

ENGINEERING EXHIBIT
IN SUPPORT OF AN APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NO. BP-20030702AAJ
STATION KPDQ(AM) - PORTLAND, OREGON
800 kHz - 1.0 kW DAY/0.6 kW NIGHT - DA-N

Applicant: Salem Media of Oregon, Inc.

March, 2005

**CARL T. JONES**
CORPORATION

TABLE OF CONTENTS

FCC Form 301 - Section III

ENGINEERING STATEMENT OF CYNTHIA M. JACOBSON, P.E.

FIGURE

Antenna Sketch	1
Ground System Plat	2
Nighttime Horizontal Standard Radiation Pattern	3
Tabulation of Nighttime Horizontal Field	4
Tabulation of Nighttime Vertical Fields	5-16
Present and Proposed Nighttime 1000 mV/m Contour	17
Nighttime Allocation Study	18
Present and Proposed Nighttime Interference-Free Contours	19
Present and Proposed Skywave Contours Toward XEROK	20



**STATEMENT OF CYNTHIA M. JACOBSON
IN SUPPORT OF AN APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
FCC FILE NO. BP-20030702AAJ
STATION KPDQ(AM) - PORTLAND, OREGON
800 kHz - 1.0 kW DAY/0.6 kW NIGHT - DA-N
FACILITY NUMBER: 58628**

Applicant: Salem Media of Oregon, Inc.

I am a Consulting Radio Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia.

My education and experience are a matter of record with the Federal Communications Commission. I am a Registered Professional Engineer in the Commonwealth of Virginia, Registration No. 027914.

GENERAL

This office has been authorized by Salem Media of Oregon, Inc. ("Salem"), licensee of standard broadcast station KPDQ(AM), Portland, Oregon, to prepare this statement, FCC Form 301, Section III, and the attached engineering figures in support of an Application for Modification of Construction Permit (FCC File No. BP-20030702AAJ) to modify the nighttime facilities of KPDQ.

KPDQ is presently licensed to operate on 800 kilohertz with a power of 1.0 kilowatts daytime and 0.5 kilowatts nighttime. Both modes of operation utilize a nondirectional

antenna. KPDQ has an outstanding Construction Permit (FCC File No. BP-20030702AAJ) to operate at 1.0 kW with the addition of one new tower at the current site for incorporation into the night array. Local zoning required that the new tower had to be shifted slightly¹, thus necessitating the filing of this application. The power level and electrical parameters have also been modified to meet the necessary protection requirements. No changes are proposed to the tower height or to the tower dimensions.

The instant application proposes to construct one new tower at the current site for incorporation into the night array. It is proposed to operate with a two-tower array at a power level of 0.6 kilowatts during nighttime hours. No changes are proposed to the daytime operation.

ANTENNA SYSTEM

The proposed nighttime antenna system will consist of two towers. The existing tower is a uniform cross-section guyed tower, 76.1 electrical degrees in height. The proposed new tower will be a tapered, self-supporting structure, 56.5 electrical degrees in height. The new tower in conjunction with the present tower, will be employed for nighttime only. The details of the nighttime directional antenna system are contained in Figure 1. Figure 3 is a polar plot of the proposed nighttime directional radiation pattern in the horizontal plane, and Figure 4 is a tabulation of the nighttime horizontal fields in mV/m at

¹The proposed new tower spacing has been increased by 9.9 meters with a re-orientation of 9.3 degrees more azimuth.

1 kilometer. Figures 5 through 16 are tabulations of the vertical fields of the proposed night KPDQ antenna pattern.

GROUND SYSTEM

The proposed ground system for Tower 2 will consist of 120 buried, copper wire radials, 30.5 meters in length. The length of the radials were reduced to less than 1/4 wavelength to obtain local zoning approval.

The existing ground system around Tower 1 consists of 120 evenly spaced, buried, copper wire radials, 91 meters long, except where shortened due to property restrictions or when bonded to a transverse copper strap between towers, with 15 meter long radials interspersed between.

A sketch of the ground system is shown in Figure 2.

FAA NOTIFICATION AND TOWER REGISTRATION

The proposed new antenna structure will be 59.7 meters AGL (125.2 meters AMSL). A vertical sketch of the towers is shown in Figure 1. A Determination of No Hazard, Aeronautical Study No. 2003-ANM-1100-OE was issued on June 9, 2003 by the Western Pacific Regional Office. The slight relocation of the new tower from that of the outstanding Construction Permit is negligible, therefore the coordinates of the new tower remain the same.

Because the proposed tower structure is less than 60.96 meters, the structure will be exempted from the FCC tower registration process.

SITE AND SURROUNDING TERRAIN

The center of the array coordinates for the night array are:

North Latitude: 45E 28' 39"

West Longitude: 122E 45' 03"

The site elevation was obtained from data on file with the FCC. Site photographs and a map of the proposed site are contained in FCC files.

BLANKETING AND STATION INTERACTION

The population within the proposed KPDQ nighttime 1000 mV/m contour is less than 300 persons, therefore, Section 73.24(g) of the Rules is satisfied. The present and proposed 1000 mV/m nighttime contours are depicted in Figure 17.

In response to all complaints of blanketing interference, the applicant will undertake steps to mitigate the blanketing effects in accordance with the requirements of Section 73.88.

There are no AM stations located within 3.2 kilometers of the proposed KPDQ antenna site. There are several FM stations and TV stations located within 10 kilometers of the proposed site. It is expected that no detrimental interaction will occur with any station, particularly since KPDQ currently operates from this site.

COVERAGE CONTOURS

The present and proposed nighttime service contours are shown in Figure 19. The present and proposed nighttime interference-free contours do not serve the entire community of license. The present 10.5 mV/m nighttime interference-free contour encompasses 38.6% of the city of license, Portland, Oregon. The proposed 10.5 mV/m nighttime interference-free contour will encompass 40.9% of the city of license. Both the present and proposed nighttime fail to meet the requisite service to the city of license.

Therefore, it is respectfully requested that a waiver of Section 73.24(i) of the Rules be granted.

JUSTIFICATION FOR WAIVER

The proposed nighttime operation of KPDQ seeks to increase coverage of the city of license. A 2.3% increase in coverage of Portland over that provided by KPDQ's licensed facility will be realized with the proposed night operation.

The proposed nighttime city coverage is less than that proposed in the outstanding Construction Permit authorization². However, local zoning issues prohibit realization of the coverage that Construction Permit application proposed. KPDQ applied several years ago for zoning approval for addition of the second tower at its site. When KPDQ later prepared and filed the Construction Permit application, the tower's placement at the site was

²FCC File No. BP-20030702AAJ proposed 10.5 mV/m nighttime interference-free contour encompassed 56.2% of the city of license.

modified somewhat in the application to provide protection to a subsequently filed notification of a proposed modification of a Mexican station. Meanwhile, after an extended zoning process, zoning approval was finally granted for the placement of the tower as proposed in the original zoning application and local zoning authorities would not agree to modify the tower placement at the site to correspond to the Construction Permit. As a result, this application proposes modification of the Construction Permit to correspond to the tower placement approved by zoning authorities. The impact of modifying the placement of the new second tower due to these zoning issues, coupled with the required nighttime protections, has resulted in less nighttime service to Portland than authorized in the unbuildable Construction Permit, but an increase over that provided by the licensed KPDQ facility. All attempts were made to adjust the electrical parameters to maximize coverage of Portland.

Therefore, it is submitted that the public interest would be served by a waiver of Section 73.24(i) of the Rules and grant of the KPDQ proposal described herein.

NIGHTTIME ALLOCATION STUDY

The results of the nighttime study are shown in Figures 18 and 20. Figure 18 is a tabulation of the RSS calculations for co-channel and first-adjacent stations in which KPDQ may impact. The proposed facility of KPDQ will not raise the limit of any co-channel or first-adjacent station.

The frequency of 800 kHz is a Mexican Class A channel. XEROK, Ciudad Juarez, Mexico is the Class A station of concern. Figure 20 depicts the proposed 0.025 mV/m - 10% skywave contour of KPDQ and the 0.5 mV/m - 50% skywave contour of XEROK. Presently, overlap of the skywave contours occurs. Any increase of overlap occurs in the United States or over the ocean.

ENVIRONMENTAL IMPACT

The proposal described herein does not involve high intensity lighting as specified in Section 1.1307(a)(8) of the rules, nor will it result in human exposure to radiofrequency radiation in excess of the standards specified in Section 1.1307(b). The applicant has determined that under the provisions of Section 1.1306, the proposal is excluded from environmental processing.

Further explanation for the criteria specified in Section 1.1307(a)(1)-(7) can be found in this report as a separate attachment.

RADIOFREQUENCY IMPACT

On January 1, 1986, the FCC amended its Rules to implement the National Environmental Policy Act of 1969 (NEPA). This amendment established RF radiation protection guidelines to be used to determine if potentially harmful RF exposure is possible from an FCC-regulated transmission facility. Effective October 15, 1997, the FCC adopted revised guidelines and procedures for evaluating environmental effects of RF emissions.

These revised guidelines incorporate two tiers of exposure limits based on whether exposure occurs in a “controlled” (occupational) situation or an “uncontrolled” (general population) situation. The FCC has also revised OET Bulletin No. 65 entitled, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields,” to aid in the radiation exposure analysis. This bulletin, as well as other current literature, provides detailed information for conducting an analysis including mathematical equations that can be used to determine compliance with the Commission’s guidelines.

CALCULATION METHODS

Verification of compliance with FCC-specified guidelines for human exposure to RF radiation was obtained from OET Bulletin No. 65. To obtain distance to compliance with the guidelines, Tables 1 and 2, Section 1 of Supplement A was used. The proposed KPDQ facility will operate on 800 kHz with a nominal power of 1.0 kW daytime and 0.6 kW nighttime (DA-N). Assuming a worst-case scenario of 1.0 kW of power in each tower, a fence of at least 3 meters (9.8 feet) from the base of each tower will be constructed. This fencing requirement will satisfy both the occupational/controlled and general population/uncontrolled MPE limits. The fences will be locked to preclude public access to the towers and appropriate warning signs will also be posted.

It is submitted that the proposed KPDQ station will not constitute a potential hazard to the quality of the human environment. Accordingly, the KPDQ proposal, as described

herein, should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Rules.

OCCUPATIONAL SAFETY

Access to the KPDQ antenna supporting tower bases will be restricted to authorized maintenance personnel only. KPDQ insures protection to station personnel or tower contractors working in the vicinity of the towers. Procedures will be followed during times of service or maintenance of the transmission systems when necessary to avoid potentially harmful exposure to personnel.

In light of the above, the proposed KPDQ facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

CONCLUSION

This statement and Section III of FCC Form 301 and the attached figures were prepared by me or under my direct supervision and are believed to be true and correct.

It is submitted that the proposed operation described herein complies with the technical standards of the Rules and Regulations of the Commission.

