179	183	178
280	220	192	177	175	179	181	175
285	210	188	177	176	179	180	173
290	200	186	179	179	181	179	171
295	195	187	183	183	183	180	170
300	195	190	188	187	185	180	169
305	207	203	199	196	191	183	170
310	214	210	205	200	193	183	169
315	214	209	204	198	191	180	166
320	219	213	206	199	190	179	165
325	219	212	205	197	188	177	163
330	212	206	199	192	184	174	160
335	199	194	190	185	179	170	157
340	178	178	177	175	171	165	153
345	152	156	160	163	163	159	150
350	121	132	141	149	153	152	145
355	88.4	106	122	134	143	145	141

Night Allocation Protection Report

EXHIBIT 6-A

Call: WNPL
Freq: 1460 kHz
GOLDEN GATE, FL, US
Hours: N
Lat: 26-15-26 N
Lng: 081-40-33 W
Power: 2.0 kW
Theo RMS: 428.45 mV/m @ 1km @ 2.0 kW
# of Augmentations: 3

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.638	277.6	275.0	254.9	82.3	0	0	0.0	0.0	0.0	0.0
2	0.707	-79.8	103.5	190.0	82.3	0	0	0.0	0.0	0.0	0.0
3	0.461	37.4	249.5	277.0	82.3	0	0	0.0	0.0	0.0	0.0
4	1.000	0.0	0.0	0.0	82.3	0	0	0.0	0.0	0.0	0.0

Augmentations:

