

ENGINEERING EXHIBIT  
IN SUPPORT OF AN  
APPLICATION FOR CONSTRUCTION PERMIT  
KXST – NORTH LAS VEGAS, NEVADA  
1140 kHz – 12.0 kW DAY/0.1 kW NIGHT – DA-2  
FACILITY ID: 47745

Applicant: Audacy License, LLC

September, 2023



## TABLE OF CONTENTS

FCC Form 301 - Section III

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

### FIGURE NUMBER

Daytime Horizontal Standard Radiation Pattern.....	1
Tabulation of Daytime Horizontal Fields.....	2
Nighttime Horizontal Standard Radiation Pattern.....	3
Tabulation of Nighttime Horizontal Fields.....	4
Tabulation of Nighttime Vertical Fields.....	5-16
Proposed Daytime and Nighttime 1000 mV/m Contours.....	17
Proposed Daytime and Nighttime 25 mV/m Contours.....	18
Present and Proposed Daytime 5.0 mV/m Contours.....	19
Present and Proposed Daytime 2.0 mV/m Contours.....	20
Present and Proposed Daytime 0.5 mV/m Contours.....	21
Daytime Allocation Study .....	22
Co-Channel Stations .....	22A
Enlarged to KLIV and KNWQ.....	22B
First-Adjacent Channel Stations .....	22C
Third-Adjacent Channel Station.....	22D
Present and Proposed Nighttime Interference-Free Contour .....	23
Nighttime Allocation Study .....	24



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1140 kHz – 12.0 kW DAY/0.1 kW NIGHT – DA-2  
Facility ID: 47745

Applicant: Audacy License, LLC

I am a Consulting 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. 0402027914.

GENERAL

This office has been authorized by Audacy License, LLC (“Audacy”), licensee of Standard Broadcast Station KXST, North Las Vegas, Nevada, to prepare this Engineering Statement, FCC Form 301 (Section III), and the attached figures in support of an Application for Construction Permit. The application requests relocation of the KXST antenna system to the KXNT transmitter site. The KXNT site is located 18.5 kilometers at a bearing of 38.6° from the licensed KXST transmitter site.

KXST is presently licensed to operate on 1140 kHz with a daytime power of 10.0 kW and a nighttime power of 2.5 kW.<sup>1</sup> The licensed daytime operation is non-directional while the licensed nighttime operation is directional, employing a four-tower inline array. The host station, KXNT is licensed to North Las Vegas, Nevada and operates on a frequency of 840 kHz, with a power of 50.0 kW during daytime hours and 25.0 kW during nighttime hours. The KXNT existing four-tower skewed parallelogram array is used for both the day and night directional operations, DA-2.

The instant application proposes a daytime directional operation using towers #1 and #3 of the KXNT array. KXST will use towers #2, #3 and #4 of the existing five towers on the property for the proposed night directional operation. KXST proposes to operate at a power of 12.0 kW during daytime hours and 0.1 kW during nighttime hours.<sup>2</sup>

#### ANTENNA SYSTEM

The instant application proposes the use of tower #1 (ASR #1059595) and tower #3 (ASR #1059597) for the KXST directional daytime operation. Towers #2, #3 and #4 (ASR #'s: 1059596, 1059597 and 1059598, respectively) will be used to generate the proposed KXST night pattern. KXST proposes operation at a power of 12.0 kW during daytime hours and 0.1 kW during nighttime hours. At KXST's frequency of 1140 kHz, the KXNT towers are 122.1 electrical degrees in height.

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<sup>1</sup> KXST has been "silent" since March 1, 2023, FCC File No. 0000211968.

<sup>2</sup> AM station KDWN – 720 kHz, Las Vegas, Nevada will concurrently (or shortly thereafter) file an Application for Construction Permit to relocate to the KXNT site, resulting in a triplex operation.

The proposed daytime horizontal plane standard radiation pattern is shown in the polar graph of Figure 1. The daytime horizontal plane inverse distance fields are tabulated in Figure 2. The proposed nighttime horizontal plane standard radiation pattern is shown in the polar graph Figure 3. The nighttime horizontal plane inverse distance fields are tabulated in Figure 4. Figures 5 through 16 contain tabulations of the vertical inverse distance fields for the proposed nighttime pattern.

#### GROUND SYSTEM

The existing ground system consists of 120, 89.0 meter (0.338 wavelength), buried copper radials except where shortened due to property boundaries or where bonded to a transverse copper strap midway between adjacent towers. The proposed daytime directional Theoretical RMS is calculated to be 1143 mV/m at 1 km. The proposed nighttime directional Theoretical RMS is calculated to be 96.22 mV/m at 1 km.

#### FAA NOTIFICATION AND TOWER REGISTRATION

Because KXST is proposing to utilize the KXNT existing towers without physical alteration, it is believed that no further notification to the Federal Aviation Administration (FAA) is necessary.

The existing towers are 90.2 meters AGL (760.8 meters AMSL). The Tower Registration Numbers are: Tower #1 - 1059595; Tower #2 – 1059596; Tower #3 - 1059597; Tower #4 -1059598 and Tower #5 – 1059599.<sup>3</sup>

#### SITE AND SURROUNDING TERRAIN

The proposed antenna/transmitter location and surrounding terrain characteristics are contained in the FCC's files for KXNT. The proposed center-of-array coordinates, as specified by KXNT, are:

NAD-27 Coordinates

North Latitude: 36° 23' 53"

West Longitude: 114° 54' 57"

NAD-83 Coordinates

North Latitude: 36° 23' 52.9"

West Longitude: 114° 55' 00.0"

These coordinates will be used to define the proposed daytime and nighttime directional operations.

#### BLANKETING AND STATION INTERACTION

The population within the proposed KXST daytime and nighttime 1000 mV/m contours is less than 300 persons. The proposed 1000 mV/m contours are shown on the

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<sup>3</sup> Tower numbering corresponds to the KXNT tower numbering sequence and ASR.

map of Figure 17 and the proposed 25 mV/m contours are shown on the map of Figure 18. In response to all complaints of blanketing interference, the applicant will undertake steps to mitigate the interference in accordance with the requirements of Section 73.88 of the Commission's Rules and Regulations.

It is proposed to collocate KXST at the KXNT site and diplex onto the KXNT antennas, resulting in a triplex operation.<sup>4</sup> Filter and detuning networks will be installed by the applicant to minimize interaction between the three stations such that no adverse impact will result from the collocation of the two stations at the KXNT site. There are no other AM stations located within 3.2 kilometers of the proposed KXST/KDWN/KXNT site. There are three FM booster stations, and two FM auxiliary stations located within 10 kilometers of the proposed site. There are no TV stations located within 10 kilometers of the proposed site. It is expected that no detrimental interaction will occur with any station.

### COVERAGE CONTOURS

The present and proposed daytime 5.0 mV/m service contours are shown on the map of Figure 19. The proposed daytime 5.0 mV/m contour encompasses 100% of the city of license, North Las Vegas, Nevada, therefore Section 73.24(i) of the Rules is

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<sup>4</sup> It is proposed to also co-locate AM station KDWN-720 kHz, Las Vegas, Nevada at the KXNT site. An Application for Construction Permit will be filed concurrently or shortly thereafter.

satisfied. The present and proposed 2.0 mV/m daytime contours are shown on the map of Figure 20.