DATED: March 21, 2005

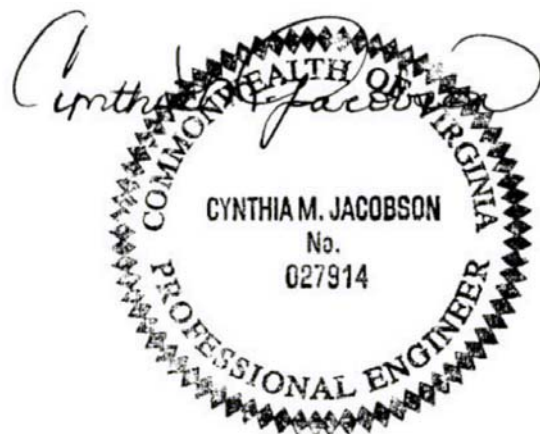


FIGURE 1

COORDINATES NAD-27

NIGHT CENTER OF ARRAY

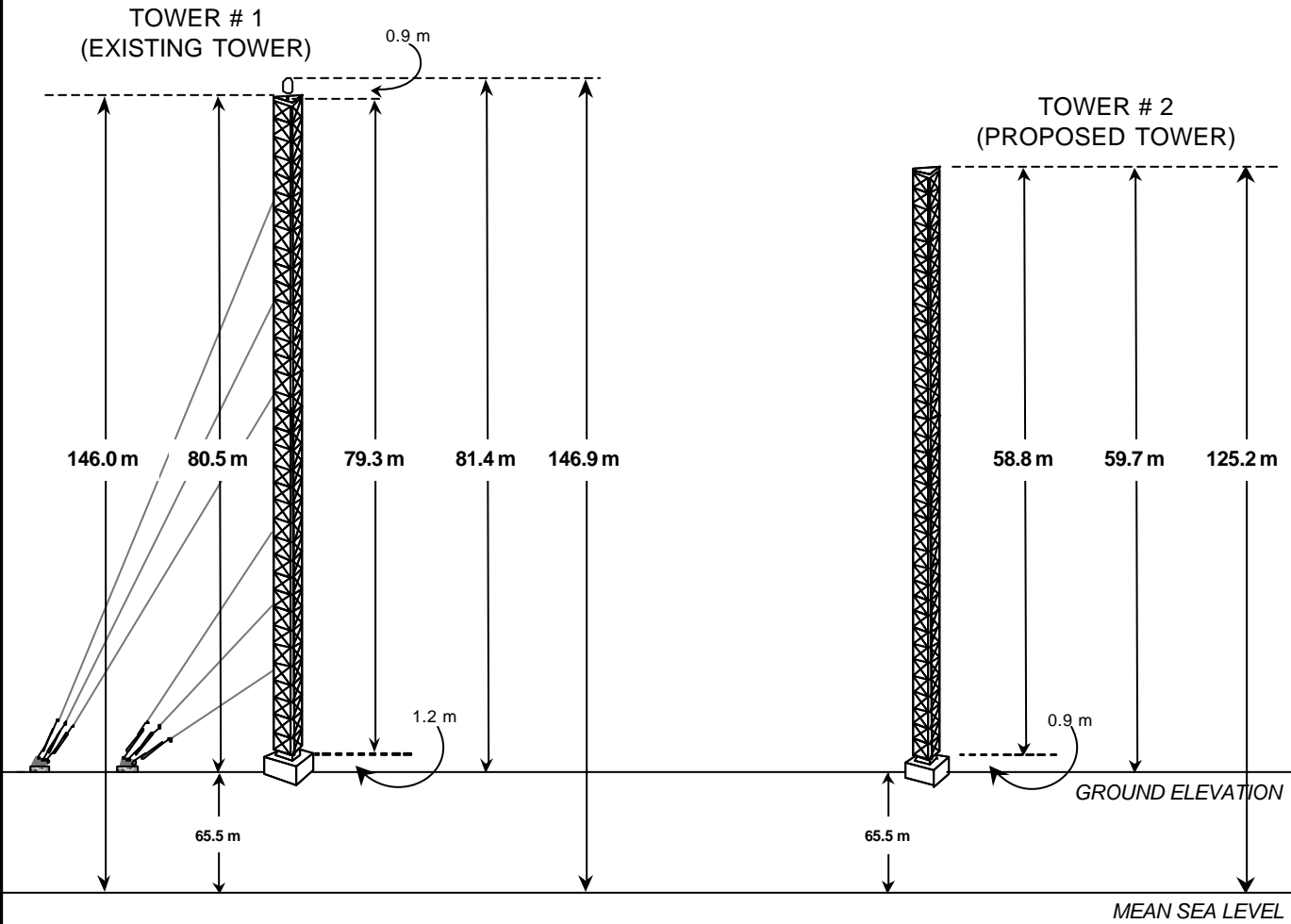
NORTH LATITUDE: 45° 28' 39"
WEST LONGITUDE: 122° 45' 03"

TOWER # 1

NORTH LATITUDE: 45° 28' 39"
WEST LONGITUDE: 122° 45' 01"

TOWER # 2

NORTH LATITUDE: 45° 28' 39"
WEST LONGITUDE: 122° 45' 05"

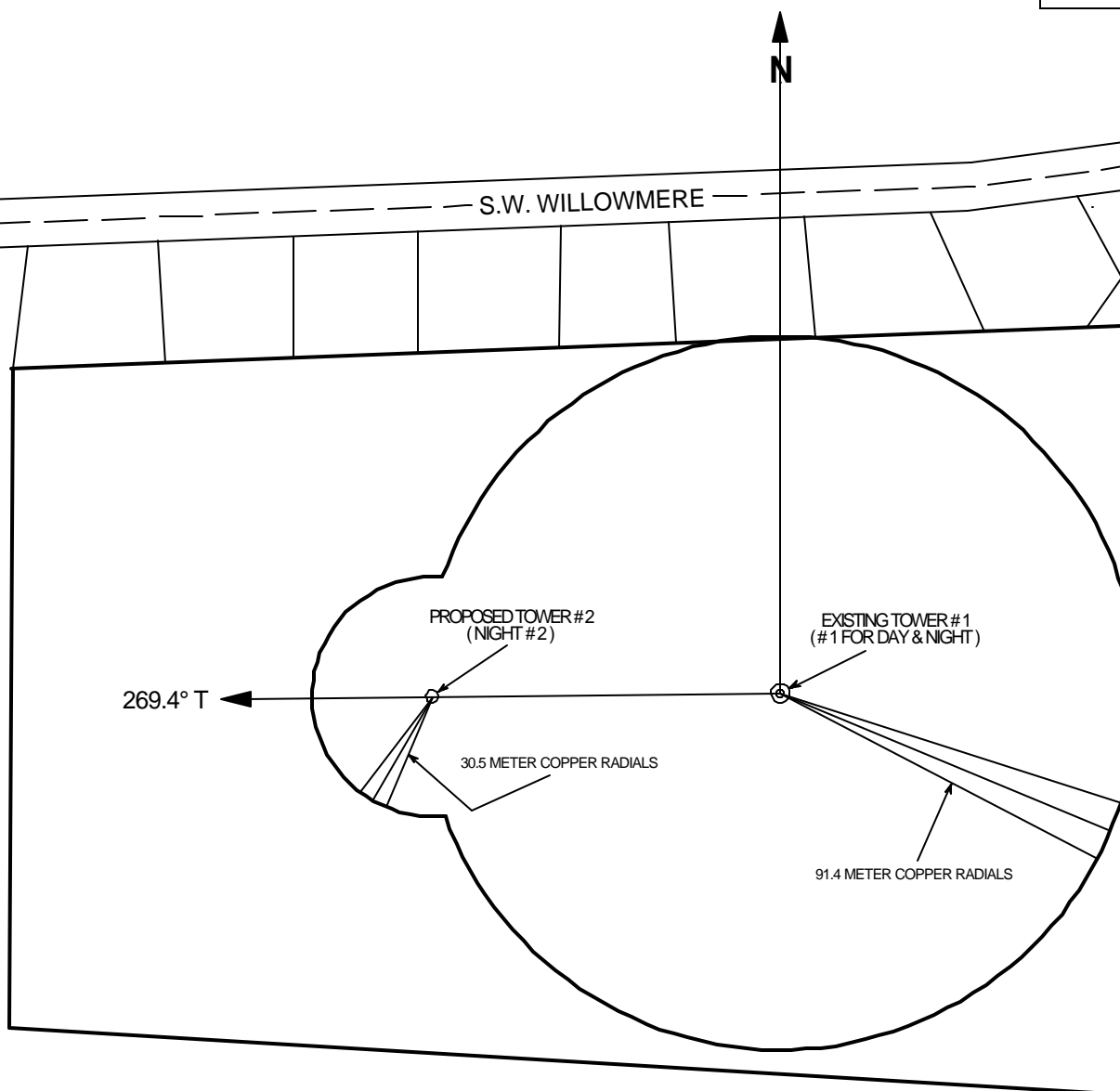


VERTICAL PLAN ANTENNA SKETCH
KPDQ - PORTLAND, OREGON
800 kHz - 1.0 kW D / 0.6 kW N - DA-N
FEBRUARY, 2005

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CORPORATION

NOTE : NOT DRAWN TO SCALE

FIGURE 2



PROPOSED GROUND SYSTEM
for
KPDQ - PORTLAND, OREGON
800 kHz - 1.0 kW D / 0.6 kW N - DA-N
FEBRUARY, 2005

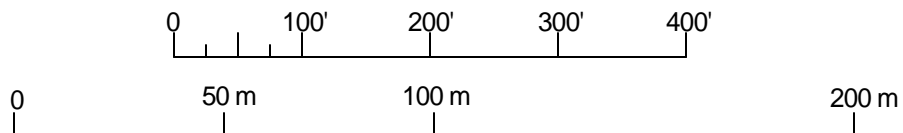
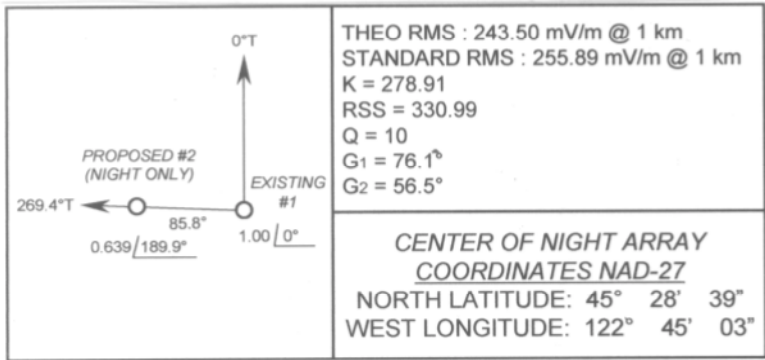
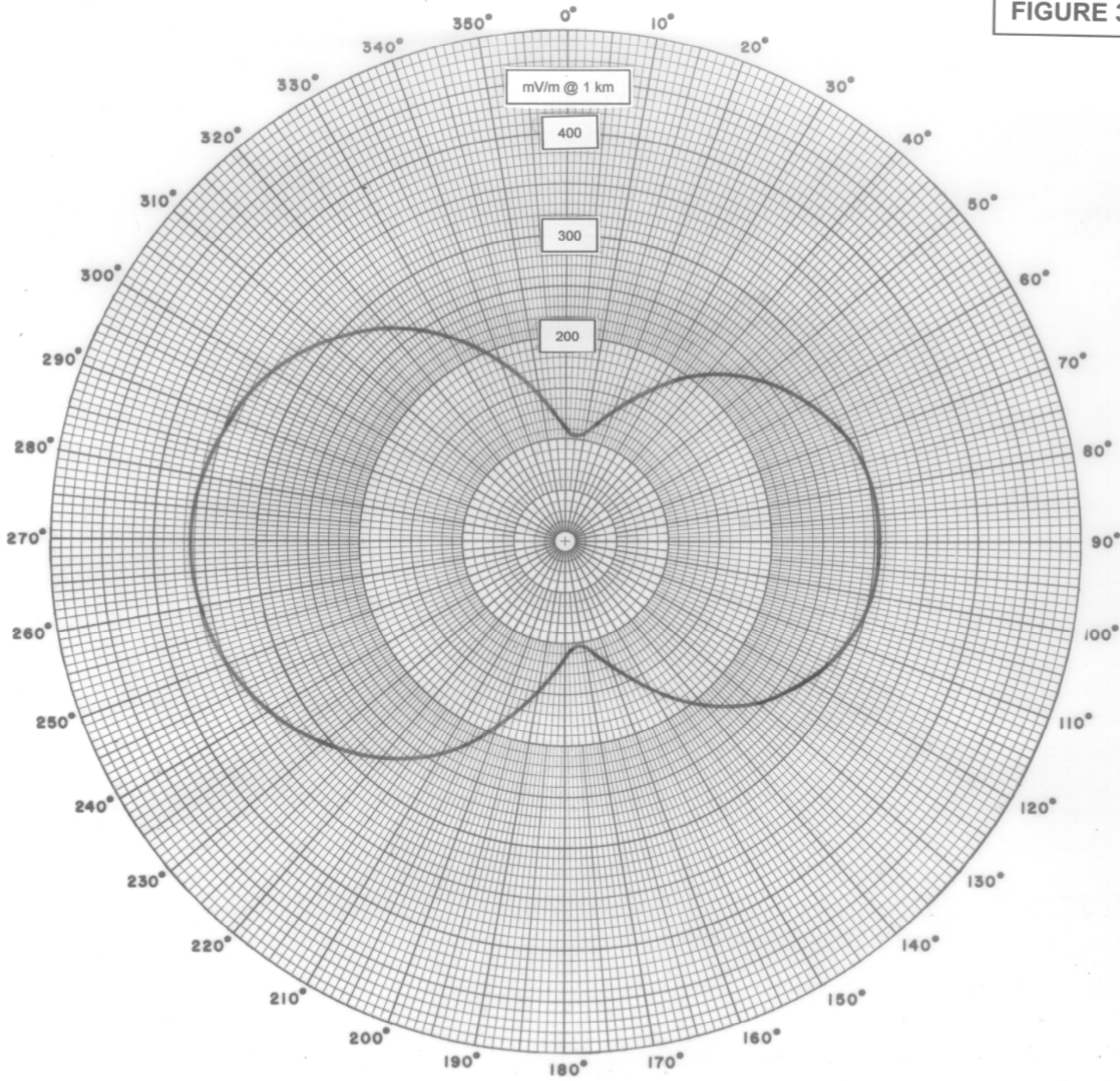


FIGURE 3



PROPOSED NIGHTTIME HORIZONTAL PLANE
STANDARD RADIATION PATTERN
KPDQ - PORTLAND, OREGON
800 kHz - 1.0 kW D / 0.6 kW N - DA-N
FEBRUARY, 2005

