

ENGINEERING EXHIBIT
AMENDMENT TO
APPLICATION FOR CONSTRUCTION PERMIT
WIFREDO G. BLANCO PI
AM STATION WI2XSO
MAYAGUEZ, PUERTO RICO

February 27, 2006

1260 KHZ 5 KW-D 1.8 KW-N DA-2 U

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ENGINEERING EXHIBIT
AMENDMENT TO
APPLICATION FOR CONSTRUCTION PERMIT
AM STATION WI2XSO
MAYAGUEZ, PUERTO RICO
FACILITY ID 89243
1260 KHZ 5 KW-D 1.8 KW-N DA-2 U

Engineering Statement

This Engineering Exhibit has been prepared on behalf of Wifredo G. Blanco Pi, dba Morovis Radio Associates, licensee of experimental AM broadcast station WI2XSO Mayaguez, Puerto Rico. Station WI2XSO operates on 1260 kHz with power of 1,000 watts, unlimited time, employing a directional antenna pattern during daytime hours. The applicant proposed to change transmitter location, increase daytime power to 5 kilowatts, and increase nighttime power to 1.7 kilowatts (File No. BPEX-20050429AAB). The FCC, by letter of February 1, 2006 requested information regarding potential interference to HIT and WSUA. In addition, site photographs and the clearance letter from the Arecibo Radio Astronomy were requested.

In order to resolve potential interference, the directional antenna pattern proposed for use has been slightly modified, with the nighttime power increased to 1.8 kilowatts. For convenience, the entire engineering exhibit is to be replaced by the current engineering exhibit.

The application complies with the rules of the Federal Communications Commission, except for 47 CFR 73.24(g), for which a waiver is requested.

Proposed Transmitter Location

The proposed transmitter site is located near the intersection of Puerto Rico highways 343 and 114. The geographic coordinates for the site as scaled from a Mayaguez 7-1/2 minute quadrangle map are (NAD 27):

18° 09' 17" North Latitude

67° 09' 08" West Longitude.

Photographs of the proposed transmitter site are shown in Figure 11A.

Daytime Directional Antenna System

Two base insulated, guyed towers will be employed to produce the directional antenna pattern. As indicated on Figure 1A, the radiating elements for the towers are 51.8 meters in height and the towers have an overall height of 52.8 meters above ground level. The towers have been registered with the Commission, with registration number provide on the engineering form. Figure 2A is a sketch of the transmitter site property showing the layout of the towers and the proposed ground system.

The directional antenna pattern was calculated in accordance with the provisions of 47 CFR 73.150 assuming a one-ohm lumped loss resistance at the current loop of each tower in the array. The standard radiation pattern is shown as Figure 3A and is tabulated in Figure 4A.

Daytime Coverage Contours

The proposed 1,000 mV/m contour is shown on Sheet 1 of Figure 5A. The population within the proposed contour, according to the 2000 Census is 2,060

persons; therefore, waiver of the provisions of 47 CFR 73.24(g) are requested. Numerous previous cases before the FCC have received a waiver of this rule, due to the fact that most receivers are immune to blanketing interference in a field of 1 V/m. Radiated fields of approximately 5 V/m or greater may cause receiving difficulties. The applicant acknowledges responsibility to resolve any complaint of blanketing interference occurring within the proposed 1,000 mV/m contour.

The proposed 5, 2 and 0.5 mV/m contours are shown on Sheet 2 of Figure 5A. All of Mayaguez is included within the proposed 5 mV/m contour.

Daytime Allocation Study

The daytime allocation study is shown on the three sheets of Figure 6A. Sheet 1 shows the proposed 0.5 mV/m and 0.0625 mV/m contours of the proposed WI2XSO operation and the 1.25 mV/m contour for pertinent ITU Region 2 co-channel stations HIT and YVRM. No contour overlap on land area occurs with these two stations located in noise zone 2.

Sheet 2 shows the allocation picture with a St. Kitts station at Conaree, which is notified as operating on 1260 kHz with power of 100 KW daytime and 50 KW nighttime. The applicant advises that this station cannot be heard either daytime or nighttime so there is serious doubt that the station is operational. In any event, the proposed 0.025 mV/m interfering contour of the proposed WI2XSO operation does not reach the island of St. Kitts, therefore no possibility of interference on the island exists.

Sheet 3 of Figure 6A shows the contours pertinent to stations operating on first or second adjacent channels to WI2XSO in Puerto Rico. There is no overlap of contours prohibited by 47 CFR 73.37.

Figure 12A is a letter from the Arecibo Observatory dated May 3, 2005, which indicates no objection to the proposed installation.

Nighttime Directional Antenna System

Figure 7A provides information regarding the nighttime standard radiation pattern. As will be noted, the daytime and nighttime patterns are identical except that the daytime power of 5 kilowatts is reduced to 1.8 kilowatts for nighttime operation. Figure 8A lists the nighttime directional antenna pattern in tabular form.

Nighttime Coverage Contour

The proposed WI2XSO nighttime interference-free (NIF) 20.6 mV/m contour is shown on Figure 9A. The NIF results from the signal contributions of YVRM (14.85 mV/m) and WSUA (14.3 mV/m). Interference from the 1260 kHz station at Conaree was not considered.

Sixty nine percent of Mayaguez is included within the proposed 20.6 mV/m contour.

Nighttime Allocation Study

Figure 10A provides information regarding the nighttime protection to pertinent stations. Assuming the 1260 kHz at Conaree is in operation, the potential interference from WI2XSO along with the signals of WI3XSO and WISO would not cause any interference to that station on the island of St. Kitts. In addition, the signal level in the direction of HIT is being substantially reduced from the existing 1 kilowatt non-directional operation, thereby providing additional protection. The RSS computation of the signals of WISO, proposed WI2XSO and WI3XSO does not enter the 25 percent limit of station WSUA, as shown in Figure 10A.

Environmental Considerations²

The proposed WI2XSO daytime operation was evaluated in terms of both the electric and magnetic field components, which will be present at the base of each tower. Using Table 2 of Supplement A to OET Bulletin 65, *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, the worst-case distance at which the electric and magnetic fields would fall below ANSI guidelines is two meters. Accordingly, the areas surrounding the base of each tower will be appropriately restricted with a fence having a minimum tower clearance of two meters, unless data obtained after construction has been completed indicates otherwise. The fence will assure that persons on the property outside of the fenced area will not be exposed to radiofrequency field levels in excess of the guideline. In addition, warning signs will be posted.