The present and proposed nighttime interference-free (“NIF”) contour is shown on the map of Figure 23. The proposed NIF contour is 5.06 mV/m. The proposed NIF contour will encompass 5.04% of the population and 40.1% of the area of the city of license. Coverage of the community of license during the night is no longer a requirement at night for an existing licensed AM facility.

#### DAYTIME ALLOCATION STUDY

Nine stations were considered in detail regarding the daytime allocation. These stations are:

KQNA	1130 kHz	Prescott Valley, Arizona;
KRDU	1130 kHz	Dinuba, California;
KNWQ	1140 kHz	Palm Springs, California;
KVLI	1140 kHz	Lake Isabella, California;
KHTK	1140 kHz	Sacramento, California;
KGEM	1140 kHz	Boise, Idaho;
KCKY	1150 kHz	Coolidge, Arizona;
KEIB	1150 kHz	Los Angeles, California; and
KYET	1170 kHz	Golden Valley, Arizona.

The map of Figure 22 depicts the daytime allocation situation for the above cited stations as they pertain to the present and proposed KXST operations. The distances to



all groundwave contours were calculated using the equivalent distance method. Contours were calculated at 5 degree intervals using ground conductivity values shown on the FCC's M-3 soil conductivity map. Tabulations of distances to groundwave contours and conductivity profiles are not included herein, but can be provided upon request. A further breakdown of the daytime allocation by channel relationship is detailed below.

#### CO-CHANNEL PROTECTION

The map of Figure 22A confirms that there is no overlap between the present and proposed 0.025 mV/m interfering contour with the 0.5 mV/m protected contours of co-channel stations KHTK and KGEM. In addition, there is no overlap between the present and proposed 0.5 mV/m protected contour with the 0.025 mV/m interfering contours of stations KHTK and KGEM.

Figure 22A indicates present overlap of the 0.025 mV/m interfering contour with the 0.5 mV/m protected contours of KNWQ and KVLI. The proposal will reduce the amount of caused overlap to KNWQ and eliminate the caused overlap to KVLI. The proposal will have no received overlap, either present or proposed, between KXST and KVLI. Figure 22A also depicts present overlap of the 0.5 mV/m protected contour of KXST with the 0.025 mV/m interfering contour of KNWQ. The proposal will reduce the amount of received overlap from KNWQ. A detailed view of the area of contour overlap with KNWQ and KVLI is shown on the map of Figure 22B. Detailed overlap studies were

conducted to determine that the overall overlap area between KXST and KNWQ was not increased. The table below supports this conclusion.

	<b>PRESENT OVERLAP</b>	<b>PROPOSED OVERLAP</b>
Caused to KNWQ	121,292 persons/4,632.1 sq. km	69,414 persons/3,307.3 sq. km
Received from KNWQ	64,103 persons/8,501.7 sq. km	60,761 persons/6,883.3 sq. km

#### FIRST-ADJACENT CHANNEL PROTECTION

The map of Figure 22C shows no existing overlap between the present and proposed 0.25 mV/m interfering contour and the 0.5 mV/m protected contours of KXST and the 0.5 mV/m protected contour and the 0.25 mV/m interfering contours of KQNA, KCKY, KRDU and KEIB.

#### SECOND-ADJACENT CHANNEL PROTECTION

There are no second adjacent channel station within close proximity that warrant consideration.

#### THIRD-ADJACENT CHANNEL PROTECTION

The map of Figure 22D shows no existing or proposed overlap between the 25 mV/m contours of KXST and KYET.

### NIGHTTIME ALLOCATION STUDY

Figure 24 is a tabulation of the present and proposed RSS calculations for co-channel and first-adjacent channel stations that may be impacted by the instant proposal. The proposed nighttime facility of KXST will not raise the 25% or 50% RSS limit of any domestic station or the 50% RSS limit of any foreign station. Any protection towards a station resulting in a proposed margin greater than 1000 mV/m is not included in Figure 24. Also, it is shown that the skywave contour of XEMR is fully protected within the land boundaries of Mexico. In addition, the skywave contour of Class A station, WRVA-Richmond, VA is fully protected. Based on the studies, the proposed KXST nighttime facility is compliant with all current domestic and international nighttime allocations standards.

### ENVIRONMENTAL IMPACT

This engineering statement certifies compliance with human exposure to radio-frequency radiation. The proposal described herein does not involve high intensity lighting as specified under Section 1.1307(a)(8), nor will it result in human exposure to radio-frequency radiation in excess of the standards specified in Section 1.1307(b).

### RADIO-FREQUENCY 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 tables and mathematical equations that can be used to determine compliance with the Commission’s guidelines.

The proposed facility will be co-located with the 840 kHz operation of KXNT and the proposed 720 kHz operation of KDWN<sup>5</sup> and thus is considered a multiple-use site.

#### CALCULATION METHODS

Verification of compliance with FCC-specified guidelines for human exposure to RF radiation was obtained from OET Bulletin No. 65.

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<sup>5</sup> Ibid.

Tables 1-3 of Supplement A to OET Bulletin 65 (Edition 97-01) provides compliance distances for tower heights of 0.1 wavelength, 0.25 wavelength and 0.5 wavelength. The electrical height of the existing towers at the KXST frequency of 1140 kHz is 0.339 wavelength. The electrical height of the existing towers at the KDWN frequency of 720 kHz is 0.214 wavelength. At KXNT's frequency of 840 kHz, the antenna height is 0.25 wavelength. Assuming a worst case tower height of 0.214 wavelength and a worst case frequency range of 535-740 kHz, the minimum fencing requirements were interpolated from Tables 1 and 2.

The power breakdown for each operating mode in each tower is tabulated below:

**DAY MODE (Power in Watts)**

	#1 ASR #1059595	#2 ASR #1059596	#3 ASR #1059597	#4 ASR #1059598	#5 ASR #1059599
KXNT	16,967.6	24,244.2	-113.4	8,901.6	----
KDWN Proposed	----	25,000.0	----	----	----
KXST Proposed	10,791.2	----	1,208.8	----	----
<b>TOTAL POWER</b>	<b>27,758.8</b>	<b>49,244.2</b>	<b>1,322.2</b>	<b>8,901.6</b>	<b>----</b>

**NIGHT MODE (Power in Watts)**

	#1 ASR #1059595	#2 ASR #1059596	#3 ASR #1059597	#4 ASR #1059598	#5 ASR #1059599
KXNT	8,483.8	12,122.1	-56.7	4,450.8	----
KDWN Proposed	3,136.5	----	687.6	175.9	----
KXST Proposed	-----	63.1	36.9	0.3	----
<b>TOTAL POWER</b>	<b>11,575.3</b>	<b>12,185.2</b>	<b>780.1</b>	<b>4,627.0</b>	<b>----</b>

The daytime mode represents the highest power levels for all towers. The highest combined input power to any tower is 49,244.2 watts at the input to Tower #2 during the daytime operating mode. A fence of no less than 6.1 meters (assuming worst case assumptions as defined above) from the base of tower #2 would be compliant with the radio-frequency energy requirements of the FCC regarding the occupational/controlled and the general population/uncontrolled MPE limits.