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Figure 4

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NIGHTTIME HORIZONTAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	106.6	112.4	180	109.1	115.0
5	100.9	106.4	185	123.1	129.7
10	103.3	108.9	190	141.3	148.7
15	112.9	119.0	195	161.7	170.1
20	127.7	134.5	200	183.0	192.5
25	145.3	152.9	205	204.3	214.7
30	164.1	172.6	210	224.8	236.3
35	182.9	192.3	215	244.2	256.6
40	201.0	211.3	220	262.1	275.4
45	218.0	229.2	225	278.4	292.5
50	233.5	245.4	230	293.0	307.8
55	247.4	260.0	235	305.7	321.2
60	259.4	272.6	240	316.7	332.7
65	269.6	283.3	245	325.8	342.3
70	277.9	292.0	250	333.2	350.0
75	284.3	298.7	255	338.8	355.9
80	288.8	303.4	260	342.7	360.0
85	291.4	306.1	265	345.0	362.4
90	292.1	306.9	270	345.6	363.0
95	290.9	305.7	275	344.6	361.9
100	287.9	302.5	280	341.9	359.2
105	282.9	297.3	285	337.6	354.6
110	276.1	290.1	290	331.6	348.3
115	267.3	280.9	295	323.8	340.1
120	256.7	269.7	300	314.2	330.1
125	244.2	256.6	305	302.9	318.2
130	230.0	241.7	310	289.7	304.3
135	214.1	225.0	315	274.7	288.6
140	196.8	206.9	320	257.9	271.0
145	178.4	187.6	325	239.6	251.8
150	159.5	167.8	330	219.9	231.2
155	140.9	148.3	335	199.2	209.4
160	123.8	130.4	340	177.9	187.1
165	110.1	116.0	345	156.7	164.9
170	102.0	107.6	350	136.6	143.9
175	101.5	107.1	355	119.3	125.7

Fields in mV/m @ 1 Kilometer

Figure 5

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 5 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	106.0	111.8	180	108.4	114.3
5	100.3	105.8	185	122.3	128.9
10	102.6	108.2	190	140.4	147.7
15	112.1	118.2	195	160.6	169.0
20	126.7	133.5	200	181.7	191.1
25	144.1	151.7	205	202.8	213.2
30	162.7	171.2	210	223.1	234.5
35	181.4	190.7	215	242.4	254.7
40	199.4	209.6	220	260.2	273.4
45	216.2	227.3	225	276.4	290.4
50	231.6	243.4	230	290.8	305.6
55	245.3	257.8	235	303.5	318.9
60	257.3	270.4	240	314.4	330.3
65	267.4	281.0	245	323.4	339.8
70	275.6	289.6	250	330.7	347.4
75	282.0	296.3	255	336.3	353.3
80	286.5	301.0	260	340.2	357.4
85	289.0	303.7	265	342.5	359.7
90	289.7	304.4	270	343.1	360.4
95	288.6	303.2	275	342.1	359.3
100	285.6	300.0	280	339.4	356.6
105	280.6	294.9	285	335.1	352.1
110	273.8	287.7	290	329.1	345.8
115	265.2	278.6	295	321.4	337.7
120	254.6	267.5	300	311.9	327.7
125	242.2	254.5	305	300.6	315.8
130	228.0	239.7	310	287.5	302.1
135	212.3	223.1	315	272.6	286.5
140	195.1	205.2	320	256.0	269.1
145	176.9	186.1	325	237.9	250.0
150	158.2	166.5	330	218.3	229.5
155	139.8	147.2	335	197.8	207.9
160	122.9	129.4	340	176.6	185.8
165	109.3	115.2	345	155.6	163.7
170	101.3	106.9	350	135.8	142.9
175	100.9	106.5	355	118.5	124.9

Fields in mV/m @ 1 Kilometer

Figure 6

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 10 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	104.1	109.8	180	106.5	112.3
5	98.5	103.9	185	120.1	126.5
10	100.6	106.1	190	137.6	144.9
15	109.8	115.7	195	157.3	165.5
20	123.8	130.4	200	177.9	187.1
25	140.7	148.1	205	198.4	208.6
30	158.7	167.0	210	218.3	229.4
35	176.9	186.0	215	237.1	249.1
40	194.4	204.4	220	254.5	267.4
45	210.8	221.6	225	270.3	284.0
50	225.9	237.4	230	284.4	298.8
55	239.3	251.4	235	296.9	311.9
60	251.0	263.7	240	307.5	323.0
65	260.9	274.1	245	316.4	332.4
70	268.9	282.6	250	323.6	339.9
75	275.1	289.1	255	329.1	345.7
80	279.5	293.7	260	332.9	349.7
85	282.0	296.3	265	335.1	352.0
90	282.7	297.0	270	335.7	352.6
95	281.6	295.9	275	334.7	351.6
100	278.6	292.7	280	332.1	348.9
105	273.8	287.7	285	327.9	344.4
110	267.2	280.7	290	322.0	338.3
115	258.6	271.8	295	314.4	330.3
120	248.3	260.9	300	305.1	320.5
125	236.2	248.2	305	294.0	308.9
130	222.4	233.7	310	281.2	295.4
135	207.0	217.6	315	266.6	280.2
140	190.3	200.1	320	250.4	263.1
145	172.6	181.5	325	232.7	244.5
150	154.4	162.4	330	213.6	224.5
155	136.5	143.7	335	193.6	203.5
160	120.1	126.5	340	173.0	181.9
165	107.0	112.8	345	152.5	160.4
170	99.4	104.9	350	133.2	140.2
175	99.1	104.6	355	116.4	122.6

Fields in mV/m @ 1 Kilometer

Figure 7

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 15 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	101.1	106.6	180	103.4	109.1
5	95.6	100.9	185	116.4	122.6
10	97.4	102.8	190	133.2	140.2
15	105.9	111.6	195	152.0	159.9
20	119.2	125.5	200	171.7	180.6
25	135.1	142.2	205	191.4	201.2
30	152.3	160.2	210	210.4	221.1
35	169.6	178.4	215	228.4	240.1
40	186.4	196.0	220	245.1	257.6
45	202.1	212.5	225	260.4	273.6
50	216.5	227.6	230	274.0	287.9
55	229.4	241.1	235	286.0	300.5
60	240.7	252.9	240	296.3	311.3
65	250.2	262.9	245	304.9	320.3
70	258.0	271.1	250	311.9	327.6
75	264.0	277.4	255	317.2	333.2
80	268.2	281.8	260	320.9	337.1
85	270.6	284.4	265	323.1	339.4
90	271.3	285.1	270	323.6	340.0
95	270.2	283.9	275	322.7	339.0
100	267.3	280.9	280	320.2	336.3
105	262.7	276.0	285	316.1	332.0
110	256.3	269.3	290	310.3	326.0
115	248.1	260.7	295	303.0	318.3
120	238.1	250.2	300	294.0	308.8
125	226.5	238.0	305	283.3	297.6
130	213.2	224.1	310	270.9	284.6
135	198.4	208.6	315	256.9	269.9
140	182.4	191.8	320	241.3	253.5
145	165.5	174.1	325	224.2	235.6
150	148.1	155.9	330	205.9	216.4
155	131.1	138.1	335	186.7	196.3
160	115.7	121.8	340	167.0	175.6
165	103.3	109.0	345	147.4	155.1
170	96.3	101.6	350	128.9	135.7
175	96.3	101.6	355	112.9	118.9

Fields in mV/m @ 1 Kilometer

Figure 8

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 20 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	97.0	102.3	180	99.2	104.6
5	91.7	96.7	185	111.4	117.4
10	93.1	98.2	190	127.2	133.9
15	100.7	106.2	195	144.9	152.4
20	112.9	118.9	200	163.3	171.8
25	127.7	134.4	205	181.8	191.1
30	143.7	151.2	210	199.7	210.0
35	159.9	168.1	215	216.8	227.8
40	175.6	184.6	220	232.6	244.4
45	190.4	200.1	225	247.0	259.5
50	204.0	214.4	230	259.9	273.1
55	216.2	227.2	235	271.3	285.1
60	226.8	238.3	240	281.1	295.4
65	235.8	247.8	245	289.4	304.0
70	243.2	255.6	250	296.0	311.0
75	248.9	261.5	255	301.1	316.3
80	252.9	265.8	260	304.7	320.0
85	255.3	268.2	265	306.7	322.2
90	255.9	268.9	270	307.3	322.8
95	254.8	267.8	275	306.4	321.8
100	252.1	264.9	280	303.9	319.3
105	247.7	260.3	285	300.0	315.2
110	241.6	253.9	290	294.5	309.4
115	233.8	245.7	295	287.5	302.1
120	224.4	235.8	300	278.9	293.0
125	213.4	224.2	305	268.7	282.4
130	200.8	211.1	310	257.0	270.0
135	186.9	196.5	315	243.7	256.0
140	171.9	180.7	320	228.9	240.5
145	156.0	164.1	325	212.8	223.6
150	139.8	147.1	330	195.5	205.5
155	124.0	130.5	335	177.4	186.5
160	109.7	115.5	340	158.9	167.1
165	98.4	103.8	345	140.5	147.8
170	92.1	97.2	350	123.2	129.7
175	92.4	97.5	355	108.1	113.9

Fields in mV/m @ 1 Kilometer

Figure 9

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 25 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	92.0	97.0	180	94.1	99.2
5	86.9	91.7	185	105.3	111.0
10	87.8	92.7	190	119.8	126.1
15	94.5	99.6	195	136.1	143.2
20	105.3	110.9	200	153.1	161.0
25	118.6	124.9	205	170.1	178.9
30	133.2	140.1	210	186.7	196.3
35	148.0	155.7	215	202.5	212.8
40	162.4	170.8	220	217.1	228.2
45	176.1	185.1	225	230.6	242.3
50	188.7	198.3	230	242.7	255.0
55	200.0	210.2	235	253.3	266.1
60	209.9	220.5	240	262.5	275.8
65	218.3	229.4	245	270.2	283.9
70	225.1	236.6	250	276.5	290.4
75	230.5	242.2	255	281.3	295.5
80	234.2	246.1	260	284.6	299.0
85	236.4	248.4	265	286.6	301.0
90	237.0	249.0	270	287.1	301.6
95	236.0	248.0	275	286.2	300.7
100	233.5	245.3	280	284.0	298.3
105	229.3	241.0	285	280.2	294.4
110	223.6	235.0	290	275.1	289.0
115	216.4	227.4	295	268.5	282.1
120	207.6	218.2	300	260.4	273.6
125	197.4	207.4	305	250.9	263.6
130	185.8	195.3	310	239.9	252.1
135	172.9	181.8	315	227.5	239.0
140	159.0	167.2	320	213.7	224.6
145	144.5	152.0	325	198.8	208.9
150	129.6	136.4	330	182.8	192.2
155	115.3	121.4	335	166.1	174.6
160	102.4	107.9	340	149.0	156.7
165	92.4	97.5	345	132.1	139.0
170	87.0	91.9	350	116.1	122.3
175	87.6	92.4	355	102.3	107.8

Fields in mV/m @ 1 Kilometer

Figure 10

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 30 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	86.2	90.9	180	88.1	92.9
5	81.3	85.9	185	98.3	103.6
10	81.8	86.3	190	111.3	117.2
15	87.3	92.1	195	125.9	132.5
20	96.6	101.9	200	141.3	148.6
25	108.4	114.1	205	156.7	164.8
30	121.3	127.6	210	171.7	180.5
35	134.5	141.5	215	186.0	195.5
40	147.5	155.1	220	199.4	209.5
45	159.8	168.0	225	211.7	222.4
50	171.2	179.9	230	222.7	234.0
55	181.4	190.7	235	232.5	244.3
60	190.4	200.2	240	241.0	253.2
65	198.1	208.2	245	248.1	260.6
70	204.4	214.8	250	253.9	266.7
75	209.3	219.9	255	258.3	271.4
80	212.7	223.6	260	261.4	274.6
85	214.7	225.7	265	263.2	276.5
90	215.3	226.2	270	263.7	277.1
95	214.4	225.3	275	262.9	276.2
100	212.1	222.8	280	260.8	274.0
105	208.3	218.8	285	257.4	270.4
110	203.0	213.4	290	252.6	265.4
115	196.4	206.4	295	246.5	259.0
120	188.4	198.0	300	239.1	251.2
125	179.1	188.2	305	230.3	242.0
130	168.5	177.2	310	220.2	231.4
135	156.9	165.0	315	208.8	219.4
140	144.4	151.9	320	196.3	206.3
145	131.3	138.2	325	182.7	192.0
150	118.1	124.3	330	168.2	176.8
155	105.4	111.0	335	153.0	160.9
160	94.1	99.2	340	137.6	144.7
165	85.6	90.3	345	122.3	128.7
170	81.2	85.7	350	108.0	113.7
175	82.0	86.6	355	95.5	100.7