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	137.00	289.00	8.0
2	182.00	1032.00	30.0
3	307.50	254.00	15.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WXOK	US	LA	PORT ALLEN	44.92	2.209	245.87	245.85	0.03
50% = 7.015, 25% = 8.606; KBSF=4.71 KCLE=3.77 WZNZ=3.58 WMCJ=2.76 WHAL=2.54 XEUJ/A=2.43 WNPL=2.21								
WXOK	US	LA	BATON ROUGE	45.05	2.215	245.77	245.74	0.03
50% = 6.998, 25% = 8.595; KBSF=4.70 KCLE=3.75 WZNZ=3.58 WMCJ=2.75 WHAL=2.55 XEUJ/A=2.43 WNPL=2.21								
CMHZ-D	CU		SOLA	42.06	2.380	282.87	282.68	0.19
50% = 4.759, 25% = 5.003; UNK-A=4.76 WZNZ=1.54								
YNRV1-B	NU		R VENCEREMOS	8.02	1.269	791.23	791.04	0.19
50% = 2.783, 25% = 3.538; XEUJ/A=2.09 XECPQ/A=1.33 HJJH-A=1.27 HJMN-A=1.09 HJZU-A=0.97 XELX/A=0.96 HJAL-A=0.94 HJTF-A=0.90								
WHAL	US	AL	PHENIX CITY/COL	70.66	2.993	211.80	211.23	0.57
50% = 9.41, 25% = 12.128; WXEM=5.88 WZNZ=5.24 WBNS=5.15 WRGA=4.65 WMCJ=4.29 WBCU=3.09 WRAD=2.99								
HRQX-B	HO		COMAYAGUA	11.39	1.585	696.20	672.30	23.91
50% = 3.171, 25% = 3.486; XEUJ/A=2.68 XECPQ/A=1.70 XELX/A=1.16 HJJH-A=0.87								
XECPQ/A	MX	QR	FELIPE CARRILLO	64.85	4.229	326.08	290.76	35.32
50% = 9.209, 25% = 9.529; XEUJ/A=8.18 WXOK=4.23 XEGRA/A=2.45								
WZNZ	US	FL	JACKSONVILLE	138.51	2.199	79.37	36.91	42.46
50% = 7.684, 25% = 8.795; WBNS=4.67 WHAL=3.55 WXEM=3.51 UNK-A=3.51 WRGA=2.59 WBCU=2.48 WMCJ=2.33								
HRIC-B	HO		PTO CORTES	14.60	1.808	619.32	554.15	65.17
50% = 3.617, 25% = 3.941; XEUJ/A=3.02 XECPQ/A=1.99 XELX/A=1.22 XEGRA/A=0.99								

```
WMCJ            US AL CULLMAN              45.89    3.120    339.96    234.39    105.58
   50% = 9.537, 25% = 12.783; WXEM=5.48 WRAD=4.68 WBCU=4.53 WBNS=4.31 WKAM=4.03
   WVOL=3.71 WEWO=3.43 WXOK=3.28 KHOJ=3.20 WHAL=3.12

KBSF            US LA SPRINGHILL           28.79    2.451    425.56    251.91    173.65
   50% = 8.69, 25% = 9.803; WXOK=5.49 WMCJ=5.01 KCLE=4.49 KXNO=3.64 KHOJ=2.70

KXNO            US IA DES MOINES           13.06    1.152    441.34    239.70    201.63
   50% = 3.533, 25% = 4.695; KAIR=2.70 WBNS=2.28 KMRY=1.37 WMBD=1.35 KBSF=1.29
   KDMA=1.22 XEYC/A=1.17 KCLE=1.15

KHOJ            US MO ST. CHARLES          20.42    1.966    481.43    235.27    246.16
   50% = 6.647, 25% = 8.074; WKAM=4.12 WBNS=3.71 KXNO=3.66 WRAD=2.66 WMCJ=2.37
   KBSF=2.11 WEWO=1.97

WXEM            US GA BUFORD               54.57    4.216    386.29    122.39    263.89
   50% = 14.131, 25% = 16.864; WMCJ=9.22 WBNS=7.86 WZNZ=7.28 WBCU=5.79 WRAD=5.37
   WEWO=4.72

WBCU            US SC UNION                51.08    4.057    397.18     68.31    328.87
   50% = 14.155, 25% = 16.229; WBNS=10.43 WMCJ=6.87 WRAD=6.66 WXEM=5.83
   WEWO=5.39

XEUJ/A          MX CM CD.DEL CARMEN        35.35    4.223    597.26    263.88    333.38
   50% = 8.445, 25% = 9.941; XECPQ/A=4.98 XELX/A=4.90 XEGRA/A=4.75 WXOK=3.56
   XEHE/A=2.98 XEJH/A=2.45

WWNN            US FL POMPANO BEACH       357.68    3.766    526.45    173.56    352.89
   50% = 13.988, 25% = 15.064; WRGA=11.56 WMGG=7.88 WWBG=5.59

WBNS            US OH COLUMBUS             22.32    1.833    410.59     45.81    364.77
   50% = 4.892, 25% = 7.528; WHIC=3.01 WABQ=2.88 WMBA=2.56 WXEM=2.25 WBCU=2.23
   KXNO=2.08 WKAM=1.98 WZNZ=1.96 WKDV=1.91 KHOJ=1.90 WMCJ=1.83

KCWM            US TX HONDO                20.04    2.995    747.40    370.65    376.75
   50% = 9.502, 25% = 12.21; XEPD/A=6.21 KCLE=5.40 KXNO=4.74 XEYC/A=4.24
   XE/A=3.37 KBZO=3.36 XE0023/A=3.03 XEHE/A=3.00

TGRN-B          GT    RADIOPETEN           14.20    2.070    728.82    313.56    415.25
   50% = 4.139, 25% = 4.711; XEUJ/A=3.56 XECPQ/A=2.11 XELX/A=1.74 XEGRA/A=1.43

WEWO            US NC LAURINBURG           48.71    6.058    621.80    169.05    452.76
   50% = 21.358, 25% = 24.232; WBCU=19.05 WZNZ=9.65 WBNS=8.36 WRAD=7.81

KCLE            US TX BURLESON             20.71    2.956    713.62    249.21    464.40
   50% = 8.635, 25% = 11.824; KXNO=7.27 KBSF=4.66 KCWM=4.26 KBZO=4.15
   XEYC/A=3.42 WXOK=3.04 KZNT=3.00

WRAD            US VA RADFORD              33.73    4.003    593.41    114.80    478.61
   50% = 13.078, 25% = 16.012; WBNS=13.08 WMBA=4.96 WEWO=4.78 WABQ=4.62
   WKDV=4.07

WTKT            US PA HARRISBURG           19.88    2.815    707.99    191.34    516.65
   50% = 9.258, 25% = 11.58; WIFI=4.85 WEMR=4.71 WBNS=4.55 WHIC=4.39 WEMD=3.99
   WKDV=3.75 WMBA=3.24 WZNZ=2.81

TILX-B          CS    ALAJUELA  1           5.84    1.790   1531.26    976.26    555.00
   50% = 3.579, 25% = 4.653; HJJH-A=2.40 HJZU-A=1.91 HJMN-A=1.85 HJTF-A=1.61
   HJAL-A=1.56 HCIC6-A=1.53 XEUJ/A=1.21
```