For Towers #1, #3 and #4, the maximum power also occurs during the day mode. Tower #5 is unused. A summary of the minimum necessary fencing requirements for all the used towers are:

Tower #1: 4.6 meters  
Tower #2: 6.1 meters  
Tower #3: 1.6 meters  
Tower #4: 3.2 meters

The existing fencing will be modified if necessary to meet these fencing requirements. Each fence will be locked to preclude public access and appropriate warning signs will be installed on the fence. In addition, the perimeter of the tower site is fenced to prevent public access.

#### OCCUPATIONAL SAFETY

As stated above, access to the area surrounding the base of each of the KXST/KXST/KXNT towers will be restricted to authorized maintenance personnel only.

The licensee(s) of KXST, KXST and KXNT will institute procedures to ensure protection of station personnel and tower contractors working on or in the immediate vicinity of the towers. Procedures will be followed during times of service or maintenance of the transmission systems to ensure that personnel are not exposed to energy levels in excess of the maximum permissible exposure limit.

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

#### CONCLUSION

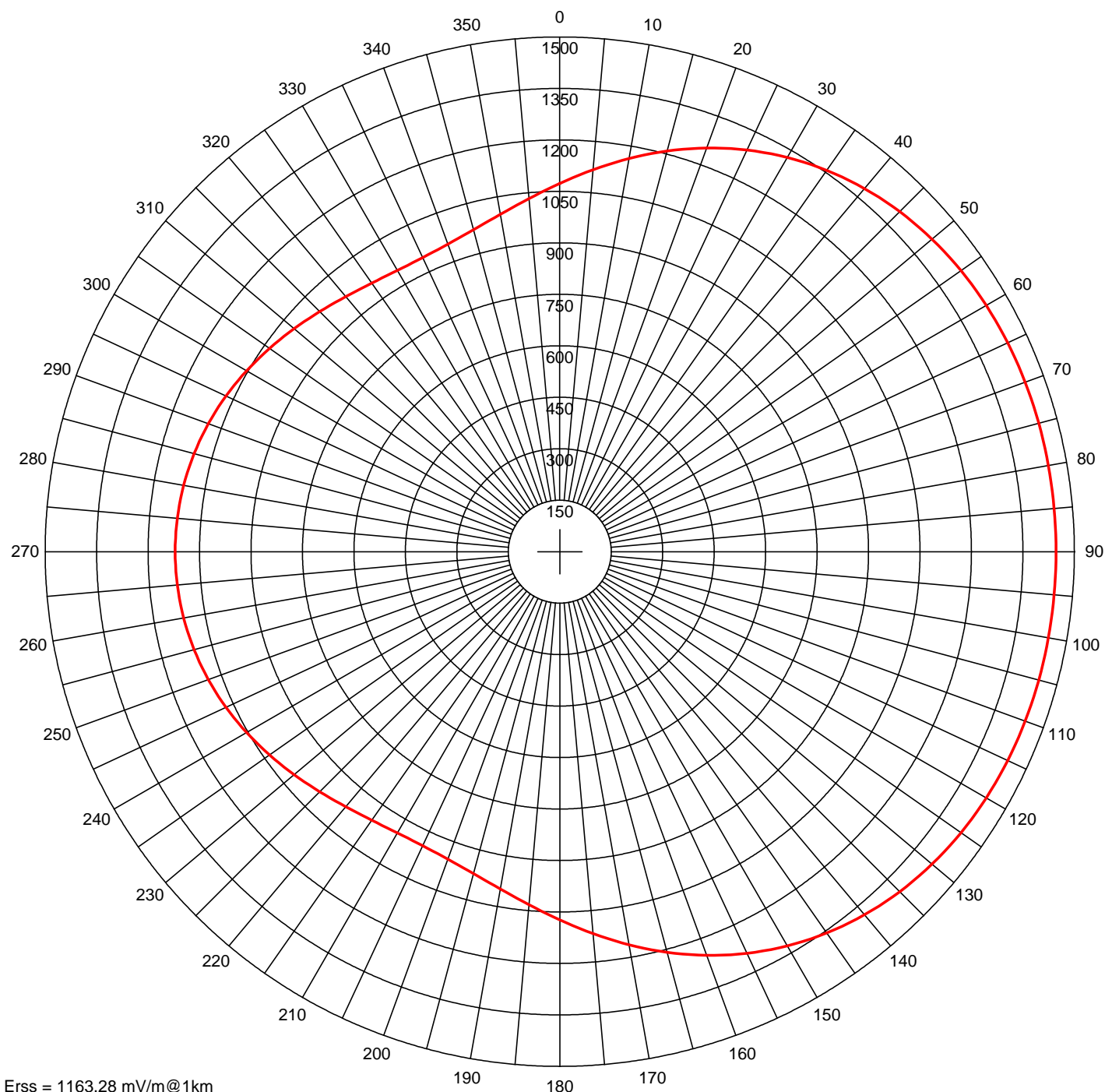
It is submitted that the proposed facility described herein would comply with the technical standards of the Commission's Rules and Regulations. This engineering statement, Section III of FCC Form 301, and the associated figures were prepared by me or under my direct supervision and are believed to be true and correct.

DATED: September 20, 2023



FIGURE 1

## AM Directional Pattern



Erss = 1163.28 mV/m@1km  
 Theo RMS: 1143 mV/m@1km  
 Std RMS: 1201 mV/m@1km  
 Q: 34.641 mV/m@1km

Standard Horizontal Plane Pattern

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	122.1	0	0	0.0	0.0	0.0	0.0
2	0.210	-124.7	122.1	90.0	122.1	0	0	0.0	0.0	0.0	0.0

PROPOSED DAYTIME STANDARD HORIZONTAL  
 PLANE RADIATION PATTERN  
 KXST - NORTH LAS VEGAS, NEVADA  
 1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
 SEPTEMBER, 2023

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: D  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 12.0 kW  
 Theo RMS: 1143 mV/m@1km  
 @ 12.0 kW