Fields in mV/m @ 1 Kilometer

Figure 11

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 35 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	79.7	84.1	180	81.4	85.9
5	75.2	79.4	185	90.5	95.4
10	75.2	79.4	190	101.9	107.3
15	79.6	83.9	195	114.8	120.8
20	87.3	92.0	200	128.3	135.0
25	97.2	102.4	205	141.9	149.3
30	108.4	114.1	210	155.3	163.2
35	119.9	126.1	215	168.0	176.6
40	131.2	138.0	220	179.9	189.1
45	142.1	149.4	225	190.9	200.6
50	152.1	159.9	230	200.8	211.0
55	161.2	169.5	235	209.6	220.2
60	169.3	177.9	240	217.2	228.2
65	176.1	185.1	245	223.7	235.0
70	181.7	191.0	250	228.9	240.5
75	186.1	195.6	255	232.9	244.7
80	189.2	198.8	260	235.8	247.7
85	191.0	200.7	265	237.4	249.4
90	191.5	201.3	270	237.9	249.9
95	190.7	200.4	275	237.1	249.1
100	188.6	198.2	280	235.2	247.1
105	185.2	194.6	285	232.1	243.8
110	180.5	189.7	290	227.7	239.3
115	174.6	183.5	295	222.2	233.5
120	167.4	176.0	300	215.5	226.4
125	159.1	167.3	305	207.6	218.1
130	149.8	157.5	310	198.5	208.6
135	139.5	146.7	315	188.3	197.9
140	128.5	135.2	320	177.1	186.1
145	117.1	123.2	325	165.0	173.4
150	105.6	111.2	330	152.1	159.9
155	94.7	99.8	335	138.7	145.9
160	85.2	89.8	340	125.1	131.6
165	78.2	82.5	345	111.6	117.5
170	74.8	79.0	350	99.0	104.3
175	75.9	80.1	355	88.0	92.8

Fields in mV/m @ 1 Kilometer

Figure 12

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 40 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	72.8	76.8	180	74.3	78.4
5	68.7	72.6	185	82.1	86.6
10	68.3	72.1	190	92.0	96.9
15	71.5	75.4	195	103.0	108.4
20	77.6	81.8	200	114.6	120.6
25	85.7	90.3	205	126.3	132.9
30	94.9	100.0	210	137.8	144.9
35	104.6	110.1	215	148.9	156.5
40	114.3	120.2	220	159.2	167.4
45	123.5	129.9	225	168.8	177.4
50	132.2	139.0	230	177.5	186.5
55	140.1	147.3	235	185.2	194.6
60	147.0	154.6	240	192.0	201.7
65	153.0	160.8	245	197.7	207.7
70	157.9	166.0	250	202.3	212.5
75	161.7	170.0	255	205.9	216.3
80	164.4	172.8	260	208.4	219.0
85	166.0	174.5	265	209.9	220.5
90	166.4	174.9	270	210.3	220.9
95	165.7	174.2	275	209.6	220.2
100	163.9	172.3	280	207.9	218.4
105	160.9	169.1	285	205.1	215.5
110	156.8	164.8	290	201.3	211.5
115	151.7	159.4	295	196.4	206.3
120	145.4	152.9	300	190.4	200.1
125	138.3	145.4	305	183.5	192.8
130	130.2	136.9	310	175.5	184.4
135	121.4	127.7	315	166.6	175.1
140	112.0	117.8	320	156.8	164.8
145	102.3	107.7	325	146.3	153.8
150	92.7	97.6	330	135.1	142.1
155	83.6	88.1	335	123.5	129.9
160	75.9	80.1	340	111.8	117.6
165	70.4	74.3	345	100.3	105.6
170	68.1	71.8	350	89.5	94.2
175	69.4	73.2	355	80.0	84.4

Fields in mV/m @ 1 Kilometer

Figure 13

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 45 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	65.6	69.2	180	66.9	70.5
5	61.9	65.4	185	73.4	77.4
10	61.2	64.6	190	81.6	86.0
15	63.3	66.8	195	90.8	95.6
20	67.8	71.6	200	100.5	105.7
25	74.2	78.2	205	110.3	116.0
30	81.5	85.8	210	120.0	126.2
35	89.3	94.0	215	129.3	135.9
40	97.2	102.3	220	138.0	145.1
45	104.9	110.3	225	146.2	153.6
50	112.1	117.9	230	153.6	161.4
55	118.7	124.8	235	160.2	168.3
60	124.5	130.9	240	165.9	174.4
65	129.5	136.2	245	170.8	179.5
70	133.7	140.6	250	174.8	183.7
75	136.9	144.0	255	177.9	187.0
80	139.2	146.4	260	180.1	189.3
85	140.6	147.8	265	181.4	190.6
90	141.0	148.2	270	181.7	191.0
95	140.3	147.5	275	181.2	190.4
100	138.8	145.9	280	179.7	188.8
105	136.3	143.2	285	177.3	186.3
110	132.8	139.6	290	174.0	182.8
115	128.4	135.0	295	169.7	178.4
120	123.2	129.5	300	164.6	173.0
125	117.2	123.2	305	158.7	166.7
130	110.4	116.1	310	151.9	159.6
135	103.1	108.5	315	144.3	151.6
140	95.3	100.3	320	136.0	142.9
145	87.4	92.1	325	127.1	133.6
150	79.7	83.9	330	117.7	123.7
155	72.5	76.5	335	108.0	113.6
160	66.6	70.2	340	98.1	103.3
165	62.5	66.0	345	88.5	93.2
170	61.1	64.5	350	79.6	83.8
175	62.6	66.0	355	71.7	75.6

Fields in mV/m @ 1 Kilometer

Figure 14

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 50 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	58.2	61.4	180	59.2	62.5
5	55.0	58.1	185	64.6	68.1
10	54.0	57.0	190	71.2	75.0
15	55.2	58.3	195	78.6	82.7
20	58.3	61.6	200	86.4	90.9
25	62.9	66.4	205	94.3	99.2
30	68.5	72.1	210	102.1	107.4
35	74.5	78.4	215	109.7	115.4
40	80.7	84.9	220	116.9	122.9
45	86.7	91.3	225	123.6	129.9
50	92.5	97.3	230	129.7	136.3
55	97.7	102.8	235	135.1	142.0
60	102.5	107.8	240	139.9	147.0
65	106.5	112.0	245	144.0	151.3
70	109.9	115.6	250	147.3	154.8
75	112.6	118.4	255	149.9	157.5
80	114.5	120.3	260	151.8	159.5
85	115.6	121.5	265	152.8	160.6
90	115.9	121.8	270	153.1	160.9
95	115.4	121.3	275	152.6	160.4
100	114.1	119.9	280	151.4	159.1
105	112.0	117.8	285	149.4	157.0
110	109.2	114.8	290	146.6	154.1
115	105.6	111.1	295	143.1	150.4
120	101.4	106.6	300	138.8	145.9
125	96.5	101.5	305	133.9	140.7
130	91.1	95.9	310	128.3	134.8
135	85.3	89.8	315	122.0	128.3
140	79.2	83.4	320	115.2	121.1
145	73.0	76.9	325	107.9	113.5
150	67.1	70.7	330	100.3	105.5
155	61.7	65.1	335	92.4	97.2
160	57.4	60.6	340	84.5	88.9
165	54.7	57.8	345	76.7	80.8
170	54.0	57.1	350	69.5	73.2
175	55.6	58.7	355	63.2	66.6

Fields in mV/m @ 1 Kilometer

NIGHTTIME VERTICAL FIELDS

KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 55 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	50.7	53.5	180	51.5	54.4
5	48.0	50.7	185	55.7	58.7
10	46.9	49.5	190	60.8	64.1
15	47.4	50.0	195	66.5	70.0
20	49.3	52.0	200	72.5	76.4
25	52.3	55.2	205	78.7	82.8
30	56.2	59.3	210	84.8	89.2
35	60.5	63.8	215	90.7	95.4
40	65.1	68.5	220	96.3	101.3
45	69.6	73.3	225	101.6	106.8
50	73.9	77.8	230	106.4	111.9
55	78.0	82.0	235	110.8	116.4
60	81.6	85.8	240	114.6	120.4
65	84.7	89.1	245	117.8	123.9
70	87.4	91.9	250	120.5	126.7
75	89.4	94.0	255	122.6	128.8
80	90.9	95.6	260	124.1	130.4
85	91.7	96.5	265	124.9	131.3
90	92.0	96.7	270	125.2	131.5
95	91.6	96.3	275	124.8	131.1
100	90.6	95.3	280	123.8	130.1
105	89.0	93.6	285	122.2	128.4
110	86.8	91.3	290	119.9	126.0
115	84.0	88.4	295	117.1	123.1
120	80.8	85.0	300	113.7	119.5
125	77.0	81.1	305	109.8	115.4
130	72.9	76.8	310	105.3	110.7
135	68.5	72.2	315	100.4	105.5
140	64.0	67.4	320	95.0	99.9
145	59.5	62.7	325	89.3	93.9
150	55.2	58.2	330	83.3	87.7
155	51.5	54.4	335	77.2	81.2
160	48.7	51.4	340	71.1	74.8
165	47.1	49.8	345	65.1	68.6
170	47.0	49.7	350	59.5	62.7
175	48.5	51.2	355	54.6	57.6

Fields in mV/m @ 1 Kilometer

Figure 16

NIGHTTIME VERTICAL FIELDS

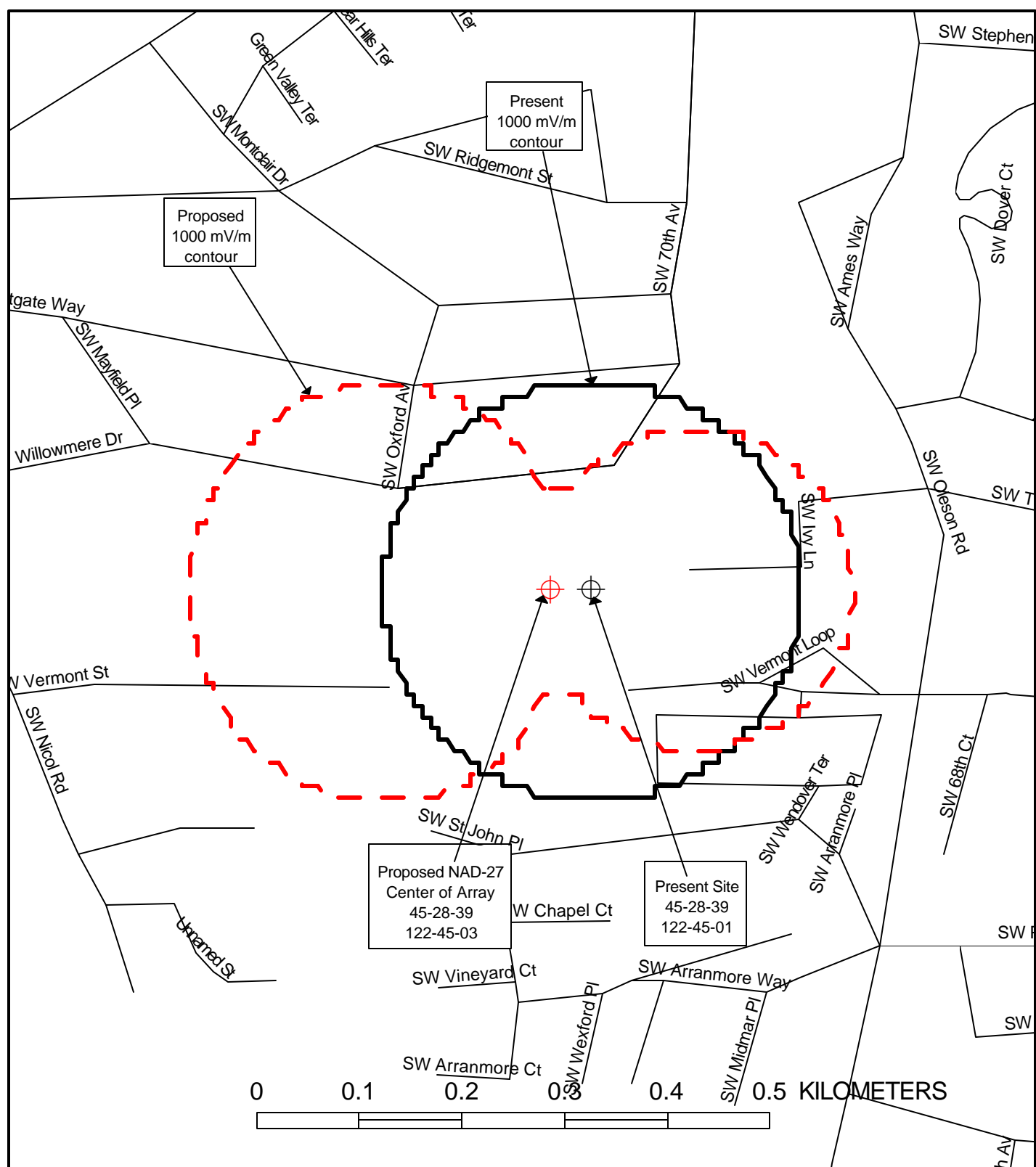
KPDQ - PORTLAND, OREGON
 800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N