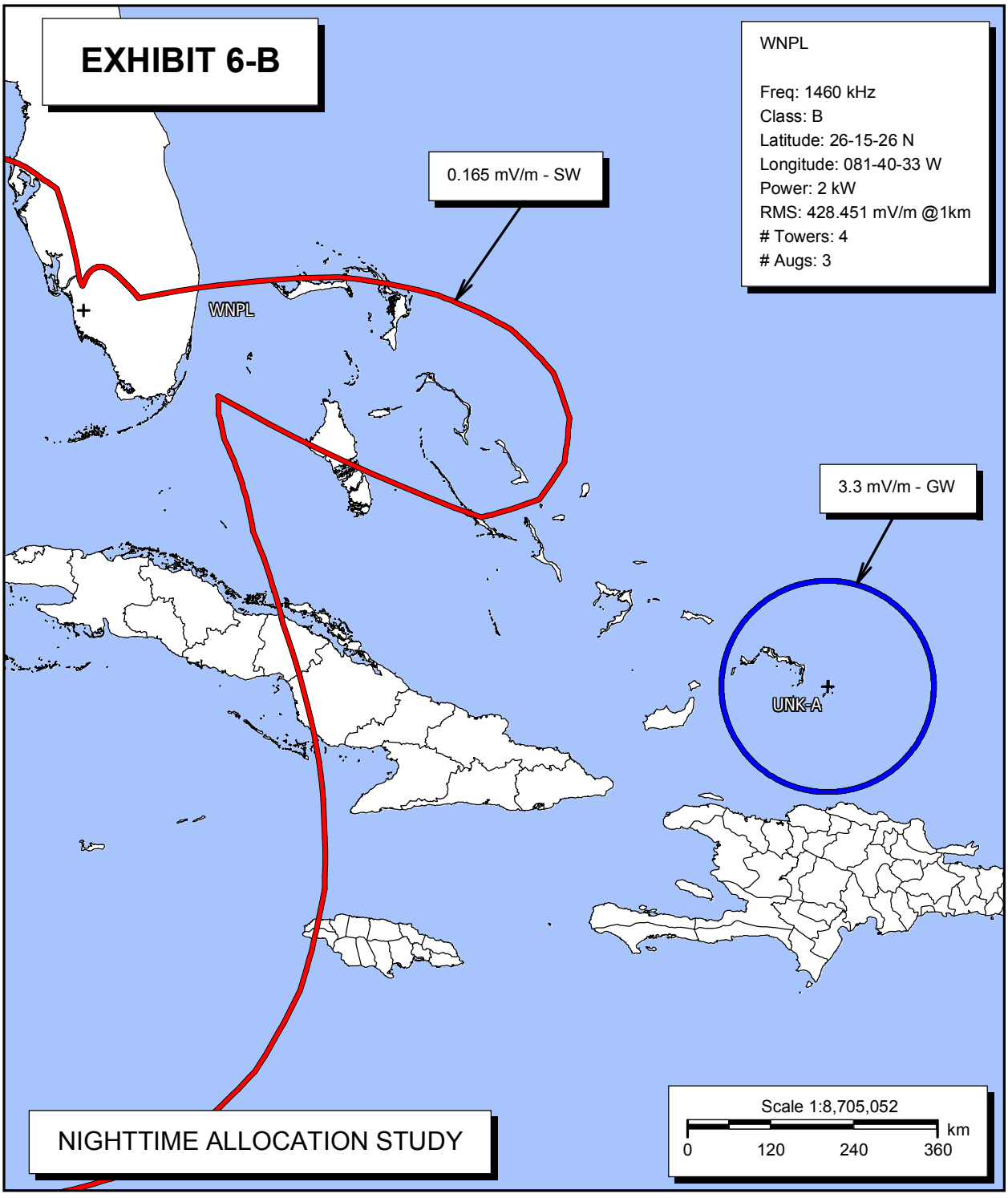


EXHIBIT 6-B
WNPL
Freq: 1460 kHz
Class: B
Latitude: 26-15-26 N
Longitude: 081-40-33 W
Power: 2 kW
RMS: 428.451 mV/m @1km
Towers: 4
Augs: 3
0.165 mV/m - SW
WNPL
3.3 mV/m - GW
UNK-A
NIGHTTIME ALLOCATION STUDY
Scale 1:8,705,052
0
120
240
360
km