### DAYTIME STANDARD PATTERN TABULATIONS

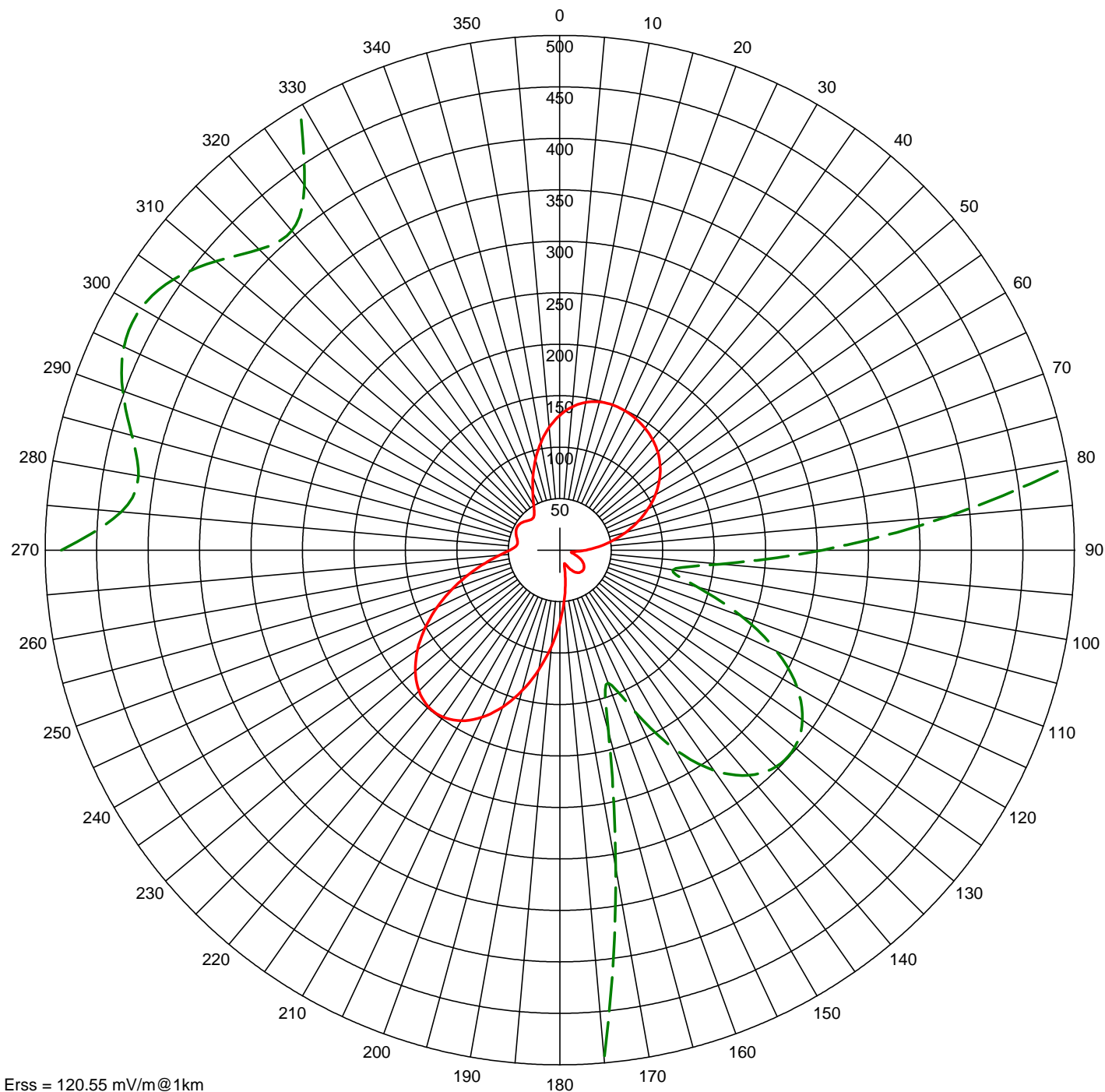
Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: D  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 12.0 kW  
 Theo RMS: 1143 mV/m @ 1km @ 12.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	122.1	0	0	0.0	0.0	0.0	0.0
2	0.210	-124.7	122.1	90.0	122.1	0	0	0.0	0.0	0.0	0.0

### Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1073.12	120.0	1435.56	240.0	1054.06
5.0	1117.40	125.0	1427.78	245.0	1073.37
10.0	1163.26	130.0	1416.60	250.0	1089.99
15.0	1208.64	135.0	1401.36	255.0	1103.37
20.0	1251.80	140.0	1381.49	260.0	1113.15
25.0	1291.40	145.0	1356.59	265.0	1119.09
30.0	1326.51	150.0	1326.51	270.0	1121.08
35.0	1356.59	155.0	1291.40	275.0	1119.09
40.0	1381.49	160.0	1251.80	280.0	1113.15
45.0	1401.36	165.0	1208.64	285.0	1103.37
50.0	1416.60	170.0	1163.26	290.0	1089.99
55.0	1427.78	175.0	1117.40	295.0	1073.37
60.0	1435.56	180.0	1073.12	300.0	1054.06
65.0	1440.64	185.0	1032.65	305.0	1032.86
70.0	1443.72	190.0	998.14	310.0	1010.86
75.0	1445.41	195.0	971.45	315.0	989.46
80.0	1446.23	200.0	953.82	320.0	970.34
85.0	1446.56	205.0	945.70	325.0	955.43
90.0	1446.64	210.0	946.64	330.0	946.64
95.0	1446.56	215.0	955.43	335.0	945.70
100.0	1446.23	220.0	970.34	340.0	953.82
105.0	1445.41	225.0	989.46	345.0	971.45
110.0	1443.72	230.0	1010.86	350.0	998.14
115.0	1440.64	235.0	1032.86	355.0	1032.65

## AM Directional Pattern



Erss = 120.55 mV/m@1km  
 Theo RMS: 96.22 mV/m@1km  
 Std RMS: 101.6 mV/m@1km  
 Q: 10.0 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)  
 - - - Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	122.1	0	0	0.0	0.0	0.0	0.0
2	0.860	-8.5	200.5	302.0	122.1	0	0	0.0	0.0	0.0	0.0
3	0.297	105.5	122.1	90.0	122.1	0	0	0.0	0.0	0.0	0.0

PROPOSED NIGHTTIME STANDARD HORIZONTAL  
 PLANE RADIATION PATTERN  
 KXST - NORTH LAS VEGAS, NEVADA  
 1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
 SEPTEMBER, 2023

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m@1km  
 @ 0.1 kW

### NIGHTTIME STANDARD PATTERN TABULATIONS

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	122.1	0	0	0.0	0.0	0.0	0.0
2	0.860	-8.5	200.5	302.0	122.1	0	0	0.0	0.0	0.0	0.0
3	0.297	105.5	122.1	90.0	122.1	0	0	0.0	0.0	0.0	0.0

#### Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	130.94	120.0	26.63	240.0	151.03
5.0	139.75	125.0	28.78	245.0	131.51
10.0	145.74	130.0	29.80	250.0	111.35
15.0	149.07	135.0	29.74	255.0	91.76
20.0	150.15	140.0	28.55	260.0	73.94
25.0	149.49	145.0	26.11	265.0	59.09
30.0	147.51	150.0	22.29	270.0	48.44
35.0	144.44	155.0	17.34	275.0	42.76
40.0	140.22	160.0	13.76	280.0	41.58
45.0	134.62	165.0	18.25	285.0	43.04
50.0	127.33	170.0	31.36	290.0	45.19
55.0	118.19	175.0	49.45	295.0	46.71
60.0	107.18	180.0	70.79	300.0	46.98
65.0	94.55	185.0	94.12	305.0	45.84
70.0	80.73	190.0	118.11	310.0	43.65
75.0	66.27	195.0	141.27	315.0	41.31
80.0	51.80	200.0	162.09	320.0	40.51
85.0	37.99	205.0	179.17	325.0	43.26
90.0	25.54	210.0	191.37	330.0	50.64
95.0	15.64	215.0	197.93	335.0	62.03
100.0	11.16	220.0	198.57	340.0	76.01
105.0	13.82	225.0	193.46	345.0	91.07
110.0	18.81	230.0	183.19	350.0	105.93
115.0	23.28	235.0	168.67	355.0	119.49