VERTICAL ANGLE 60 DEGREES

AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)	AZIMUTH (DEGREES)	E THEO. (mV/m)	E STD. (mV/m)
0	43.2	45.6	180	43.8	46.2
5	41.1	43.4	185	47.0	49.5
10	40.0	42.2	190	50.7	53.4
15	39.9	42.2	195	54.9	57.8
20	40.9	43.1	200	59.3	62.4
25	42.6	45.0	205	63.8	67.2
30	45.1	47.5	210	68.3	71.9
35	47.9	50.5	215	72.7	76.5
40	50.9	53.7	220	76.9	80.9
45	54.1	56.9	225	80.8	85.0
50	57.1	60.1	230	84.5	88.8
55	59.9	63.1	235	87.7	92.2
60	62.5	65.8	240	90.6	95.3
65	64.8	68.2	245	93.1	97.9
70	66.7	70.2	250	95.1	100.0
75	68.2	71.8	255	96.7	101.7
80	69.3	72.9	260	97.8	102.8
85	69.9	73.5	265	98.5	103.5
90	70.1	73.7	270	98.7	103.7
95	69.8	73.4	275	98.4	103.4
100	69.1	72.7	280	97.6	102.6
105	67.9	71.4	285	96.4	101.3
110	66.3	69.8	290	94.7	99.5
115	64.3	67.7	295	92.5	97.3
120	61.9	65.2	300	90.0	94.6
125	59.3	62.4	305	87.0	91.5
130	56.4	59.4	310	83.6	87.9
135	53.3	56.2	315	79.9	84.1
140	50.2	52.9	320	75.9	79.9
145	47.2	49.8	325	71.7	75.4
150	44.4	46.9	330	67.2	70.8
155	42.1	44.5	335	62.7	66.0
160	40.5	42.8	340	58.2	61.3
165	39.8	42.1	345	53.8	56.7
170	40.1	42.4	350	49.8	52.4
175	41.5	43.8	355	46.1	48.7

Fields in mV/m @ 1 Kilometer

FIGURE 17



PRESENT & PROPOSED 1000 MV/M
NIGHTTIME CONTOURS

KPDQ(AM) - PORTLAND, OREGON
800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N
FEBRUARY, 2005

Frequency: 800

Explanation of "CODE" which appears on the right edge of this report:

```

CODE
123456
|||||-- [6] Corresponding expanded band domestic status (if
|||||    this is a lower band station)
|||||--- [5] Not included in RSS Calculation because:
|||||    (1) Deleted Domestically
|||||    (2) Application
|||||    (3) Petition for Expanded Band
|||||    (4) Objected
|||||    (5) B-List or D-List
|||||    (6) Class D station (formally 2S or 3S)
|||||    (7) Cuban Operation
|||||    (8) Multiple Entry
|||||    (9) Test record
|||||---- [4] FCC Dummy Data Code
|||||    (B) Some data assumed; (V) Vertical antenna parameters assumed;
|||||    (1) Vertical and horizontal antenna parameters assumed;
|||||    (2) Coordinates are assumed
|||||---- [3] FCC Bad Record Code
|||||    (B) Some data known to be bad; (V) Bad vertical antenna parameters;
|||||    (1) Bad coordinates; (2) Bad horizontal antenna parameters;
|||||    (3) Bad horizontal and vertical antenna parameters
|||||---- [2] IFRB Notified Status
|||||    (A) Negotiated Priority; (P) Proposed; (T) Informal Proposal
|||||    (O) Operating; (U) Un-notified; (Z) Test Record
|----- [1] Domestic Status
|        (C) Construction Permit; (L) License; (A) Application;
|        (D) Deleted; (M) Petition for Expanded Band;
|        (P) Planned expanded band; (T) Test;
|        (S) Petition for expanded band w/ stereo

```

KPDQPRO 800 kHz PORTLAND, OR US - .6000 kW 243.50 mV/m @ km
N 45-28-39 W 122-45-03
PROPOSED STATION

No.	Field	Phase	Spacing	Orient	Height	Ref Top/SW	A	B	C	D
1	1.0000000	.0000	.0000	.0000	76.10	0 0	.00	.00	.00	.00
2	.6390000	189.9000	85.8000	269.4000	56.50	0 0	.00	.00	.00	.00

Figure 18
Page 2 of 8

SUMMARY OF LIMITS TO KPDQPRO 800 kHz PORTLAND,OR US													.6000 kW 243.50 mV/m @ km		Dom Cl:	Dom Stat:		
N 45-28-39 W 122-45-03													E(Nom):	.0000	Hours:	Mode: DA	Reg2 Cl:	Not stat:
Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456					
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	322.02	2083.3	.00/ 1.84	4519.55	4519.55	.0116811	10.5586		O 4					
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	322.10	2073.3	.00/ 1.90	4433.94	4433.94	.0117890	10.4543	10.454	O					
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	322.03	2082.8	.00/ 1.84	4217.41	4217.41	.0116873	9.8580		P					
50% Exclusion																		
+ KGO	SAN FRANCISCO	CA US	N 37-31-35	W 122-06-02	356.71	885.8	7.23/13.10	4434.03	4348.01	.0513743	4.4675	11.369	LO					
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	209.77	499.6	14.94/24.43	203.93	195.62	.1037564	4.0594	12.072	O					
25% Exclusion																		
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	54.91	99.82	.1394961	2.7849		P					
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	54.91	99.82	.1394961	2.7849		P 8					
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	253.79	1399.2	2.72/ 6.53	702.49	701.06	.0152431	2.1373		O					
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	316.99	6313.3	.00/ .00	7657.64	7657.64	.0012468	1.9094		O 5					
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	317.39	10122.2	.00/ .00	*****	*****	.0008216	1.7157		O 5					
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	145.87	1630.9	1.37/ 4.65	826.32	826.01	.0096993	1.6023		LO					
- KGMI	BELLINGHAM	WA US	N 48-43-09	W 122-26-43	183.78	361.2	20.91/32.67	409.73	374.74	.1612676	1.2087		LO					
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	44.20	39.99	.1394961	1.1157		O 8					
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	314.13	4631.0	.00/ .00	1694.98	1694.98	.0021466	.7277		O 7					
ZYJ-457	RIO DE JANEI	BR	S 22-55-00	W 043-13-00	315.69	11033.3	.00/ .00	4262.80	4262.80	.0007862	.6703		O					
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	318.61	6183.5	.00/ .00	2189.06	2189.06	.0014095	.6171		O 5					
- KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	344.99	1326.4	3.20/ 7.22	1060.98	1057.30	.0271076	.5732		LO					
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	342.78	1523.4	1.96/ 5.48	131.27	131.18	.0215904	.5664		O 4					
- KGHL	BILLINGS	MT US	N 45-43-34	W 108-36-35	273.63	1099.0	4.98/ 9.78	965.15	956.69	.0292068	.5588		LO					
- KJRB	SPOKANE	WA US	N 47-30-08	W 117-23-06	243.24	468.3	16.03/25.97	231.31	221.85	.1160469	.5149		LO					
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	345.43	1170.3	4.37/ 8.90	60.28	62.38	.0331012	.4130		LO 4					

SUMMARY OF LIMITS TO KPDQ			800 kHz		PORTLAND,OR US				.5000 kW		296.12 mV/m @ km		Dom Cl: B		Dom Stat: L	
N 45-28-39 W 122-45-01					E(Nom):		.0000		Hours: N		Mode: ND1		Reg2 Cl: B		Not stat: O	
Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456			
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	322.02	2083.3	.00/ 1.84	4519.55	4519.55	.0116814	10.5589		O 4			
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	322.10	2073.2	.00/ 1.90	4433.94	4433.94	.0117893	10.4546	10.455	O			
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	322.03	2082.8	.00/ 1.84	4217.41	4217.41	.0116876	9.8583		P			
----- 50% Exclusion -----																
+ KGO	SAN FRANCISCO	CA US	N 37-31-35	W 122-06-02	356.71	885.8	7.23/13.10	4433.92	4347.90	.0513745	4.4674	11.369	LO			
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	209.77	499.6	14.94/24.43	203.93	195.62	.1037621	4.0597	12.072	O			
----- 25% Exclusion -----																
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.28	404.8	18.66/29.63	54.91	99.85	.1394965	2.7858		P			
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.28	404.8	18.66/29.63	54.91	99.85	.1394965	2.7858		P 8			
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	253.79	1399.1	2.72/ 6.53	702.48	701.06	.0152439	2.1374		O			
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	316.99	6313.2	.00/ .00	7657.64	7657.64	.0012468	1.9095		O 5			
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	317.39	10122.2	.00/ .00	*****	*****	.0008216	1.7158		O 5			
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	145.87	1630.9	1.37/ 4.65	826.32	826.01	.0096989	1.6023		LO			
- KGMI	BELLINGHAM	WA US	N 48-43-09	W 122-26-43	183.78	361.2	20.91/32.67	409.71	374.72	.1612688	1.2086		LO			
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.28	404.8	18.66/29.63	44.19	39.98	.1394965	1.1155		O 8			
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	314.13	4631.0	.00/ .00	1694.98	1694.98	.0021467	.7277		O 7			
ZYJ-457	RIO DE JANEI	BR	S 22-55-00	W 043-13-00	315.69	11033.3	.00/ .00	4262.80	4262.80	.0007862	.6703		O			
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	318.61	6183.5	.00/ .00	2189.06	2189.06	.0014095	.6171		O 5			
- KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	344.99	1326.4	3.20/ 7.22	1060.96	1057.28	.0271081	.5732		LO			
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	342.78	1523.4	1.96/ 5.48	131.27	131.18	.0215908	.5664		O 4			
- KGHL	BILLINGS	MT US	N 45-43-34	W 108-36-35	273.63	1099.0	4.98/ 9.79	965.16	956.69	.0292088	.5589		LO			
- KJRB	SPOKANE	WA US	N 47-30-08	W 117-23-06	243.24	468.2	16.03/25.98	231.32	221.86	.1160593	.5150		LO			
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	345.43	1170.3	4.37/ 8.90	60.28	62.38	.0331018	.4130		LO 4			

SUMMARY OF LIMITS TO KPDQ 800 kHz PORTLAND,OR US 1.0000 kW 311.00 mV/m @ km Dom Cl: B Dom Stat: C
N 45-28-39 W 122-45-03 E(Nom): .0000 Hours: N Mode: DAN Reg2 Cl: B Not stat: P

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	322.02	2083.3	.00/ 1.84	4519.55	4519.55	.0116811	10.5586		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	322.10	2073.3	.00/ 1.90	4433.94	4433.94	.0117890	10.4543	10.454	O
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	322.03	2082.8	.00/ 1.84	4217.41	4217.41	.0116873	9.8580		P
50% Exclusion													
+ KGO	SAN FRANCISCO	CA US	N 37-31-35	W 122-06-02	356.71	885.8	7.23/13.10	4434.03	4348.01	.0513743	4.4675	11.369	LO
CKOR	PENICTON	BC CA	N 49-25-25	W 119-34-15	209.77	499.6	14.94/24.43	203.93	195.62	.1037564	4.0594	12.072	O
25% Exclusion													
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	54.91	99.82	.1394961	2.7849		P
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	54.91	99.82	.1394961	2.7849		P 8
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	253.79	1399.2	2.72/ 6.53	702.49	701.06	.0152431	2.1373		O
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	316.99	6313.3	.00/ .00	7657.64	7657.64	.0012468	1.9094		O 5
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	317.39	10122.2	.00/ .00	*****	*****	.0008216	1.7157		O 5
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	145.87	1630.9	1.37/ 4.65	826.32	826.01	.0096993	1.6023		LO
- KGMI	BELLINGHAM	WA US	N 48-43-09	W 122-26-43	183.78	361.2	20.91/32.67	409.73	374.74	.1612676	1.2087		LO
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	182.29	404.8	18.66/29.63	44.20	39.99	.1394961	1.1157		O 8
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	314.13	4631.0	.00/ .00	1694.98	1694.98	.0021466	.7277		O 7
ZYJ-457	RIO DE JANEI	BR	S 22-55-00	W 043-13-00	315.69	11033.3	.00/ .00	4262.80	4262.80	.0007862	.6703		O
VYTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	318.61	6183.5	.00/ .00	2189.06	2189.06	.0014095	.6171		O 5
- KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	342.73	1244.3	3.79/ 8.06	1084.47	1079.23	.0305998	6.6049	11.597	LO
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	342.78	1523.4	1.96/ 5.48	131.27	131.18	.0215904	.5664		O 4
- KGHL	BILLINGS	MT US	N 45-43-34	W 108-36-35	273.63	1099.0	4.98/ 9.78	965.15	956.69	.0292068	.5588		LO