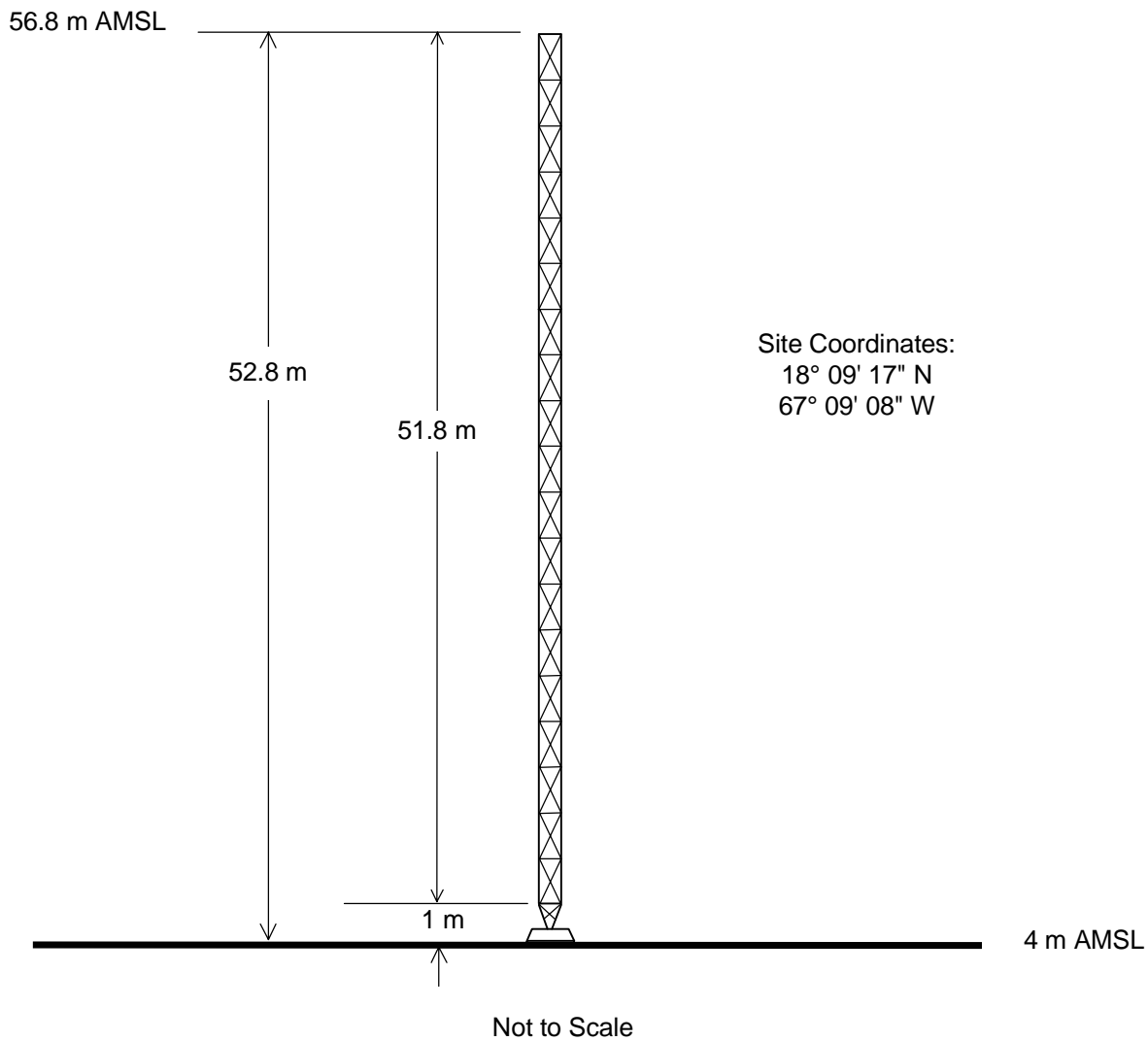
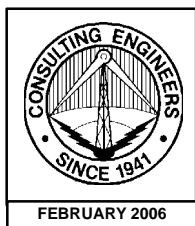


Louis R. du Treil, Sr.
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237-6019
941 329 6000

February 27, 2006

² This statement addresses only human exposure to radiofrequency radiation and not to other non-radiofrequency radiation matters listed in the National Environmental Policy Act of 1969.

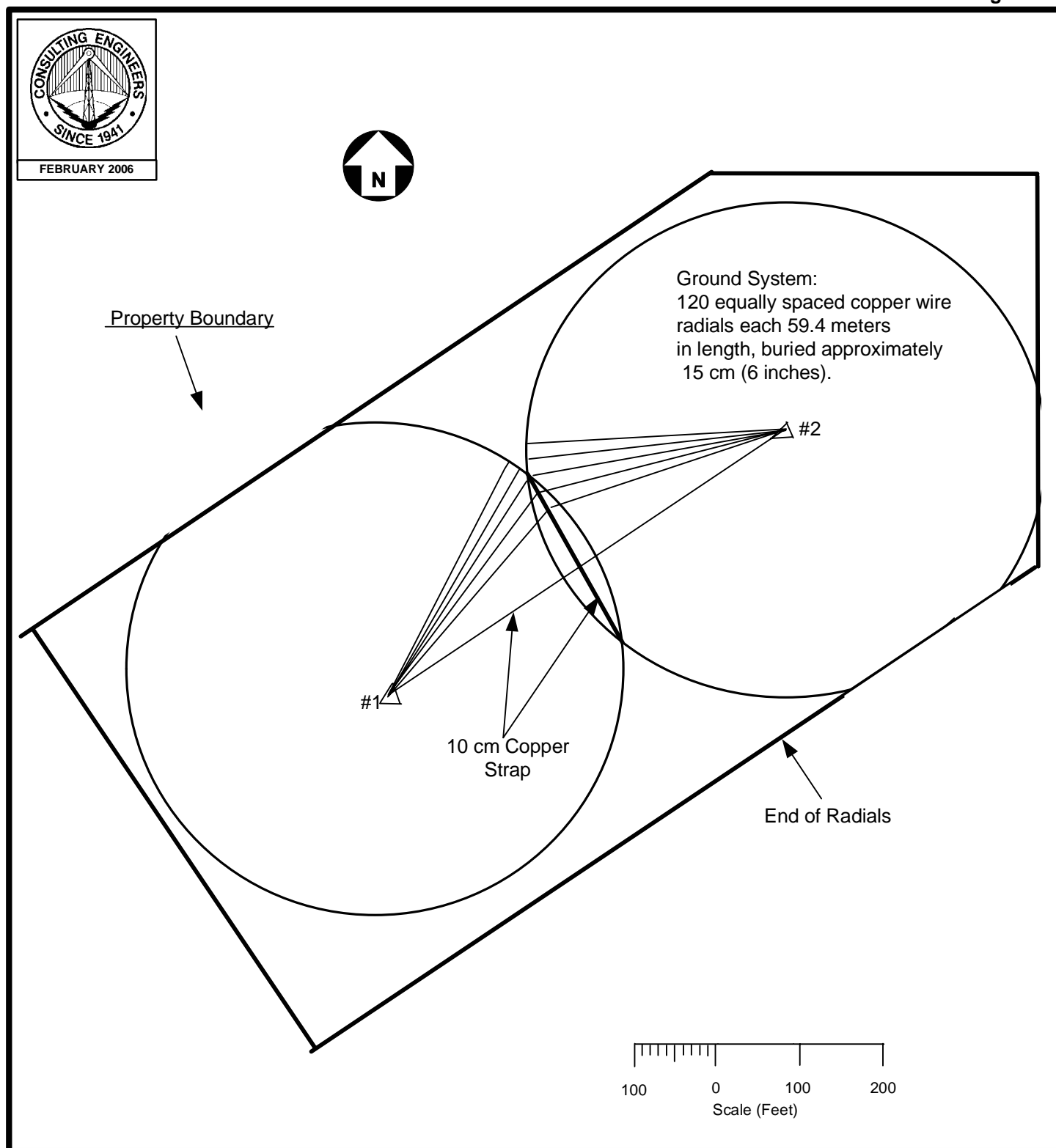
Figure 1A



TOWER SKETCH

WIFREDO G. BLANCO-PI
AM STATION WI2XSO
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U