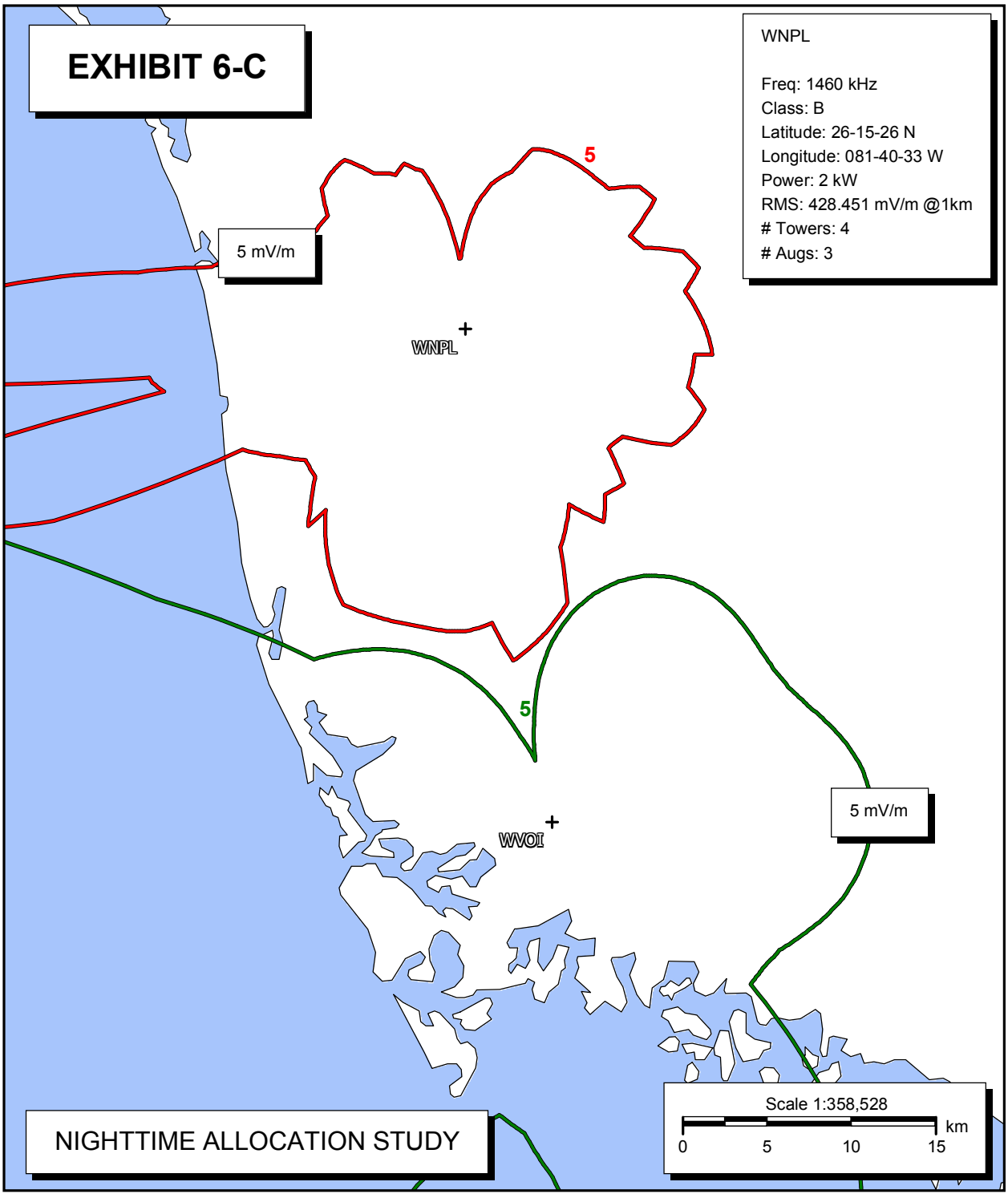


EXHIBIT 6-C
WNPL
Freq: 1460 kHz
Class: B
Latitude: 26-15-26 N
Longitude: 081-40-33 W
Power: 2 kW
RMS: 428.451 mV/m @1km
Towers: 4
Augs: 3
5
5 mV/m
WNPL
5
WVOI
5 mV/m
NIGHTTIME ALLOCATION STUDY
Scale 1:358,528
km
0
5
10
15