SUMMARY OF LIMITS TO KWIL 790 kHz ALBANY,OR US 1.0000 kW 329.92 mV/m @ km Dom Cl: B Dom Stat: L
N 44-37-54 W 123-00-57 E(Nom): .0000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
KGMI	BELLINGHAM	WA US	N 48-43-09	W 122-26-43	185.68	456.6	16.46/26.59	416.14	393.39	.1211510	9.5320	9.532	LO
KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	342.73	1244.3	3.79/ 8.06	1084.47	1079.23	.0305998	6.6049	11.597	LO
KGHL	BILLINGS	MT US	N 45-43-34	W 108-36-35	269.00	1134.1	4.68/ 9.34	1092.27	1083.50	.0281963	6.1101	13.108	LO
50% Exclusion													
- KKOH	RENO	NV US	N 39-40-41	W 119-48-06	335.38	611.1	11.87/19.97	2803.63	2708.58	.0884958	4.7940	13.957	LO
KJRB	SPOKANE	WA US	N 47-30-08	W 117-23-06	235.75	538.8	13.74/22.70	250.62	246.60	.0965144	4.7601	14.746	LO
25% Exclusion													
KWSW	EUREKA	CA US	N 40-48-09	W 124-08-20	11.78	435.5	17.30/27.76	97.14	91.24	.1389014	2.5347		LO 6
KOOR	CLOVIS	CA US	N 36-50-39	W 119-41-13	343.12	910.0	6.94/12.66	241.93	237.43	.0497915	2.3644		LO
KBET	WINCHESTER	NV US	N 36-05-27	W 115-00-59	327.02	1165.5	4.41/ 8.96	348.30	345.73	.0330304	2.2839		CP
NEW	WINCHESTER	NV US	N 36-05-27	W 115-00-59	327.02	1165.5	4.41/ 8.96	318.77	316.32	.0330304	2.0896		AP 2
KSPD	BOISE	ID US	N 43-33-57	W 116-20-13	284.84	546.2	13.53/22.39	73.14	70.50	.0992070	1.3988		P 6
+ XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	319.61	2038.1	.00/ 2.09	4519.55	4519.55	.0124028	1.1211		O 4
+ XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	319.68	2027.8	.00/ 2.14	4433.94	4433.94	.0125212	1.1104		O
CMBB	GUANABACOA	CU	N 23-07-00	W 082-16-00	313.09	4391.9	.00/ .00	2188.21	2188.21	.0025102	1.0986		O 7
+ XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	319.63	2037.6	.00/ 2.09	4217.41	4217.41	.0124098	1.0467		P
+ KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	192.60	96.3	55.98/67.82	209.39	104.71	.4101532	.8590		LO
OAX2I	CRU	PE	S 8-07-00	W 079-03-00	327.24	7330.9	.00/ .00	2188.21	2188.21	.0017512	.7664		O
+ KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	192.57	96.3	55.99/67.82	253.08	92.61	.4101637	.7597		CP
NEW	ORCHARD CITY	CO US	N 38-45-38	W 108-05-28	302.62	1397.6	2.73/ 6.55	142.46	142.07	.0223037	.6338		AP 2
CFCW	CAMROSE	AB CA	N 52-57-37	W 112-57-29	222.40	1181.1	4.29/ 8.77	143.74	143.35	.0216518	.6208		O
KKON	KEALAKEKUA	HI US	N 19-31-10	W 155-55-08	39.89	4122.1	.00/ .00	665.74	665.74	.0045659	.6079		LO
+ KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	192.57	96.3	55.99/67.82	159.54	64.82	.4101637	.5317		

SUMMARY OF LIMITS TO KJRB 790 kHz SPOKANE,WA US 3.8000 kW 673.37 mV/m @ km Dom Cl: B Dom Stat: L
N 47-30-08 W 117-23-06 E(Nom): .0000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
KGHL	BILLINGS	MT US	N 45-43-34	W 108-36-35	289.58	698.3	10.07/17.31	465.67	446.04	.0604596	5.3935	5.393	LO
KGMI	BELLINGHAM	WA US	N 48-43-09	W 122-26-43	107.91	399.2	18.92/30.00	97.63	134.90	.1366724	3.6875	6.534	LO
50% Exclusion													
KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	2.86	1500.5	2.10/ 5.66	784.94	783.60	.0208121	3.2617	7.302	LO
KWIL	ALBANY	OR US	N 44-37-54	W 123-00-57	51.69	538.8	13.74/22.70	120.97	98.76	.0965138	1.9064	7.547	LO
25% Exclusion													
CFCW	CAMROSE	AB CA	N 52-57-37	W 112-57-29	209.15	683.4	10.35/17.73	169.46	175.63	.0529230	1.8590		O
KSPD	BOISE	ID US	N 43-33-57	W 116-20-13	349.81	445.2	16.91/27.21	73.14	69.05	.1254932	1.7331		P 6
NEW	WINCHESTER	NV US	N 36-05-27	W 115-00-59	351.98	1283.8	3.50/ 7.65	289.57	288.13	.0263244	1.5170		AP 2
KBET	WINCHESTER	NV US	N 36-05-27	W 115-00-59	351.98	1283.8	3.50/ 7.65	270.15	268.83	.0263244	1.4154		CP
CMBB	GUANABACOA	CU	N 23-07-00	W 082-16-00	319.88	4124.3	.00/ .00	2188.21	2188.21	.0026769	1.1715		O 7
+ XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	335.18	1990.2	.00/ 2.35	4519.55	4519.55	.0121222	1.0957		O 4
+ XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	335.33	1981.5	.00/ 2.40	4433.94	4433.94	.0122220	1.0838		O
+ XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	335.20	1989.8	.00/ 2.36	4217.41	4217.41	.0121271	1.0229		P
- KKOH	RENO	NV US	N 39-40-41	W 119-48-06	11.79	891.4	7.16/12.99	1005.64	1003.98	.0472139	.9480		LO
KWSW	EUREKA	CA US	N 40-48-09	W 124-08-20	33.57	918.6	6.83/12.51	97.14	96.20	.0446166	.8584		LO 6
- NEW	DRAPER	UT US	N 40-19-46	W 112-04-11	333.72	903.6	7.01/12.77	932.76	926.03	.0444945	.8241		AP 2
+ KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	59.35	468.3	16.03/25.97	367.34	336.30	.1160463	.7805		CP
+ CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	142.15	267.6	27.67/41.16	203.93	176.45	.2125242	.7500		O
OAX2I	CRU	PE S	8-07-00	W 079-03-00	332.49	7242.5	.00/ .00	2188.21	2188.21	.0016940	.7414		O
+ CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	113.24	421.5	17.90/28.60	185.04	290.30	.1265007	.7345		P 8
+ CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	113.24	421.5	17.90/28.60	185.04	290.30	.1265007	.7345		P
KBRV	SODA SPRINGS	ID US	N 42-38-30	W 111-36-40	322.02	705.1	9.95/17.13	52.62	51.44	.0640631	.6591		PP 6
KBME	HOUSTON	TX US	N 29-54-54	W 095-27-42	322.31	2709.6	.00/ .00	461.10	461.10	.0062666	.5779		LO
+ KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	59.35	468.3	16.03/25.97	271.06	248.78	.1160463	.5774		

SUMMARY OF LIMITS TO KDFO 800 kHz BAKERSFIELD,CA US .4400 kW 187.50 mV/m @ km Dom Cl: B Dom Stat: L
N 35-20-44 W 118-59-33 E(Nom): .0000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	292.57	1236.8	3.85/ 8.14	4519.55	4495.12	.0333579	29.9896		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	292.48	1225.5	3.94/ 8.27	4433.94	4407.26	.0338498	29.8370	29.837	O
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	292.58	1236.0	3.86/ 8.15	4217.41	4193.13	.0333915	28.0030		P
50% Exclusion													
+ KGO	SAN FRANCISCO	CA US	N 37-31-35	W 122-06-02	130.16	368.9	20.48/32.10	3169.61	2611.06	.1734675	9.0587	31.182	LO
25% Exclusion													
- KABC	LOS ANGELES	CA US	N 34-01-41	W 118-22-22	339.03	157.1	42.14/56.32	1116.59	633.43	.3378984	4.2807		LO
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	330.44	364.0	20.75/32.46	131.27	121.15	.1751976	4.2449		O 4
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	305.92	5695.5	.00/ .00	7657.64	7657.64	.0022214	3.4021		O 5
ZYH-705	BRASILIA	BR S	15-48-00	W 047-53-00	309.16	9391.2	.00/ .00	*****	*****	.0012586	2.6283		O 5
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	162.98	1170.3	4.37/ 8.90	209.39	208.58	.0331007	1.3809		LO
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	299.66	4037.0	.00/ .00	1694.98	1694.98	.0038327	1.2993		O 7
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	307.86	5496.1	.00/ .00	2189.06	2189.06	.0025588	1.1203		O 5
ZYJ-457	RIO DE JANEI	BR S	22-55-00	W 043-13-00	307.69	10266.7	.00/ .00	4262.80	4262.80	.0011501	.9805		O
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	162.98	1170.3	4.37/ 8.90	121.28	120.61	.0331001	.7984		
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	162.98	1170.3	4.37/ 8.90	114.35	113.79	.0331001	.7533		CP
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	178.06	1566.1	1.72/ 5.14	203.93	203.82	.0182041	.7421		O
XEGX	SAN LUIS DE LA	GT MX	N 21-13-33	W 100-29-35	315.04	2389.3	.00/ .32	292.58	292.58	.0122999	.7197		O
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	149.23	2794.7	.00/ .00	826.32	826.32	.0041970	.6936		LO
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	218.43	1998.6	.00/ 2.31	307.63	307.99	.0102429	.6309		O
HCML2	GUAYAQUIL	EC S	2-05-00	W 079-56-12	319.47	5812.1	.00/ .00	978.69	978.69	.0030895	.6047		O

SUMMARY OF LIMITS TO KINY 800 kHz JUNEAU,AK US 7.8000 kW 295.87 mV/m @ km Dom Cl: B Dom Stat: L
N 58-18-05 W 134-26-26 E(Nom): .0000 Hours: N Mode: ND1 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	332.77	3635.8	.00/ .00	4519.55	4519.55	.0021219	1.9180		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	332.81	3626.8	.00/ .00	4433.94	4433.94	.0021349	1.8932	1.893	O
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	332.77	3635.4	.00/ .00	4217.41	4217.41	.0021228	1.7905		P
----- 50% Exclusion -----													
ZYH-705	BRASILIA	BR S	15-48-00	W 047-53-00	327.62	11298.9	.00/ .00	*****	*****	.0003415	.7132		O 5
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	328.60	7482.6	.00/ .00	7657.64	7657.64	.0003737	.5724		O 5
+ KGO	SAN FRANCISCO	CA US	N 37-31-35	W 122-06-02	342.77	2477.2	.00/ .00	4769.97	4769.97	.0052903	.5047	1.959	LO
----- 25% Exclusion -----													
- KCAM	GLENNALLEN	AK US	N 62-06-52	W 145-32-07	119.76	743.8	9.27/16.13	676.54	664.17	.0363973	.4835		LO
+ NEW	KNIK-FAIRVIEW	AK US	N 61-29-03	W 149-45-52	105.73	922.3	6.79/12.44	989.70	1011.82	.0236382	.4784		AP 2
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	306.50	2057.5	.00/ 1.98	667.18	667.18	.0034702	.4631		O
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	321.20	1381.7	2.83/ 6.69	203.93	203.63	.0109611	.4464		O
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	335.13	1630.9	1.37/ 4.65	209.39	209.31	.0097003	.4061		LO
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	335.14	1630.9	1.37/ 4.65	208.82	208.71	.0097006	.4049		
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	335.14	1630.9	1.37/ 4.65	206.59	206.48	.0097006	.4006		CP
ZYJ-457	RIO DE JANEI	BR S	22-55-00	W 043-13-00	326.02	12228.9	.00/ .00	4262.80	4262.80	.0003620	.3087		O
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	327.21	1283.1	3.51/ 7.65	101.19	106.58	.0138062	.2943		O 8
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	327.21	1283.1	3.51/ 7.65	105.11	104.34	.0138062	.2881		P
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	327.21	1283.1	3.51/ 7.65	105.11	104.34	.0138062	.2881		P 8
- CFCW	CAMROSE	AB CA	N 52-57-37	W 112-57-29	302.42	1465.2	2.31/ 5.95	1492.32	1488.56	.0083198	.2477		O
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	329.45	7429.3	.00/ .00	2189.06	2189.06	.0004570	.2001		O 5

SUMMARY OF LIMITS TO CKST 800 kHz LANGLEY,BC CA 10.0000 kW 885.14 mV/m @ km Dom Cl: B Dom Stat:
N 49-06-56 W 122-32-38 E(Nom): 2.5000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	270.12	1237.5	6.01/ 6.01	770.97	763.57	.0430923	6.5808	6.581	O
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	137.58	1283.1	5.60/ 5.60	826.32	821.17	.0397066	6.5212	9.265	LO
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	262.11	218.4	40.76/40.76	203.93	147.49	.2170641	6.4030	11.262	O
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	329.79	2361.1	.00/ .00	4519.55	4519.55	.0066351	5.9975		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	329.88	2351.8	.00/ .00	4433.94	4433.94	.0066915	5.9340	12.730	O
----- 50% Exclusion -----													
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	329.80	2360.7	.00/ .00	4217.41	4217.41	.0066377	5.5988		P
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	2.13	404.8	24.41/24.41	209.39	185.49	.1423188	5.2797		LO
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	120.32	101.34	.1423185	2.8846		CP
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	108.86	94.68	.1423185	2.6948		
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	321.13	6431.4	.00/ .00	7657.64	7657.64	.0007073	1.0833		O 5
CJAD	MONTREAL	QC CA	N 45-14-50	W 073-31-25	294.72	3664.4	.00/ .00	1674.01	1674.01	.0022688	.7596		O
ZYH-705	BRASILIA	BR S	15-48-00	W 047-53-00	320.82	10257.6	.00/ .00	*****	*****	.0003135	.6546		O 5
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	290.68	2161.5	.19/ .19	293.04	293.04	.0083878	.4916		LO
CHRC	QUEBEC	QC CA	N 46-38-34	W 071-14-45	293.44	3761.9	.00/ .00	1110.26	1110.26	.0021390	.4750		O
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	319.26	4760.7	.00/ .00	1694.98	1694.98	.0012980	.4400		O 7
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	298.18	3136.9	.00/ .00	677.37	677.37	.0032369	.4385		O
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	279.39	2135.0	.31/ .31	246.81	246.81	.0086743	.4282		O
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	293.76	2584.0	.00/ .00	329.06	329.06	.0051931	.3418		LO
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	347.62	1902.5	1.46/ 1.46	131.27	131.22	.0122221	.3208		O 4
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	322.70	6329.3	.00/ .00	2189.06	2189.06	.0007295	.3194		O 5
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	350.36	1558.4	3.49/ 3.49	63.95	64.34	.0235356	.3028		LO 4