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 5.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	130.35	120.0	25.75	240.0	150.41
5.0	138.99	125.0	27.90	245.0	131.19
10.0	144.86	130.0	28.95	250.0	111.31
15.0	148.10	135.0	28.91	255.0	91.97
20.0	149.13	140.0	27.77	260.0	74.33
25.0	148.43	145.0	25.38	265.0	59.55
30.0	146.44	150.0	21.64	270.0	48.79
35.0	143.36	155.0	16.88	275.0	42.84
40.0	139.16	160.0	13.74	280.0	41.29
45.0	133.60	165.0	18.67	285.0	42.43
50.0	126.39	170.0	31.78	290.0	44.36
55.0	117.37	175.0	49.70	295.0	45.77
60.0	106.52	180.0	70.80	300.0	46.01
65.0	94.08	185.0	93.84	305.0	44.94
70.0	80.47	190.0	117.53	310.0	42.90
75.0	66.23	195.0	140.39	315.0	40.84
80.0	51.98	200.0	160.94	320.0	40.40
85.0	38.35	205.0	177.81	325.0	43.49
90.0	26.05	210.0	189.87	330.0	51.04
95.0	16.15	215.0	196.39	335.0	62.43
100.0	11.23	220.0	197.07	340.0	76.27
105.0	13.31	225.0	192.09	345.0	91.13
110.0	18.05	230.0	182.02	350.0	105.76
115.0	22.43	235.0	167.76	355.0	119.10

FIGURE 6

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
Calculated at 10.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	128.57	120.0	23.26	240.0	148.53
5.0	136.74	125.0	25.41	245.0	130.18
10.0	142.25	130.0	26.50	250.0	111.13
15.0	145.25	135.0	26.56	255.0	92.52
20.0	146.12	140.0	25.53	260.0	75.42
25.0	145.33	145.0	23.30	265.0	60.88
30.0	143.28	150.0	19.83	270.0	49.92
35.0	140.18	155.0	15.68	275.0	43.26
40.0	136.02	160.0	13.91	280.0	40.70
45.0	130.58	165.0	19.94	285.0	40.91
50.0	123.61	170.0	32.99	290.0	42.18
55.0	114.94	175.0	50.41	295.0	43.24
60.0	104.56	180.0	70.79	300.0	43.40
65.0	92.68	185.0	93.00	305.0	42.53
70.0	79.69	190.0	115.79	310.0	40.99
75.0	66.09	195.0	137.77	315.0	39.74
80.0	52.45	200.0	157.55	320.0	40.31
85.0	39.38	205.0	173.79	325.0	44.30
90.0	27.50	210.0	185.46	330.0	52.27
95.0	17.69	215.0	191.83	335.0	63.58
100.0	11.81	220.0	192.64	340.0	76.99
105.0	12.15	225.0	188.04	345.0	91.25
110.0	16.02	230.0	178.56	350.0	105.21
115.0	20.07	235.0	165.04	355.0	117.90

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
Calculated at 15.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	125.61	120.0	19.66	240.0	145.36
5.0	133.03	125.0	21.73	245.0	128.39
10.0	137.99	130.0	22.86	250.0	110.68
15.0	140.61	135.0	23.04	255.0	93.26
20.0	141.24	140.0	22.18	260.0	77.07
25.0	140.30	145.0	20.24	265.0	63.03
30.0	138.17	150.0	17.31	270.0	51.96
35.0	135.07	155.0	14.36	275.0	44.46
40.0	130.98	160.0	14.80	280.0	40.54
45.0	125.74	165.0	22.06	285.0	39.35
50.0	119.13	170.0	34.87	290.0	39.57
55.0	111.01	175.0	51.44	295.0	40.03
60.0	101.36	180.0	70.67	300.0	40.06
65.0	90.35	185.0	91.55	305.0	39.53
70.0	78.32	190.0	112.92	310.0	38.82
75.0	65.72	195.0	133.52	315.0	38.83
80.0	53.07	200.0	152.04	320.0	40.85
85.0	40.88	205.0	167.31	325.0	45.95
90.0	29.71	210.0	178.34	330.0	54.32
95.0	20.22	215.0	184.48	335.0	65.34
100.0	13.52	220.0	185.48	340.0	78.02
105.0	11.42	225.0	181.46	345.0	91.30
110.0	13.50	230.0	172.89	350.0	104.20
115.0	16.77	235.0	160.54	355.0	115.86

FIGURE 8

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
Calculated at 20.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	121.48	120.0	15.87	240.0	140.87
5.0	127.95	125.0	17.65	245.0	125.69
10.0	132.20	130.0	18.73	250.0	109.74
15.0	134.35	135.0	19.00	255.0	93.90
20.0	134.68	140.0	18.39	260.0	79.00
25.0	133.58	145.0	16.92	265.0	65.79
30.0	131.37	150.0	14.96	270.0	54.92
35.0	128.26	155.0	13.95	275.0	46.84
40.0	124.28	160.0	16.82	280.0	41.66
45.0	119.31	165.0	24.91	285.0	38.96
50.0	113.18	170.0	37.19	290.0	37.90
55.0	105.75	175.0	52.61	295.0	37.59
60.0	97.01	180.0	70.33	300.0	37.47
65.0	87.10	185.0	89.45	305.0	37.40
70.0	76.30	190.0	108.97	310.0	37.73
75.0	64.98	195.0	127.76	315.0	39.18
80.0	53.58	200.0	144.67	320.0	42.62
85.0	42.56	205.0	158.65	325.0	48.59
90.0	32.36	210.0	168.85	330.0	57.05
95.0	23.48	215.0	174.67	335.0	67.48
100.0	16.55	220.0	175.89	340.0	79.10
105.0	12.52	225.0	172.60	345.0	91.07
110.0	12.00	230.0	165.19	350.0	102.57
115.0	13.70	235.0	154.34	355.0	112.90

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 25.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	116.22	120.0	13.38	240.0	135.04
5.0	121.62	125.0	14.43	245.0	121.94
10.0	125.07	130.0	15.23	250.0	108.05
15.0	126.69	135.0	15.52	255.0	94.11
20.0	126.70	140.0	15.23	260.0	80.82
25.0	125.43	145.0	14.52	265.0	68.80
30.0	123.17	150.0	14.05	270.0	58.54
35.0	120.09	155.0	15.31	275.0	50.40
40.0	116.27	160.0	19.93	280.0	44.49
45.0	111.61	165.0	28.23	285.0	40.67
50.0	106.01	170.0	39.68	290.0	38.50
55.0	99.37	175.0	53.69	295.0	37.47
60.0	91.66	180.0	69.60	300.0	37.18
65.0	82.99	185.0	86.67	305.0	37.57
70.0	73.57	190.0	104.02	310.0	38.83
75.0	63.70	195.0	120.70	315.0	41.43
80.0	53.75	200.0	135.73	320.0	45.78
85.0	44.07	205.0	148.21	325.0	52.07
90.0	35.05	210.0	157.41	330.0	60.16
95.0	27.03	215.0	162.84	335.0	69.63
100.0	20.40	220.0	164.27	340.0	79.89
105.0	15.61	225.0	161.78	345.0	90.29
110.0	13.06	230.0	155.69	350.0	100.18
115.0	12.61	235.0	146.55	355.0	108.98



Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
Calculated at 30.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	109.88	120.0	13.67	240.0	127.87
5.0	114.16	125.0	13.64	245.0	117.00
10.0	116.80	130.0	13.85	250.0	105.34
15.0	117.87	135.0	14.03	255.0	93.52
20.0	117.58	140.0	14.12	260.0	82.09
25.0	116.18	145.0	14.37	265.0	71.56
30.0	113.89	150.0	15.46	270.0	62.32
35.0	110.91	155.0	18.33	275.0	54.65
40.0	107.28	160.0	23.69	280.0	48.69
45.0	102.99	165.0	31.66	285.0	44.41
50.0	97.97	170.0	42.03	290.0	41.65
55.0	92.14	175.0	54.42	295.0	40.17
60.0	85.49	180.0	68.34	300.0	39.79
65.0	78.09	185.0	83.16	305.0	40.44
70.0	70.11	190.0	98.16	310.0	42.22
75.0	61.76	195.0	112.56	315.0	45.32
80.0	53.32	200.0	125.55	320.0	49.87
85.0	45.09	205.0	136.40	325.0	55.87
90.0	37.34	210.0	144.51	330.0	63.14
95.0	30.35	215.0	149.47	335.0	71.34
100.0	24.37	220.0	151.08	340.0	80.03
105.0	19.63	225.0	149.39	345.0	88.71
110.0	16.29	230.0	144.65	350.0	96.86
115.0	14.40	235.0	137.29	355.0	104.04

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
Calculated at 35.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	102.57	120.0	16.34	240.0	119.42
5.0	105.76	125.0	15.54	245.0	110.79
10.0	107.61	130.0	15.23	250.0	101.41
15.0	108.19	135.0	15.26	255.0	91.77
20.0	107.63	140.0	15.66	260.0	82.33
25.0	106.14	145.0	16.65	265.0	73.49
30.0	103.89	150.0	18.65	270.0	65.57
35.0	101.05	155.0	22.17	275.0	58.80
40.0	97.68	160.0	27.52	280.0	53.33
45.0	93.79	165.0	34.81	285.0	49.20
50.0	89.36	170.0	43.92	290.0	46.37
55.0	84.34	175.0	54.58	295.0	44.78
60.0	78.72	180.0	66.40	300.0	44.35
65.0	72.56	185.0	78.91	305.0	45.04
70.0	65.96	190.0	91.51	310.0	46.88
75.0	59.09	195.0	103.58	315.0	49.88
80.0	52.15	200.0	114.49	320.0	54.05
85.0	45.34	205.0	123.67	325.0	59.29
90.0	38.90	210.0	130.64	330.0	65.43
95.0	33.01	215.0	135.07	335.0	72.18
100.0	27.84	220.0	136.80	340.0	79.20
105.0	23.55	225.0	135.85	345.0	86.11
110.0	20.21	230.0	132.40	350.0	92.52
115.0	17.83	235.0	126.79	355.0	98.10

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 40.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	94.40	120.0	19.78	240.0	109.80
5.0	96.60	125.0	18.74	245.0	103.28
10.0	97.76	130.0	18.23	250.0	96.09
15.0	97.90	135.0	18.23	255.0	88.59
20.0	97.15	140.0	18.82	260.0	81.15
25.0	95.63	145.0	20.14	265.0	74.07
30.0	93.49	150.0	22.45	270.0	67.62
35.0	90.85	155.0	25.99	275.0	62.00
40.0	87.79	160.0	30.94	280.0	57.34
45.0	84.34	165.0	37.32	285.0	53.73
50.0	80.49	170.0	45.06	290.0	51.18
55.0	76.24	175.0	53.96	295.0	49.70
60.0	71.58	180.0	63.71	300.0	49.26
65.0	66.55	185.0	73.94	305.0	49.84
70.0	61.23	190.0	84.20	310.0	51.42
75.0	55.72	195.0	94.01	315.0	53.97
80.0	50.17	200.0	102.90	320.0	57.42
85.0	44.71	205.0	110.44	325.0	61.65
90.0	39.51	210.0	116.27	330.0	66.50
95.0	34.70	215.0	120.13	335.0	71.74
100.0	30.42	220.0	121.90	340.0	77.11
105.0	26.75	225.0	121.57	345.0	82.32
110.0	23.75	230.0	119.28	350.0	87.10
115.0	21.44	235.0	115.26	355.0	91.19

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 45.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	85.53	120.0	22.93	240.0	99.20
5.0	86.89	125.0	21.95	245.0	94.56
10.0	87.47	130.0	21.49	250.0	89.34
15.0	87.28	135.0	21.57	255.0	83.82
20.0	86.40	140.0	22.27	260.0	78.25
25.0	84.92	145.0	23.68	265.0	72.89
30.0	82.95	150.0	25.96	270.0	67.93
35.0	80.59	155.0	29.22	275.0	63.53
40.0	77.88	160.0	33.53	280.0	59.82
45.0	74.89	165.0	38.90	285.0	56.89
50.0	71.62	170.0	45.25	290.0	54.78
55.0	68.09	175.0	52.43	295.0	53.51
60.0	64.29	180.0	60.20	300.0	53.08
65.0	60.27	185.0	68.29	305.0	53.48
70.0	56.07	190.0	76.36	310.0	54.68
75.0	51.76	195.0	84.08	315.0	56.61
80.0	47.43	200.0	91.10	320.0	59.22
85.0	43.18	205.0	97.10	325.0	62.38
90.0	39.11	210.0	101.83	330.0	65.95
95.0	35.32	215.0	105.10	335.0	69.75
100.0	31.90	220.0	106.82	340.0	73.61
105.0	28.92	225.0	106.97	345.0	77.29
110.0	26.41	230.0	105.64	350.0	80.62
115.0	24.41	235.0	102.98	355.0	83.41

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 50.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	76.14	120.0	25.27	240.0	87.84
5.0	76.83	125.0	24.52	245.0	84.78
10.0	76.97	130.0	24.22	250.0	81.24
15.0	76.55	135.0	24.42	255.0	77.43
20.0	75.63	140.0	25.17	260.0	73.53
25.0	74.26	145.0	26.55	265.0	69.71
30.0	72.52	150.0	28.61	270.0	66.12
35.0	70.47	155.0	31.42	275.0	62.90
40.0	68.17	160.0	35.00	280.0	60.14
45.0	65.65	165.0	39.33	285.0	57.92
50.0	62.95	170.0	44.34	290.0	56.29
55.0	60.08	175.0	49.91	295.0	55.27
60.0	57.05	180.0	55.88	300.0	54.87
65.0	53.90	185.0	62.04	305.0	55.08
70.0	50.65	190.0	68.16	310.0	55.87
75.0	47.36	195.0	74.01	315.0	57.19
80.0	44.07	200.0	79.35	320.0	58.97
85.0	40.85	205.0	83.96	325.0	61.13
90.0	37.78	210.0	87.68	330.0	63.54
95.0	34.90	215.0	90.36	335.0	66.10
100.0	32.28	220.0	91.95	340.0	68.64
105.0	29.97	225.0	92.41	345.0	71.05
110.0	28.02	230.0	91.81	350.0	73.17
115.0	26.44	235.0	90.24	355.0	74.90