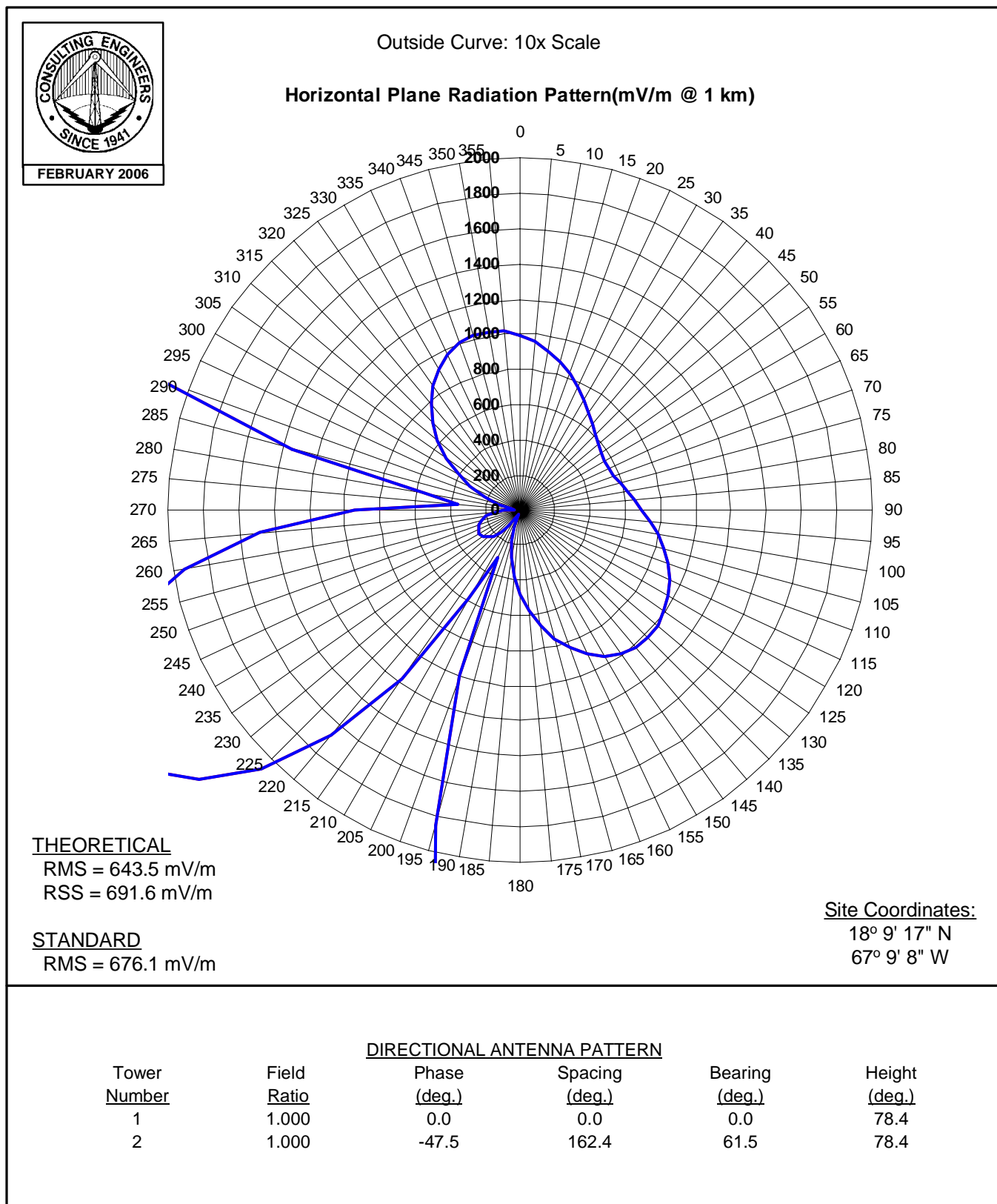
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PROPOSED PROPERTY BOUNDARY AND ANTENNA GROUND SYSTEM

AM STATION WI2XSO
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U
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Figure 3A



PROPOSED DAYTIME STANDARD RADIATION PATTERN

AM STATION W12XSO
MAYAGUEZ, PUERTO RICO
1260 KHZ 5 KW-D 1.8 KW-N DA-2 U

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Figure 4A

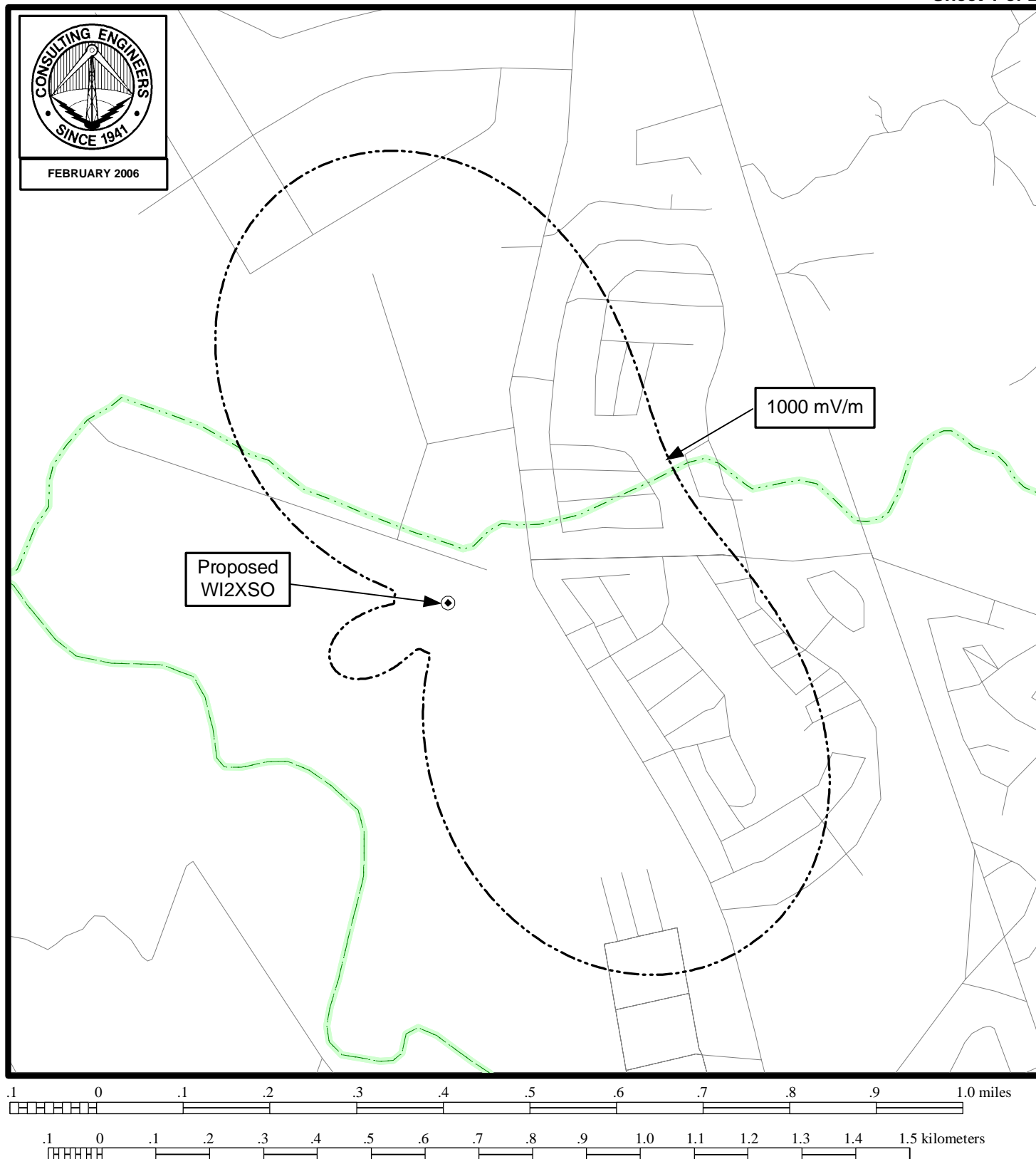
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DAYTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