Figure 18
Page 6 of 8

SUMMARY OF LIMITS TO CKST 800 kHz LANGLEY, BC CA 25.0000 kW 1399.00 mV/m @ km Dom Cl: B Dom Stat:
N 49-06-56 W 122-32-38 E(Nom): 2.5000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: P

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	270.12	1237.5	6.01/ 6.01	770.97	763.57	.0430923	6.5808	6.581	O
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	137.58	1283.1	5.60/ 5.60	826.32	821.17	.0397066	6.5212	9.265	LO
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	262.11	218.4	40.76/40.76	203.93	147.49	.2170641	6.4030	11.262	O
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	329.79	2361.1	.00/ .00	4519.55	4519.55	.0066351	5.9975		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	329.88	2351.8	.00/ .00	4433.94	4433.94	.0066915	5.9340	12.730	O
50% Exclusion													
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	329.80	2360.7	.00/ .00	4217.41	4217.41	.0066377	5.5988		P
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	2.13	404.8	24.41/24.41	209.39	185.49	.1423188	5.2797		LO
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	120.32	101.34	.1423185	2.8846		CP
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	108.86	94.68	.1423185	2.6948		
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	321.13	6431.4	.00/ .00	7657.64	7657.64	.0007073	1.0833		O 5
CJAD	MONTREAL	QC CA	N 45-14-50	W 073-31-25	294.72	3664.4	.00/ .00	1674.01	1674.01	.0022688	.7596		O
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	320.82	10257.6	.00/ .00	*****	*****	.0003135	.6546		O 5
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	290.68	2161.5	.19/ .19	293.04	293.04	.0083878	.4916		LO
CHRC	QUEBEC	QC CA	N 46-38-34	W 071-14-45	293.44	3761.9	.00/ .00	1110.26	1110.26	.0021390	.4750		O
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	319.26	4760.7	.00/ .00	1694.98	1694.98	.0012980	.4400		O 7
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	298.18	3136.9	.00/ .00	677.37	677.37	.0032369	.4385		O
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	279.39	2135.0	.31/ .31	246.81	246.81	.0086743	.4282		O
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	293.76	2584.0	.00/ .00	329.06	329.06	.0051931	.3418		LO
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	347.62	1902.5	1.46/ 1.46	131.27	131.22	.0122221	.3208		O 4
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	322.70	6329.3	.00/ .00	2189.06	2189.06	.0007295	.3194		O 5
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	350.36	1558.4	3.49/ 3.49	63.95	64.34	.0235356	.3028		LO 4

SUMMARY OF LIMITS TO CHAB 800 kHz MOOSE JAW, SK CA 10.0000 kW 885.14 mV/m @ km Dom Cl: B Dom Stat:
N 50-22-38 W 105-23-35 E(Nom): 2.5000 Hours: N Mode: DAN Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	1.96	2079.1	.58/ .58	4519.55	4519.01	.0093317	8.4340		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	2.18	2074.6	.60/ .60	4433.94	4433.33	.0093892	8.3250	8.325	O
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	1.98	2079.1	.58/ .58	4217.41	4216.87	.0093318	7.8702		P
50% Exclusion													
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	306.46	989.9	8.72/ 8.72	296.09	291.64	.0651632	3.8009		LO
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	278.84	897.6	10.02/10.02	246.81	241.73	.0753510	3.6430		O
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	78.63	1019.4	8.34/ 8.34	203.93	201.31	.0621469	2.5022		O
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	76.99	1237.5	6.01/ 6.01	298.60	288.94	.0430923	2.4902		P
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	76.99	1237.5	6.01/ 6.01	298.60	288.94	.0430923	2.4902		P 8
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	60.85	1399.2	4.64/ 4.64	370.65	367.95	.0319663	2.3524		CP
CJAD	MONTREAL	QC CA	N 45-14-50	W 073-31-25	295.09	2427.1	.00/ .00	1703.19	1703.19	.0062005	2.1121		O
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	304.42	1396.5	4.66/ 4.66	329.40	327.59	.0321274	2.1049		LO
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	60.85	1399.2	4.64/ 4.64	274.56	272.61	.0319663	1.7429		
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	102.67	2057.5	.68/ .68	826.32	826.24	.0096109	1.5882		LO
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	306.06	1944.6	1.24/ 1.24	681.48	679.90	.0113874	1.5485		O
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	329.24	5425.9	.00/ .00	7657.64	7657.64	.0009903	1.5167		O 5
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	60.85	1399.1	4.64/ 4.64	209.39	208.48	.0319685	1.3330		LO
CBQ	THUNDER BAY	ON CA	N 48-18-38	W 089-21-30	287.22	1181.7	6.54/ 6.54	139.40	137.97	.0474091	1.3082		O
KQCV	OKLAHOMA CITY	OK US	N 35-24-45	W 097-40-26	341.87	1776.5	2.15/ 2.15	371.06	370.62	.0152007	1.1267		LO
CHRC	QUEBEC	QC CA	N 46-38-34	W 071-14-45	292.06	2526.5	.00/ .00	1007.15	1007.15	.0055230	1.1125		O
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	76.99	1237.5	6.01/ 6.01	131.39	127.14	.0430923	1.0957		O 8
KQAD	LUVERNE	MN US	N 43-39-01	W 096-10-19	320.24	1022.3	8.31/ 8.31	81.82	80.55	.0618530	.9965		LO 6

Figure 18
Page 7 of 8

SUMMARY OF LIMITS TO CKST 800 kHz LANGLEY,BC CA 25.0000 kW 1399.00 mV/m @ km Dom Cl: B Dom Stat:
N 49-06-56 W 122-32-38 E(Nom): 2.5000 Hours: N Mode: DA2 Reg2 Cl: B Not stat: P

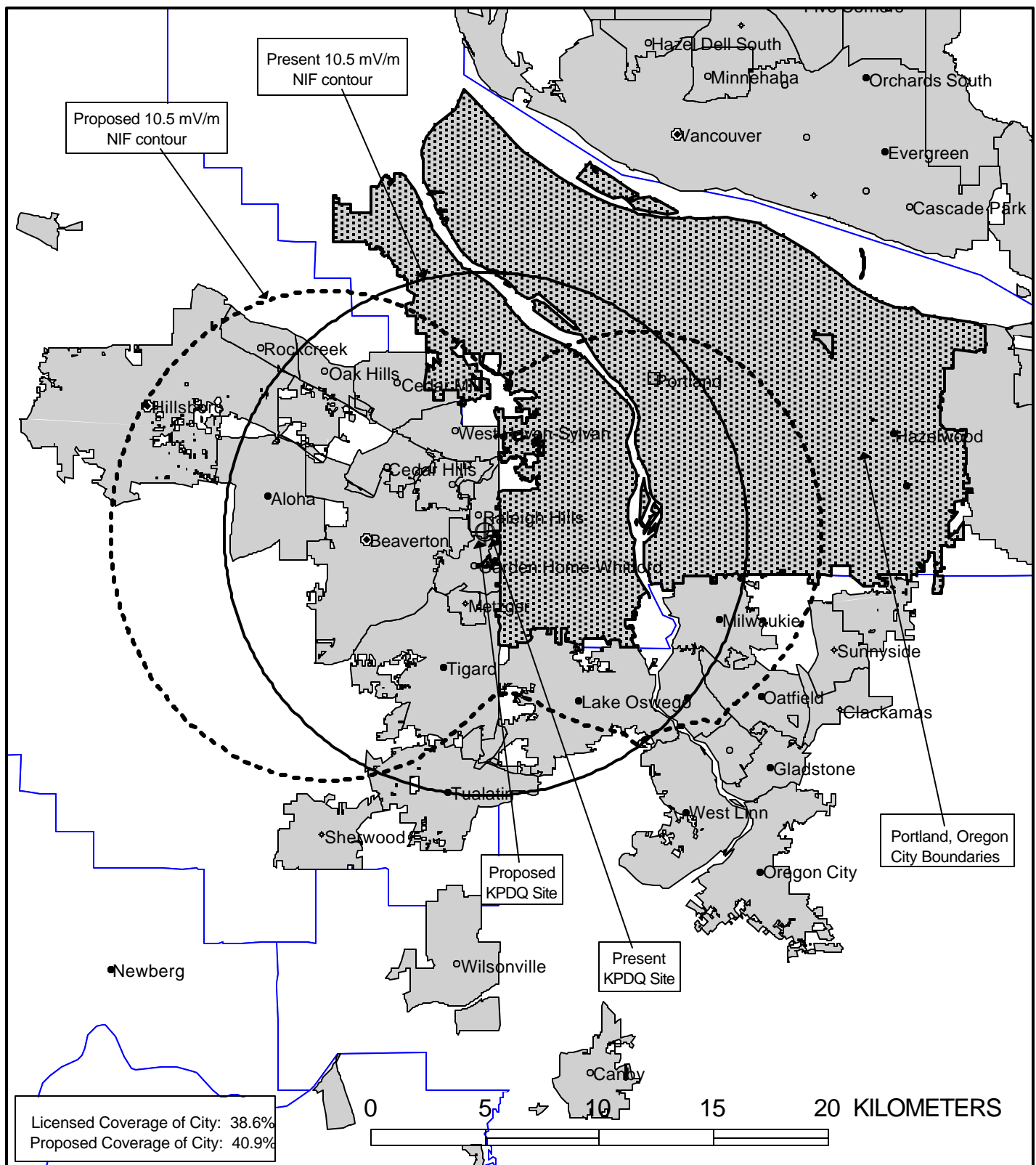
Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg) (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	270.12	1237.5	6.01/ 6.01	770.97	763.57	.0430923	6.5808	6.581	O
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	137.58	1283.1	5.60/ 5.60	826.32	821.17	.0397066	6.5212	9.265	LO
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	262.11	218.4	40.76/40.76	203.93	147.49	.2170641	6.4030	11.262	O
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	329.79	2361.1	.00/ .00	4519.55	4519.55	.0066351	5.9975		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	329.88	2351.8	.00/ .00	4433.94	4433.94	.0066915	5.9340	12.730	O
50% Exclusion													
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	329.80	2360.7	.00/ .00	4217.41	4217.41	.0066377	5.5988		P
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	2.13	404.8	24.41/24.41	209.39	185.49	.1423188	5.2797		LO
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	120.32	101.34	.1423185	2.8846		CP
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	2.13	404.8	24.41/24.41	108.86	94.68	.1423185	2.6948		
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	321.13	6431.4	.00/ .00	7657.64	7657.64	.0007073	1.0833		O 5
CJAD	MONTREAL	QC CA	N 45-14-50	W 073-31-25	294.72	3664.4	.00/ .00	1674.01	1674.01	.0022688	.7596		O
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	320.82	10257.6	.00/ .00	*****	*****	.0003135	.6546		O 5
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	290.68	2161.5	.19/ .19	293.04	293.04	.0083878	.4916		LO
CHRC	QUEBEC	QC CA	N 46-38-34	W 071-14-45	293.44	3761.9	.00/ .00	1110.26	1110.26	.0021390	.4750		O
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	319.26	4760.7	.00/ .00	1694.98	1694.98	.0012980	.4400		O 7
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	298.18	3136.9	.00/ .00	677.37	677.37	.0032369	.4385		O
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	279.39	2135.0	.31/ .31	246.81	246.81	.0086743	.4282		O
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	293.76	2584.0	.00/ .00	329.06	329.06	.0051931	.3418		LO
XEMMM	TIJUANA	BN MX	N 32-30-48	W 117-00-47	347.62	1902.5	1.46/ 1.46	131.27	131.22	.0122221	.3208		O 4
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	322.70	6329.3	.00/ .00	2189.06	2189.06	.0007295	.3194		O 5
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	350.36	1558.4	3.49/ 3.49	63.95	64.34	.0235356	.3028		LO 4

SUMMARY OF LIMITS TO CKOR 800 kHz PENTICTON,BC CA .5000 kW 288.40 mV/m @ km Dom Cl: B Dom Stat:
N 49-25-25 W 119-34-15 E(Nom): 2.5000 Hours: N Mode: ND1 Reg2 Cl: B Not stat: O