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 55.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	66.40	120.0	26.59	240.0	75.99
5.0	66.62	125.0	26.12	245.0	74.16
10.0	66.45	130.0	26.01	250.0	71.97
15.0	65.91	135.0	26.32	255.0	69.55
20.0	65.03	140.0	27.07	260.0	67.02
25.0	63.82	145.0	28.31	265.0	64.50
30.0	62.35	150.0	30.06	270.0	62.10
35.0	60.65	155.0	32.35	275.0	59.91
40.0	58.77	160.0	35.17	280.0	58.00
45.0	56.74	165.0	38.50	285.0	56.43
50.0	54.58	170.0	42.27	290.0	55.25
55.0	52.32	175.0	46.41	295.0	54.48
60.0	49.97	180.0	50.78	300.0	54.12
65.0	47.57	185.0	55.27	305.0	54.17
70.0	45.13	190.0	59.71	310.0	54.61
75.0	42.68	195.0	63.96	315.0	55.40
80.0	40.25	200.0	67.86	320.0	56.48
85.0	37.90	205.0	71.27	325.0	57.79
90.0	35.65	210.0	74.08	330.0	59.26
95.0	33.56	215.0	76.19	335.0	60.79
100.0	31.65	220.0	77.58	340.0	62.30
105.0	29.97	225.0	78.21	345.0	63.70
110.0	28.55	230.0	78.11	350.0	64.89
115.0	27.41	235.0	77.34	355.0	65.81

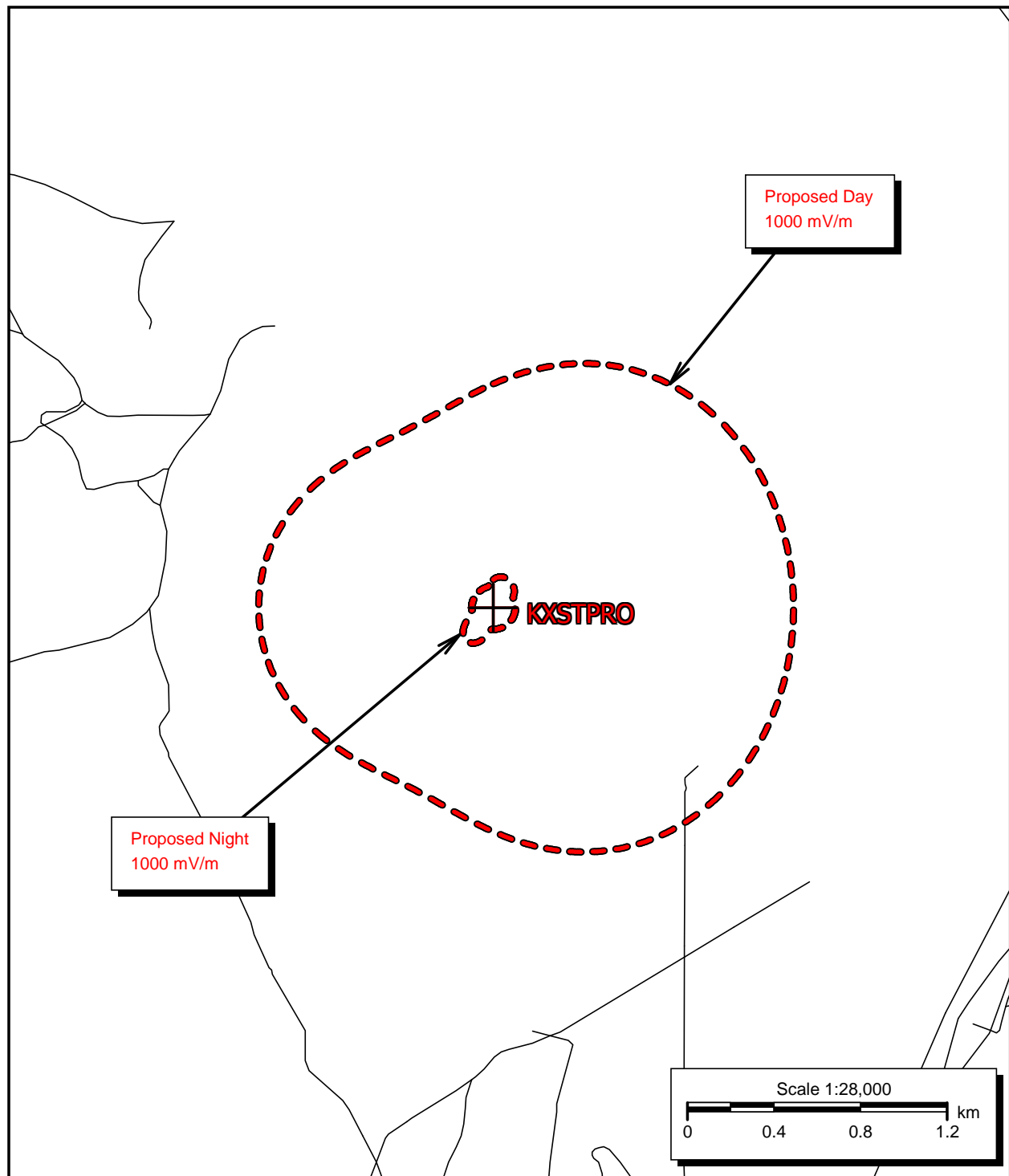
Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

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Standard Pattern  
 Calculated at 60.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	56.49	120.0	26.81	240.0	63.94
5.0	56.40	125.0	26.58	245.0	62.99
10.0	56.08	130.0	26.63	250.0	61.80
15.0	55.51	135.0	26.99	255.0	60.42
20.0	54.72	140.0	27.68	260.0	58.95
25.0	53.72	145.0	28.71	265.0	57.44
30.0	52.54	150.0	30.10	270.0	55.98
35.0	51.21	155.0	31.85	275.0	54.62
40.0	49.75	160.0	33.94	280.0	53.41
45.0	48.19	165.0	36.36	285.0	52.40
50.0	46.55	170.0	39.04	290.0	51.61
55.0	44.85	175.0	41.95	295.0	51.06
60.0	43.11	180.0	44.99	300.0	50.76
65.0	41.34	185.0	48.09	305.0	50.70
70.0	39.57	190.0	51.15	310.0	50.87
75.0	37.82	195.0	54.08	315.0	51.25
80.0	36.10	200.0	56.78	320.0	51.80
85.0	34.45	205.0	59.18	325.0	52.47
90.0	32.88	210.0	61.21	330.0	53.23
95.0	31.44	215.0	62.80	335.0	54.02
100.0	30.13	220.0	63.93	340.0	54.77
105.0	28.99	225.0	64.59	345.0	55.44
110.0	28.04	230.0	64.79	350.0	55.98
115.0	27.31	235.0	64.55	355.0	56.34