<u>Tower Number</u>	<u>Field Ratio</u>	<u>Phase (deg.)</u>	<u>Spacing (deg.)</u>	<u>Bearing (deg.)</u>	<u>Height (deg.)</u>
1	1.000	0.0	0.0	0.0	78.4
2	1.000	-47.5	162.4	61.5	78.4

<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>Standard RMS (mV/m)</u>
5	1.0	643.5	691.6	22.4	676.1

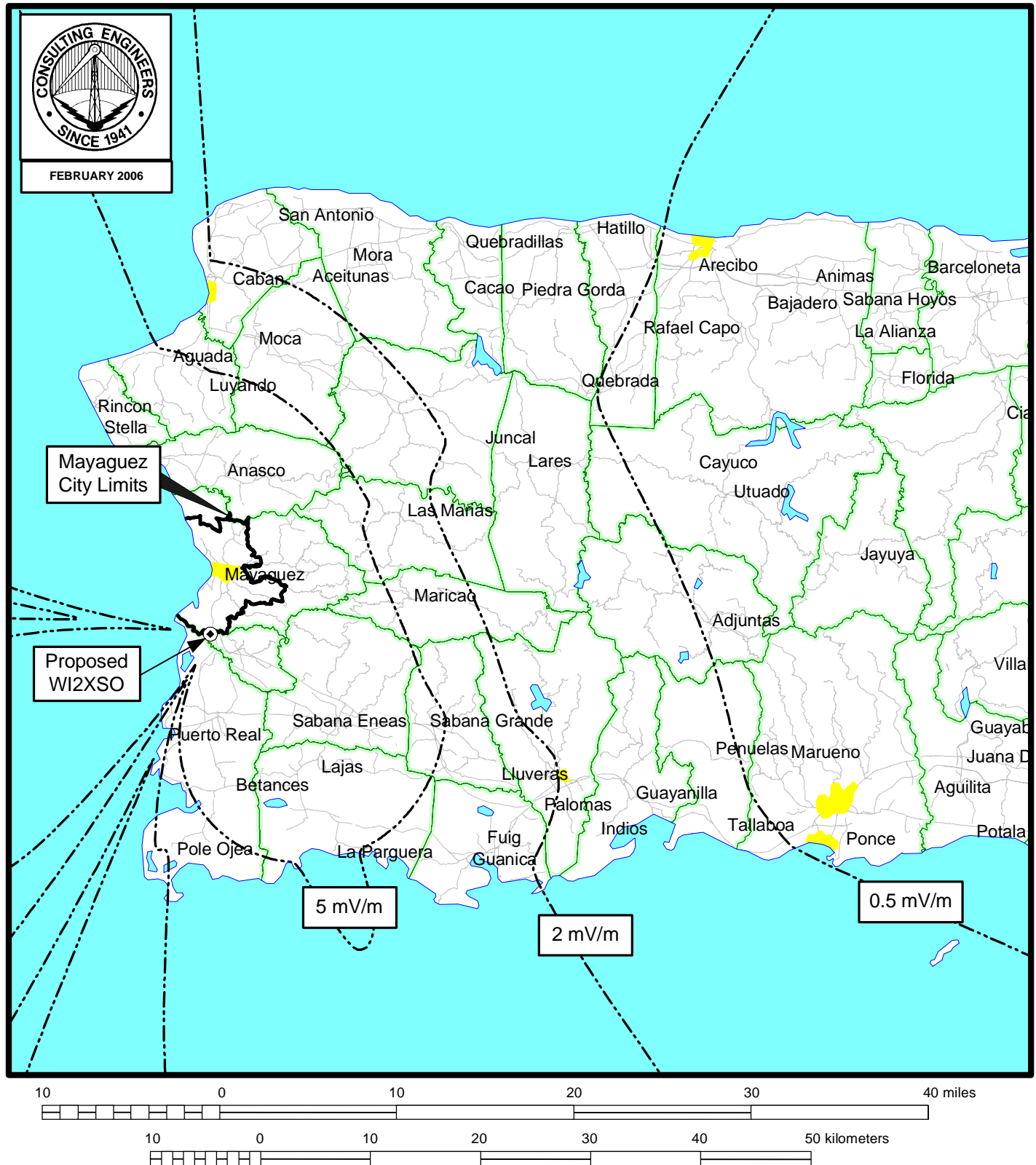
<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>	<u>Azimuth (mV/m)</u>	<u>Field (mV/m)</u>
0	992	90	693	180	475	270	94.4
5	959	95	740	185	376	275	35.2
10	917	100	789	190	279	280	53.8
15	870	105	840	195	186	285	133
20	820	110	889	200	100	290	223
25	769	115	934	205	29.3	295	317
30	720	120	973	210	58.4	300	415
35	675	125	1003	215	117	305	514
40	636	130	1022	220	168	310	611
45	603	135	1027	225	208	315	703
50	577	140	1018	230	238	320	788
55	561	145	994	235	257	325	862
60	553	150	955	240	266	330	924
65	555	155	901	245	263	335	973
70	566	160	834	250	251	340	1006
75	587	165	755	255	227	345	1024
80	615	170	667	260	193	350	1027
85	651	175	573	265	149	355	1016