Call	City	St Co	Latitude (D-M-S)	Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg) (Deg)	E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	269.50	1019.4	8.34/ 8.34	770.67	756.43	.0621469	9.4020	9.402	O
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	334.66	2257.1	.00/ .00	4519.55	4519.55	.0074172	6.7045		O 4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	334.78	2248.4	.00/ .00	4433.94	4433.94	.0075020	6.6527	11.518	O
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	334.68	2256.7	.00/ .00	4217.41	4217.41	.0074208	6.2593		P
50% Exclusion													
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	129.13	1381.7	4.78/ 4.78	826.32	822.57	.0330355	5.4348		LO
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	27.43	499.6	19.85/19.85	242.60	210.99	.1248006	5.2662		CP
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	27.42	499.6	19.85/19.85	209.39	193.32	.1248036	4.8254		LO
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	79.85	218.4	40.76/40.76	206.28	85.37	.2170641	3.7062		P
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	79.85	218.4	40.76/40.76	206.28	85.37	.2170641	3.7062		P 8
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	27.43	499.6	19.85/19.85	162.40	142.75	.1248006	3.5630		
CKST	LANGLEY	BC CA	N 49-06-56	W 122-32-38	79.85	218.4	40.76/40.76	98.10	80.85	.2170641	3.5101		O 8
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	322.33	6243.9	.00/ .00	7657.64	7657.64	.0007490	1.1471		O 5
CJAD	MONTREAL	QC CA	N 45-14-50	W 073-31-25	294.58	3446.1	.00/ .00	1662.95	1662.95	.0026050	.8664		O
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	321.86	10072.2	.00/ .00	*****	*****	.0003225	.6735		O 5
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	291.78	1946.6	1.23/ 1.23	292.48	292.39	.0113492	.6637		LO
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	279.01	1917.0	1.38/ 1.38	246.81	246.72	.0119282	.5886		O
CHRC	QUEBEC	QC CA	N 46-38-34	W 071-14-45	293.08	3544.6	.00/ .00	1082.54	1082.54	.0024475	.5299		O
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	298.91	2921.7	.00/ .00	681.74	681.74	.0038274	.5219		O
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	320.88	4578.8	.00/ .00	1694.98	1694.98	.0014093	.4777		O 7
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	294.62	2368.7	.00/ .00	329.24	329.24	.0065899	.4339		LO
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	358.45	1566.1	3.44/ 3.44	77.72	78.23	.0231479	.3622		LO 4
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	324.06	6150.4	.00/ .00	2189.06	2189.06	.0007713	.3377		O 5

SUMMARY OF LIMITS TO XEMMM			800 kHz		TIJUANA,BN MX				.2500 kW		262.54 mV/m @ km		Dom Cl: B		Dom Stat:	
N 32-30-48 W 117-00-47					E(Nom): 2.5000		Hours: N		Mode: ND1		Reg2 Cl: B		Not stat: O			
Call	City	St Co	Latitude (D-M-S)		Longitude (D-M-S)	Az (Deg)	Dist (km)	Min/Max (Deg)(Deg)		E(Hor) (mV/m)	E(Vert) (mV/m)	E(Sky) (mV/m)	Limit (mV/m)	RSS (mV/m)	Code 123456	
XEROK	CD.JUAREZ	CH MX	N 31-41-39	W 106-22-40	278.01	1005.5	8.52/	8.52	4519.55	4401.27	.0632579	55.6830			O	4
XEROK	CD JUAREZ	CI MX	N 31-44-16	W 106-29-08	277.76	994.7	8.66/	8.66	4433.94	4306.46	.0643570	55.4302	55.430		O	
XEROK	CD.JUAREZ	CH MX	N 31-41-40	W 106-23-11	278.01	1004.7	8.53/	8.53	4217.41	4100.03	.0633406	51.9396			P	
50% Exclusion																
PJB3	TRANSWORLD R	NA	N 12-06-00	W 068-17-00	302.83	5444.5	.00/	.00	7657.64	7657.64	.0009788	1.4991			O	5
KDFO	BAKERSFIELD	CA US	N 35-20-44	W 118-59-33	149.33	364.0	26.93/26.93		100.64	35.63	.1516005	1.0802			LO	4
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-01	159.15	1523.4	3.73/	3.73	209.39	208.80	.0250918	1.0478			LO	
ZYH-705	BRASILIA	BR	S 15-48-00	W 047-53-00	307.24	9095.2	.00/	.00	*****	*****	.0003783	.7901			O	5
CMEB	SANTA CLARA	CU	N 22-27-00	W 079-53-00	295.25	3808.1	.00/	.00	1694.98	1694.98	.0020723	.7025			O	7
KPDQPRO	PORTLAND	OR US	N 45-28-39	W 122-45-03	159.15	1523.4	3.73/	3.73	133.29	132.73	.0250911	.6661				
KPDQ	PORTLAND	OR US	N 45-28-39	W 122-45-03	159.15	1523.4	3.73/	3.73	117.98	117.52	.0250911	.5897			CP	
XEGX	SAN LUIS DE LA	GT MX	N 21-13-33	W 100-29-35	310.99	2059.4	.67/	.67	292.58	292.55	.0095410	.5582			O	
KINY	JUNEAU	AK US	N 58-18-05	W 134-26-26	147.87	3152.3	.00/	.00	826.32	826.32	.0031836	.5261			LO	
CKOR	PENTICTON	BC CA	N 49-25-25	W 119-34-15	172.61	1892.3	1.51/	1.51	203.93	203.84	.0123783	.5046			O	
YVTB	MARACAIBO 5	VE	N 10-40-00	W 071-40-00	304.90	5226.9	.00/	.00	2189.06	2189.06	.0010638	.4658			O	5
WVAL	SAUK RAPIDS	MN US	N 45-36-18	W 094-08-21	241.34	2438.9	.00/	.00	372.24	372.24	.0060842	.4530			LO	
CHAB	MOOSE JAW	SK CA	N 50-22-38	W 105-23-35	210.06	2203.8	.00/	.00	277.83	277.83	.0079120	.4396			O	
CKLW	WINDSOR	ON CA	N 42-03-25	W 083-00-10	261.66	3165.9	.00/	.00	630.80	630.80	.0031505	.3975			O	
NEW	MOUNT PLEASANT	TX US	N 33-07-24	W 094-57-44	274.17	2057.9	.68/	.68	148.45	148.44	.0095604	.2838			AP	2
ZYJ-457	RIO DE JANEI	BR	S 22-55-00	W 043-13-00	305.92	9960.1	.00/	.00	4262.80	4262.80	.0003267	.2785			O	
WDUX	WAUPACA	WI US	N 44-21-15	W 089-03-29	250.96	2748.7	.00/	.00	286.30	286.30	.0044251	.2534			LO	
KQAD	LUVERNE	MN US	N 43-39-01	W 096-10-19	242.67	2194.8	.04/	.04	140.15	140.15	.0080041	.2243			LO	6
CKDR	DRYDEN	ON CA	N 49-48-32	W 092-49-34	235.13	2769.3	.00/	.00	246.81	246.81	.0043483	.2146			O	
KQCV	OKLAHOMA CITY	OK US	N 35-24-45	W 097-40-26	265.29	1809.4	1.96/	1.96	73.85	73.60	.0142824	.2102			LO	
XEAN	OCOTLAN	JA MX	N 20-21-54	W 102-50-02	316.72	1950.1	1.21/	1.21	90.02	89.99	.0112306	.2021			O	
HJBW	BUCARAMANGA	CO	N 7-04-00	W 073-07-00	308.11	5337.1	.00/	.00	978.60	978.60	.0010193	.1995			O	5
HCML2	GUAYAQUIL	EC	S 2-05-00	W 079-56-12	317.85	5476.0	.00/	.00	978.69	978.69	.0009674	.1894			O	
HOL 60	RAD EXIT CEN	PM	N 8-58-00	W 079-31-00	309.73	4656.0	.00/	.00	692.00	692.00	.0013538	.1874			O	5
XEUI2	COMITAN	CS MX	N 16-11-21	W 092-05-56	310.46	3094.7	.00/	.00	273.33	273.33	.0033280	.1819			P	
TIW	S JOSE 4	CS	N 9-56-00	W 084-04-00	311.61	4207.2	.00/	.00	536.00	536.00	.0016724	.1793			O	5
NEW	GLASGOW	KY US	N 37-00-17	W 085-56-27	269.28	2869.0	.00/	.00	216.99	216.99	.0039844	.1729			AP	2
TGYH	ROSA	GT	N 14-05-00	W 090-23-00	311.80	3387.5	.00/	.00	309.50	309.50	.0026932	.1667			O	5
KLDC	BRIGHTON	CO US	N 40-01-42	W 104-49-22	236.34	1373.5	4.84/	4.84	24.91	24.79	.0333937	.1656			LO	6
	MANAUS	BR	S 3-06-00	W 060-02-00	308.46	7177.2	.00/	.00	1420.51	1420.51	.0005726	.1627			P	
	RIO BRANCO	BR	S 9-58-00	W 067-49-00	314.39	7035.9	.00/	.00	1351.33	1351.33	.0005940	.1605			P	

FIGURE 19

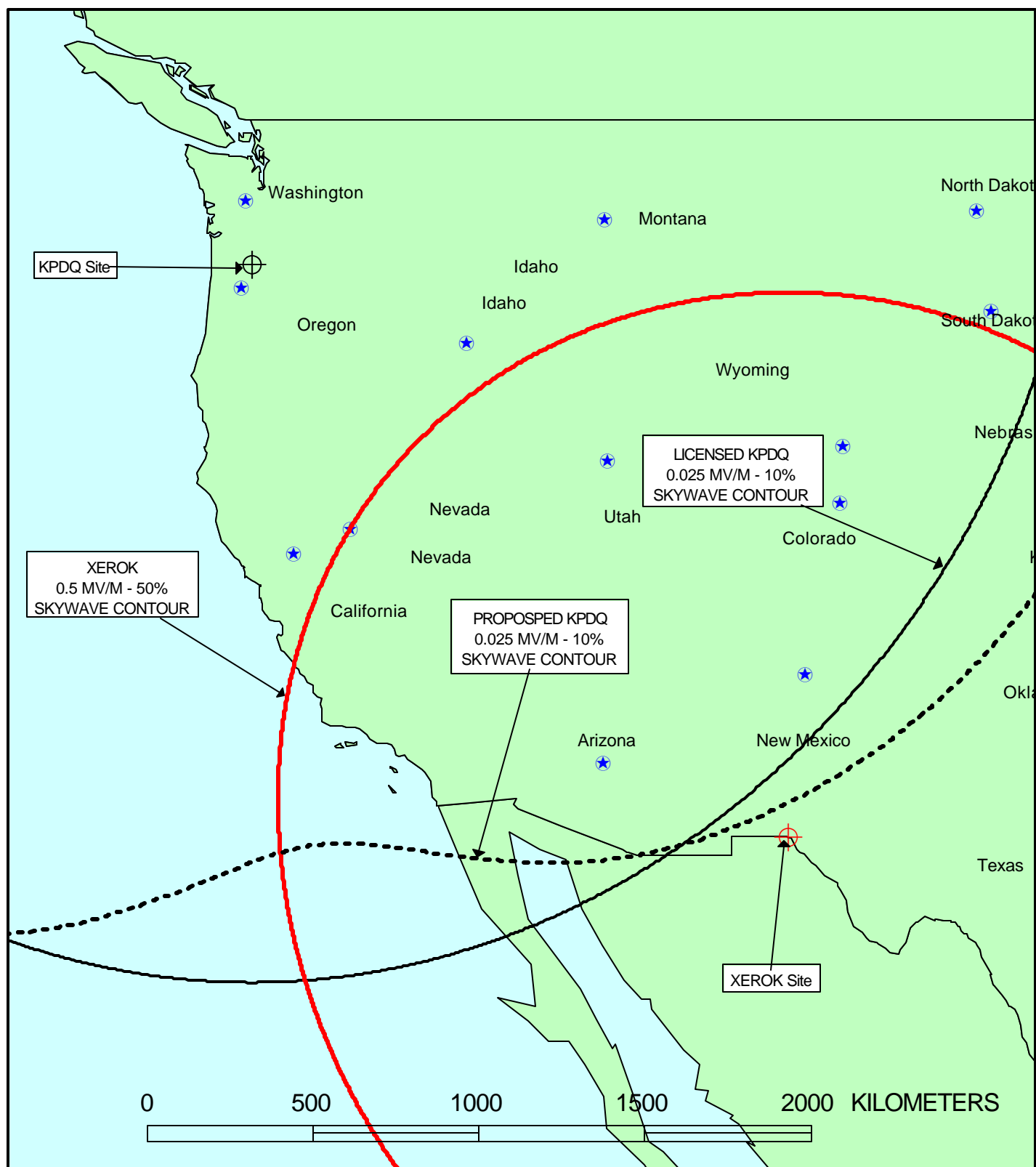


NIGHTTIME INTERFERENCE-FREE
COVERAGE CONTOURS

KPDQ(AM) - PORTLAND, OREGON

800 KHZ - 1.0 KW DAY/0.6 KW NIGHT - DA-N
FEBRUARY, 2005

FIGURE 20



SKYWAVE STUDY TO XEROK
KPDQ(AM) - PORTLAND, OREGON
800 KHZ - 1.0 kW DAY/0.6 KW NIGHT - DA-N
FEBRUARY, 2005