PREDICTED DAYTIME 1000 mV/m CONTOUR

AM STATION W12XSO
MAYAGUEZ, PUERTO RICO
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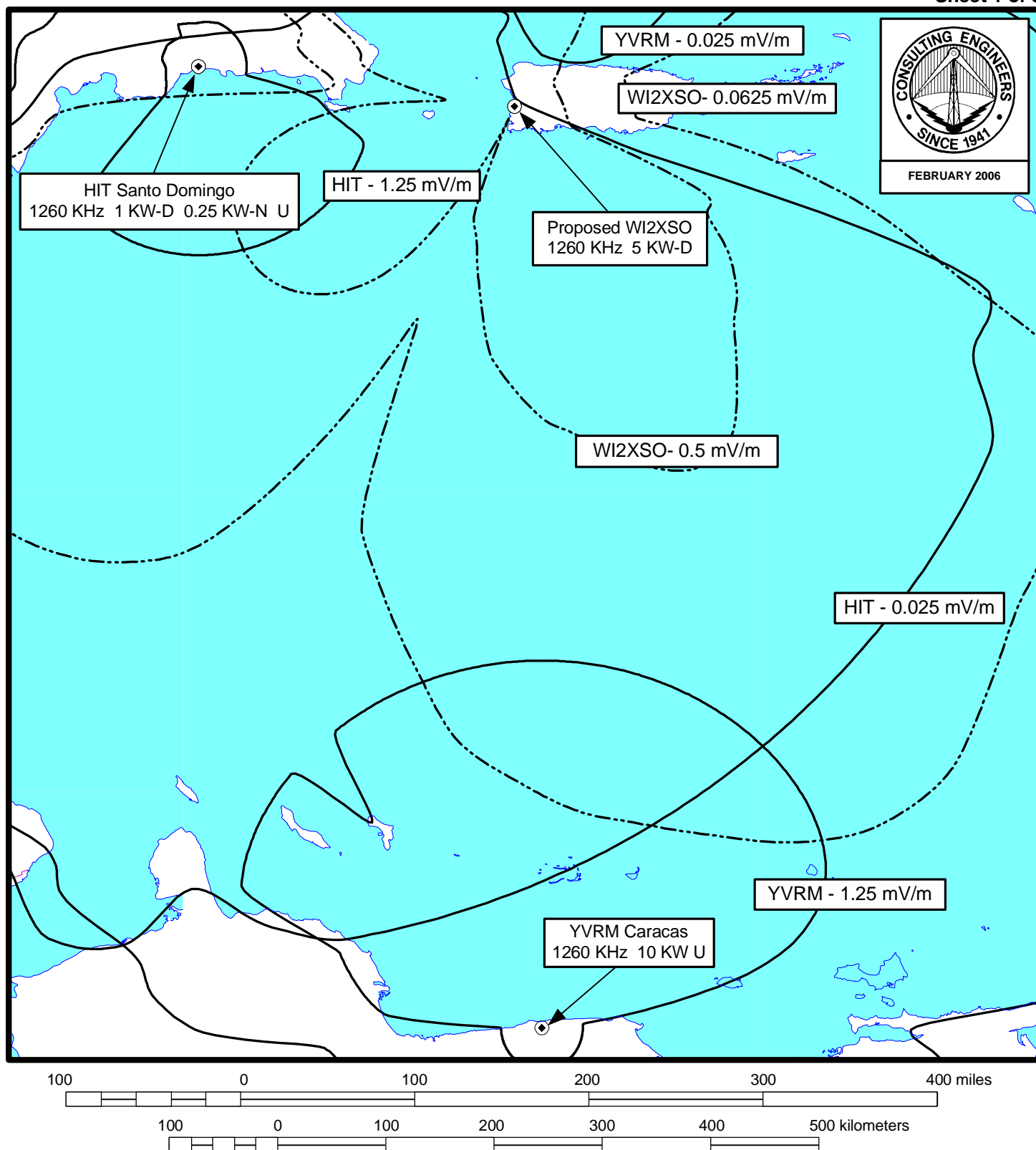
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PREDICTED DAYTIME COVERAGE CONTOURS

AM STATION W12XSO
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U

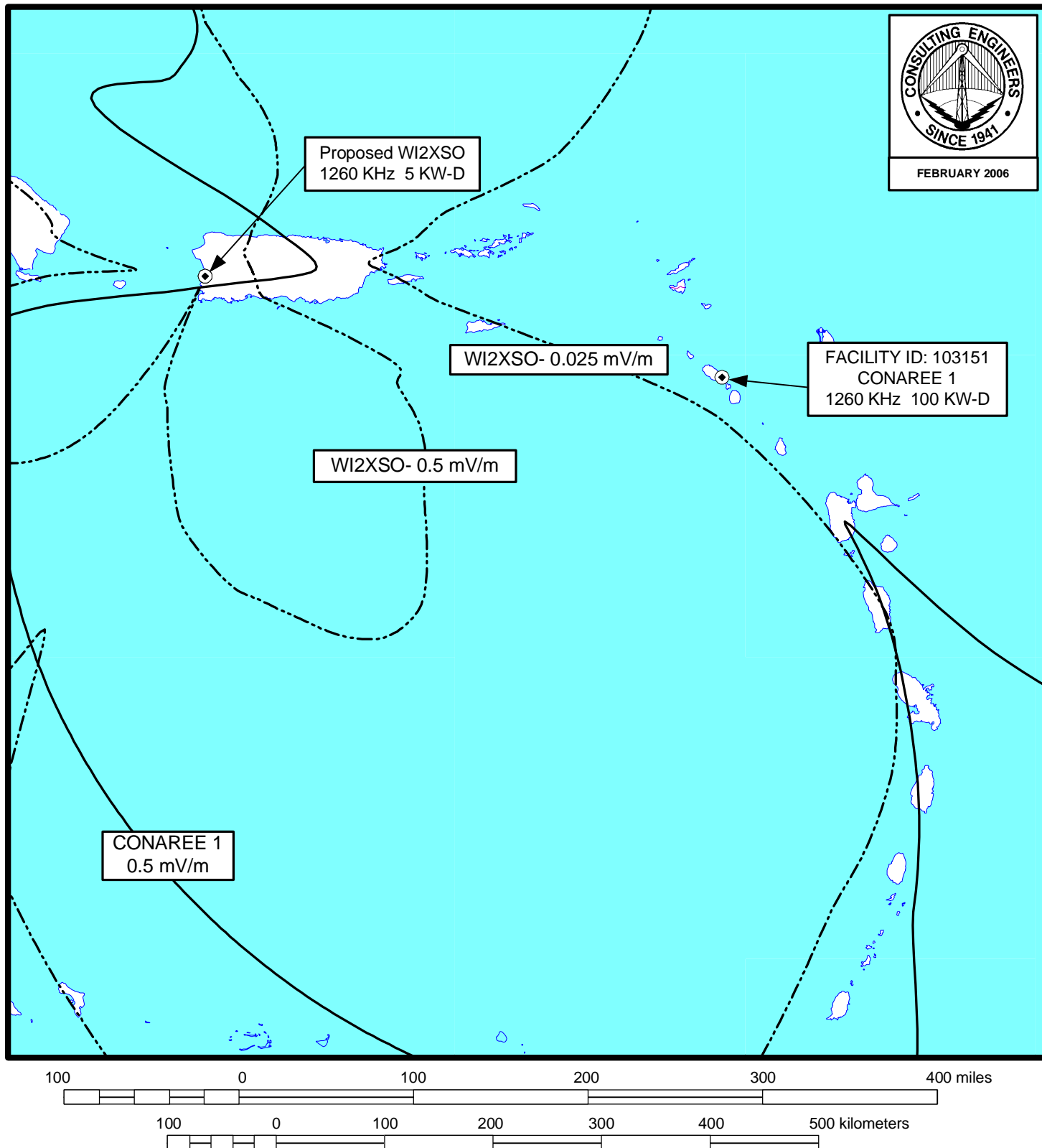
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DAYTIME ALLOCATION STUDY REGION 2 STATIONS - NOISE ZONE 2

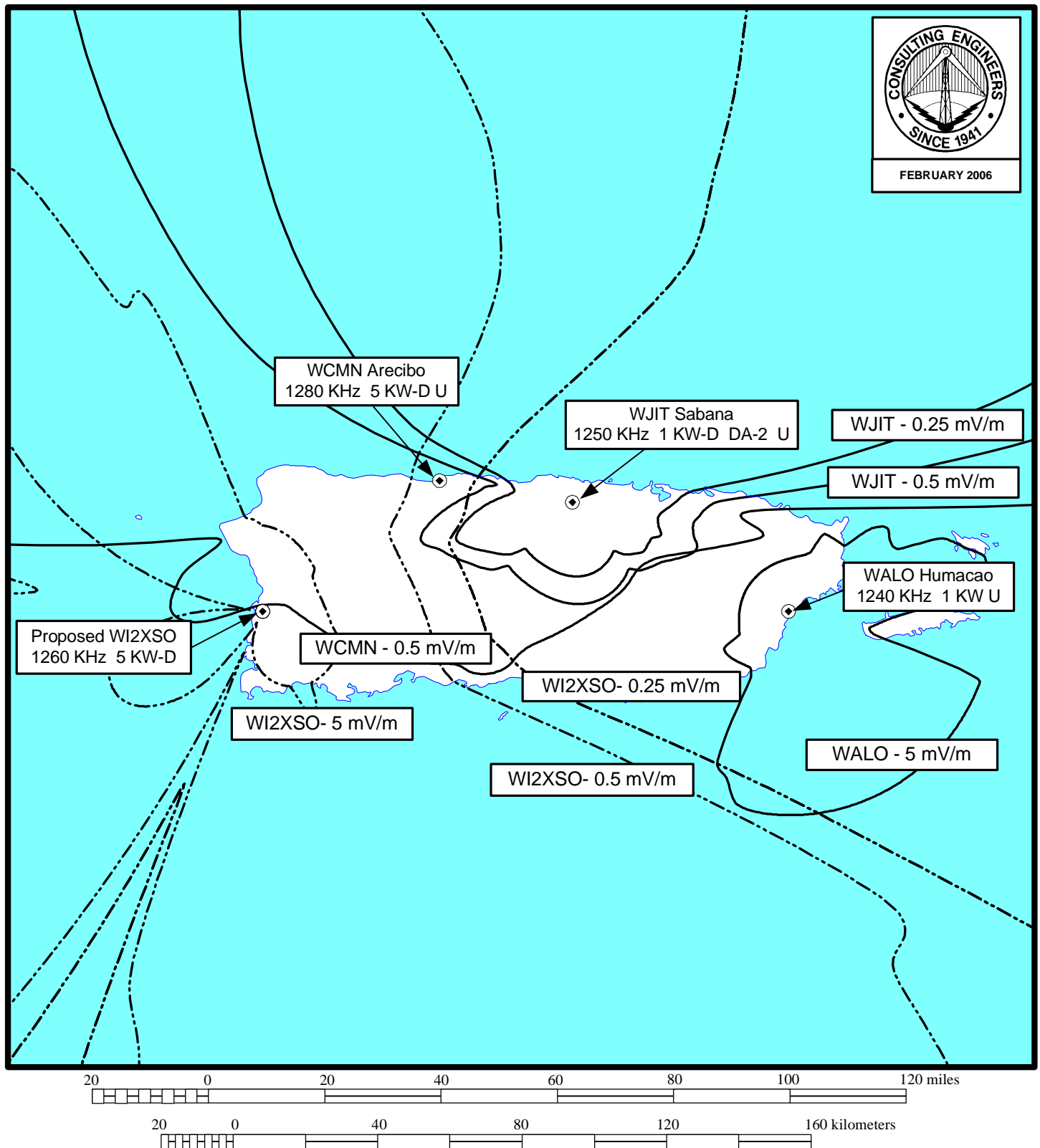
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DAYTIME ALLOCATION STUDY CONAREE, ST. KITTS

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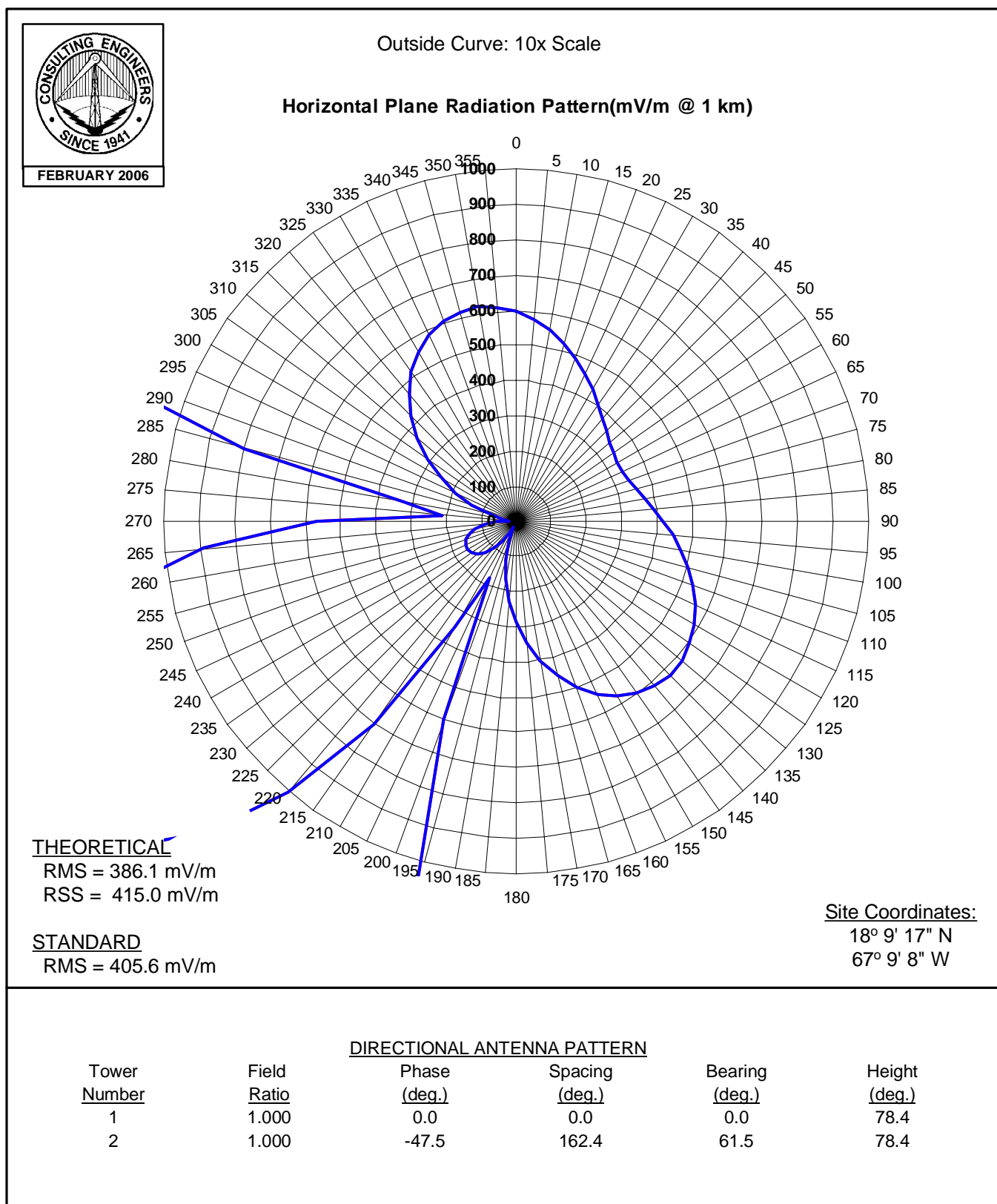


DAYTIME ALLOCATION STUDY ADJACENT CHANNEL STATIONS

AM STATION WI2XSO
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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Figure 7A



PROPOSED NIGHTTIME STANDARD RADIATION PATTERN

AM STATION W12XSO
 MAYAGUEZ, PUERTO RICO
 1260 KHZ 5 KW-D 1.8 KW-N DA-2 U

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NIGHTTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

Tower <u>Number</u>	Field <u>Ratio</u>	Phase <u>(deg.)</u>	Spacing <u>(deg.)</u>	Bearing <u>(deg.)</u>	Height <u>(deg.)</u>
1	1.000	0.0	0.0	0.0	78.4
2	1.000	-47.5	162.4	61.5	78.4

Input Power <u>(kW)</u>	Loop Loss <u>(ohms)</u>	Theo. RMS <u>(mV/m)</u>	Theo. RSS <u>(mV/m)</u>	Q Factor <u>(mV/m)</u>	Standard RMS <u>(mV/m)</u>
1.80	1.0	386.1	415.0	13.4	405.6

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	595	593	585	572	554	531	504
5	575	573	566	555	539	518	494
10	550	548	543	533	520	502	480
15	522	520	516	509	498	483	465
20	492	491	488	482	474	463	448
25	462	461	459	456	450	442	430
30	432	432	431	430	426	421	413
35	405	405	406	406	405	402	396
40	381	382	383	385	385	385	382
45	362	362	364	367	369	371	370
50	346	347	350	353	357	360	361
55	337	338	340	345	349	353	354
60	332	333	336	341	346	350	352
65	333	334	337	342	346	350	352
70	340	341	344	348	352	355	357
75	352	353	355	358	362	364	364
80	369	370	371	373	375	376	374
85	390	391	392	393	393	391	387
90	416	416	416	415	413	409	403
95	444	443	442	440	436	429	419
100	474	473	470	466	460	450	437
105	504	503	499	493	484	471	454
110	534	532	527	519	507	491	471
115	561	559	552	542	528	509	486
120	584	582	574	562	545	524	498
125	602	599	591	577	559	535	507
130	613	610	601	586	566	541	511
135	616	613	604	588	567	541	510
140	611	608	598	583	561	535	504
145	597	593	584	569	548	522	492
150	573	570	561	547	527	503	474
155	541	538	530	517	499	477	451
160	500	498	491	480	465	446	423
165	453	451	446	437	425	409	391
170	400	399	395	389	380	369	355
175	344	343	341	338	332	325	316

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	472	437	399	358	314	270	224
5	465	432	396	356	314	270	225
10	455	425	391	354	313	270	225
15	442	415	385	350	311	270	226
20	428	405	377	345	309	269	225
25	414	394	369	340	306	267	225
30	400	383	362	335	302	265	225
35	387	373	354	329	299	264	224
40	375	364	347	325	296	262	223
45	365	356	341	321	294	261	223
50	358	350	337	318	292	260	222
55	353	346	334	316	291	259	222
60	350	344	333	315	290	259	222
65	351	345	333	315	290	259	222
70	354	347	335	316	291	259	222
75	360	352	339	319	293	260	222
80	369	359	344	322	295	261	223
85	380	367	350	327	297	263	224
90	392	377	357	331	300	265	224
95	406	388	365	337	304	266	225
100	420	399	373	342	307	268	225
105	434	409	380	347	310	269	226
110	447	419	387	351	312	270	226
115	459	428	393	355	314	270	225
120	468	434	397	357	314	270	224
125	474	438	399	358	314	269	223
130	477	439	399	357	312	267	221
135	475	437	396	353	309	264	219
140	469	431	390	348	305	260	216
145	458	421	382	341	298	255	212
150	442	407	370	331	291	249	208
155	422	390	355	319	281	243	203
160	397	369	338	305	271	235	198
165	369	345	319	290	259	226	192
170	338	319	297	273	246	217	186
175	305	291	274	255	233	207	179

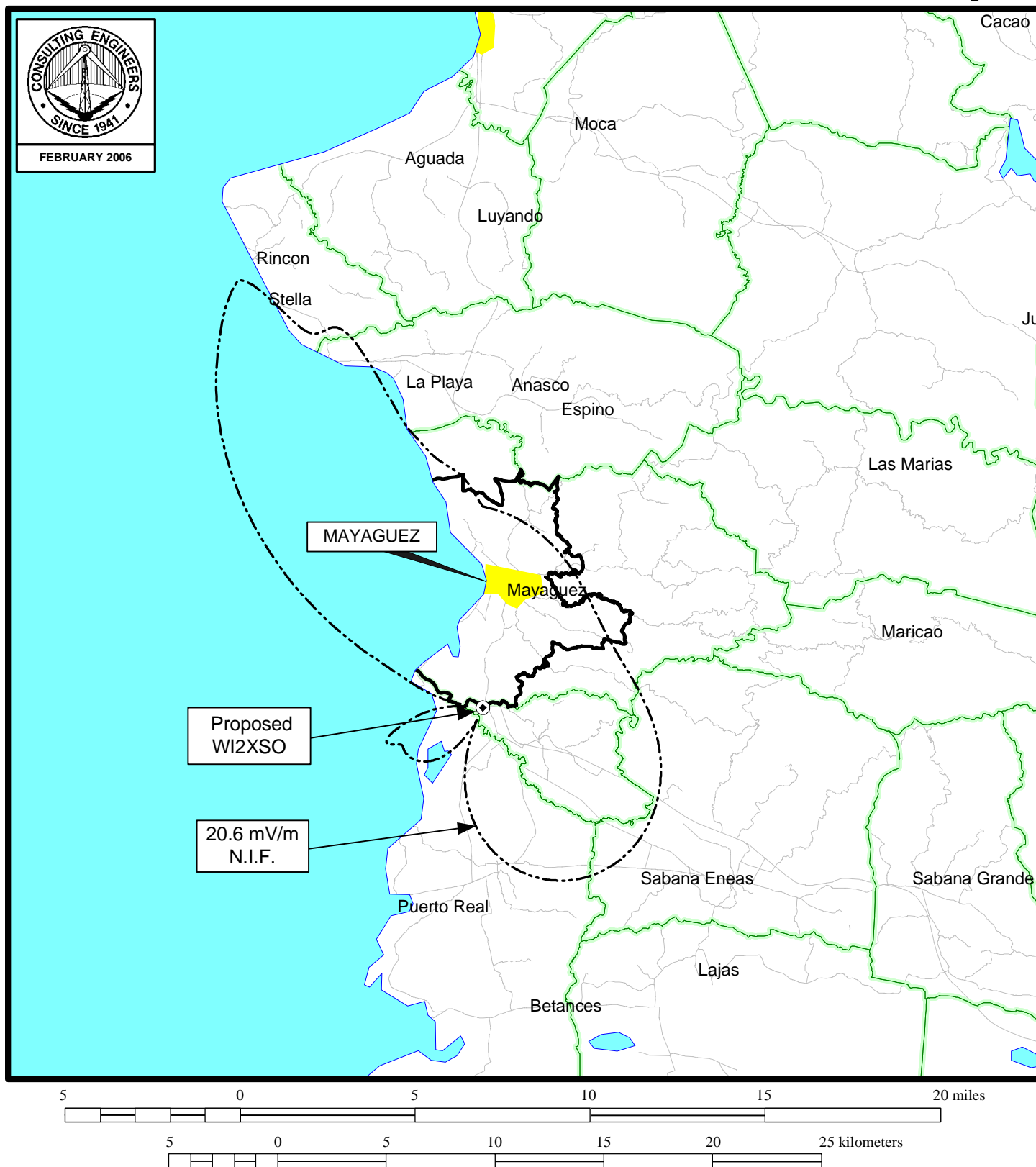
Standard Radiation Pattern
(at One Kilometer)

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	285	285	285	284	283	280	276
185	226	226	228	230	232	235	236
190	167	168	172	177	183	190	196
195	112	113	118	126	135	146	157
200	60.0	62.1	68.3	78.0	90.7	105	121
205	17.6	19.2	24.9	35.5	50.3	68.0	87.1
210	35.0	32.3	24.6	14.9	17.5	35.3	57.2
215	70.3	67.1	57.6	42.6	24.0	12.9	31.8
220	101	97.1	86.7	70.2	48.7	24.4	13.8
225	125	121	110	92.6	69.5	42.6	15.7
230	143	139	127	109	85.1	56.7	26.4
235	154	150	139	120	95.2	65.9	34.3
240	159	155	144	125	100	70.1	37.9
245	158	154	142	123	98.5	69.0	37.0
250	150	146	135	116	91.8	62.9	31.6
255	136	132	121	103	79.5	51.6	22.3
260	116	112	101	84.3	61.8	35.6	12.3
265	89.2	85.8	75.7	59.7	39.1	17.0	19.6
270	56.7	53.6	44.6	30.6	15.2	19.4	41.3
275	21.1	19.0	14.5	16.0	29.0	47.7	68.7
280	32.3	34.5	41.0	51.7	65.9	82.4	100
285	80.1	82.0	87.7	96.6	108	121	135
290	134	135	139	146	154	163	172
295	190	191	194	198	203	207	212
300	249	250	250	252	253	253	252
305	309	308	307	306	303	298	292
310	367	366	363	358	352	343	332
315	422	420	416	409	399	385	370
320	473	471	465	455	441	424	404
325	517	515	508	496	479	459	435
330	555	552	544	530	511	488	461
335	584	580	571	557	536	511	482
340	603	600	591	575	554	528	497
345	614	611	601	586	565	538	507
350	616	613	604	588	568	542	511
355	609	606	598	583	564	539	510

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	270	262	251	236	219	197	173
185	235	233	227	218	205	187	166
190	201	203	203	199	190	177	159
195	167	175	180	181	177	168	153
200	135	148	158	163	164	158	147
205	106	123	138	147	152	150	141
210	79.7	101	119	133	141	142	136
215	56.9	81.3	103	120	131	135	131
220	37.9	64.8	89.2	109	123	129	127
225	23.3	51.6	78.1	100	116	124	124
230	14.1	41.8	69.9	93.5	111	121	122
235	11.0	35.5	64.5	89.3	108	118	120
240	11.1	32.8	62.2	87.3	106	117	119
245	11.0	33.4	62.7	87.8	107	117	120
250	11.6	37.6	66.3	90.7	109	119	121
255	17.0	45.3	72.8	95.9	113	122	123
260	28.5	56.4	82.2	103	118	126	125
265	45.0	71.0	94.3	113	126	131	129
270	65.6	88.8	109	125	135	138	133
275	89.9	110	126	138	145	145	138
280	117	133	145	154	156	153	143
285	148	159	167	170	169	162	149
290	180	186	189	188	182	171	155
295	214	215	212	206	196	181	162
300	249	244	236	225	210	191	169
305	284	274	260	244	224	201	175
310	318	302	284	262	238	211	182
315	351	330	306	280	251	221	188
320	381	355	327	296	264	230	194
325	408	378	345	311	275	238	200
330	431	397	361	324	285	245	205
335	449	413	375	335	294	252	210
340	463	425	385	344	301	257	214
345	472	434	393	350	307	262	217
350	476	438	398	355	311	265	220
355	476	439	400	357	313	268	222

Figure 9A



PREDICTED NIGHTTIME COVERAGE CONTOURS

AM STATION WI2XS0
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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

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FACILITY ID 89243
1260 KHZ 5 KW-D 1.8 KW-N DA-2 U

Nighttime Allocation Study

Call: HIT

Freq: 1260 kHz
S DOMINGO 4, DR
Lat: 18-29-00 N
Lng: 069-52-00 W
Power: 0.25 kW
Theo RMS: 309.40 mV/m @ 1km

Standard: NARBA [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Limit (mV/m)	(%)	RSS Limit (mV/m)
UNK-A	1260	CONAREE 1		SC	36.223	100.0	36.223
WI2XSO_L	1260	MAYAGUEZ	PR	US	10.146	24.6	42.414
WI2XSO_P	1260	MAYAGUEZ	PR	US	4.847		

Comments:

Reduction in limit contribution from 10.146 to 4.847 mV/m

Call: WSUA

Freq: 1260 kHz
MIAMI, FL, US
Lat: 25-46-23 N
Lng: 080-25-17 W
Power: 5.0 kW
Theo RMS: 703.50 mV/m @ 1km

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Limit (mV/m)	(%)	RSS Limit (mV/m)
UNK-A	1260	CONAREE 1		SC	7.875	100.0	7.875
WNDE	1260	INDIANAPOLIS	IN	US	5.557	70.6	9.638
WWRC	1260	WASHINGTON	DC	US	4.589	47.6	10.675
KSGF	1260	SPRINGFIELD	MO	US	3.610	33.8	11.269
WNXT	1260	PORTSMOUTH	OH	US	3.467	30.8	11.790
YVRM-A	1260	CARACAS 4		VE	3.406	28.9	12.272
HJMI-A	1260	VALLEDUPAR		CO	3.252	26.5	12.696
WCHV	1260	CHARLOTTESVILLE	VA	US	3.251	25.6	13.105
WISO	1260	PONCE	PR	US	2.461	16.5	15.122
WI2XSO	1260	MAYAGUEZ	PR	US	1.595	10.1	15.930
WI3XSO	1260	AGUADILLA	PR	US	1.441	9.0	16.141

Comments:

25% Limit = 3.276 mV/m [13.105/4]

Quadratic Contribution = 3.268 mV/m [SQRT(2.461^2 + 1.595^2 + 1.441^2)]



VIEW LOOKING NORTH

SITE PHOTOGRAPHS

AM STATION WI2XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING NORTHEAST

SITE PHOTOGRAPHS

AM STATION WI2XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING EAST

SITE PHOTOGRAPHS

AM STATION W12XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING SOUTHEAST

SITE PHOTOGRAPHS
AM STATION W12XSO
MAYAGUEZ, PUERTO RICO
1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING SOUTH

SITE PHOTOGRAPHS

AM STATION W12XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING SOUTHWEST

SITE PHOTOGRAPHS

AM STATION W12XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING WEST

SITE PHOTOGRAPHS

AM STATION W12XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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



VIEW LOOKING NORTHWEST

SITE PHOTOGRAPHS

AM STATION W12XSO

MAYAGUEZ, PUERTO RICO

1260 KHz 5 KW-D 1.8 KW-N DA-2 U

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

NATIONAL ASTRONOMY AND IONOSPHERE CENTER
ARECIBO OBSERVATORY



May 3, 2005

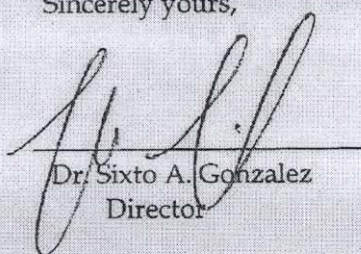
Mr. Wilfredo G. Blanco-Pi
Eng.
Cadena Wapa-Radio
Ave. Domenech 134
Hato Rey, PR 00918-3502

Re: FCC # BP-20050429AAB
Relocation and Power Increase For W12XSO 1260Khz. Mayaguez PR

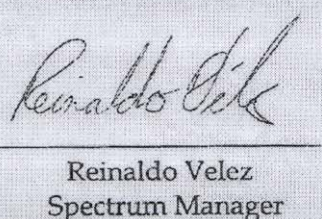
Dear Mr. Wifredo G. Blanco-Pi:

Thank you very much for the copy of your FCC application sent to us in accordance with the Puerto Rico Coordination zone agreements. We have considered the technical aspects of your application and find that your installation is unlikely to cause harmful interference to the passive use of the Radio Astronomy bands at the Observatory. We therefore have no objection to your proposed installation.

Sincerely yours,



Dr. Sixto A. Gonzalez
Director



Reinaldo Velez
Spectrum Manager

EC:ws

Cc: FCC
PRCZ files [File #0050508]