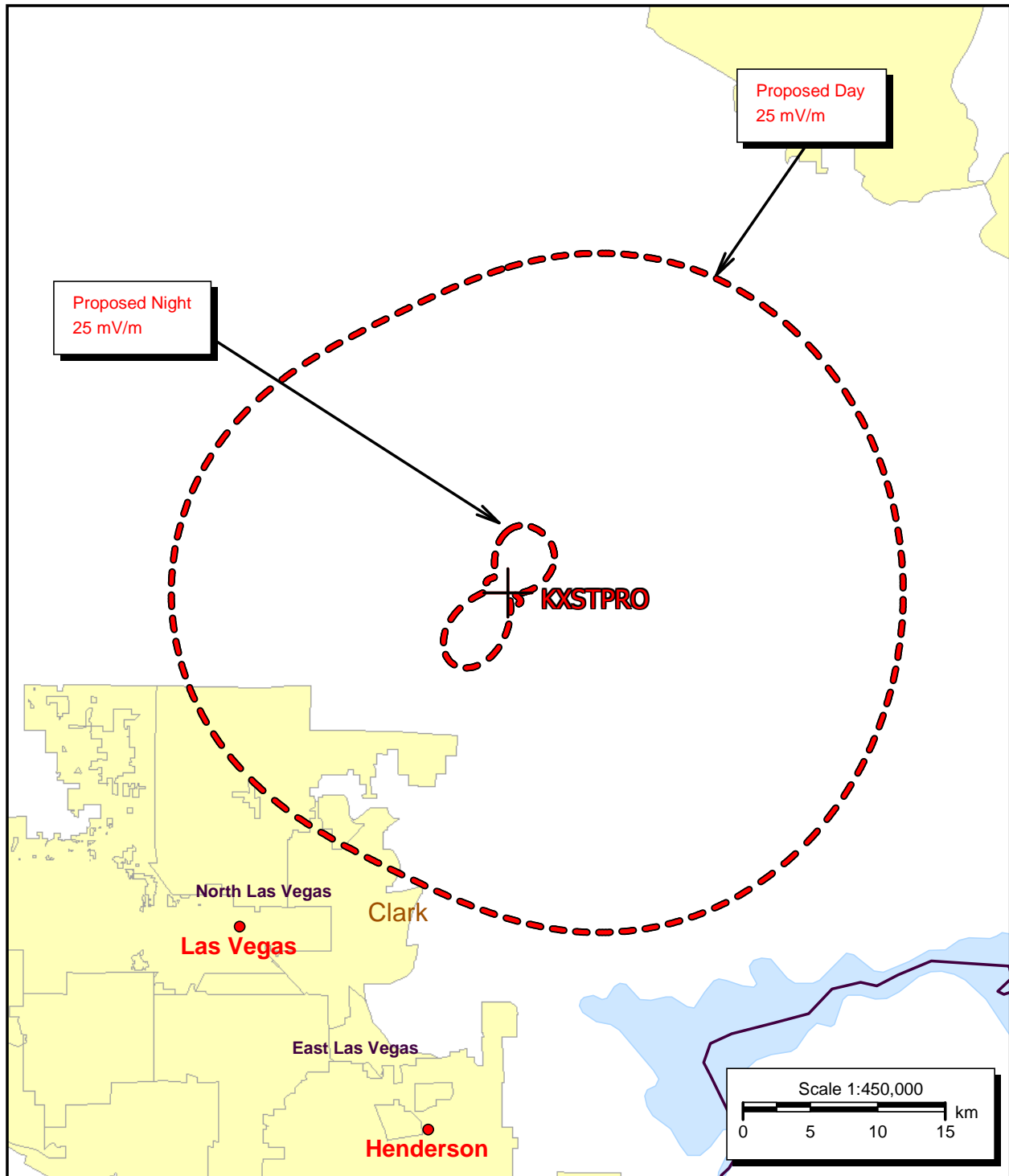
FIGURE 17



PROPOSED 1000 MV/M  
DAYTIME AND NIGHTTIME COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-N  
SEPTEMBER, 2023

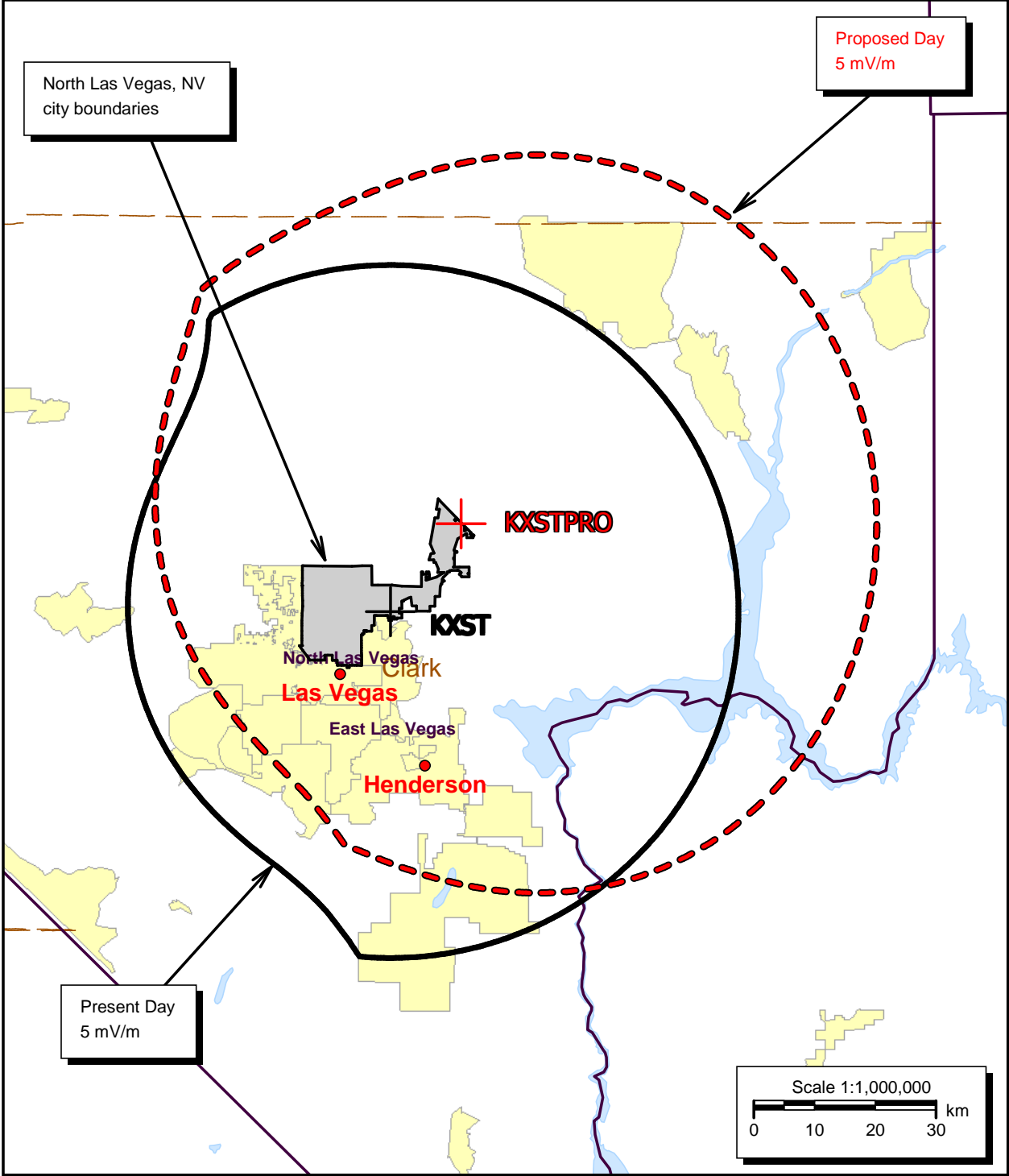


FIGURE 18



PROPOSED 25 MV/M  
DAYTIME AND NIGHTTIME COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-N  
SEPTEMBER, 2023

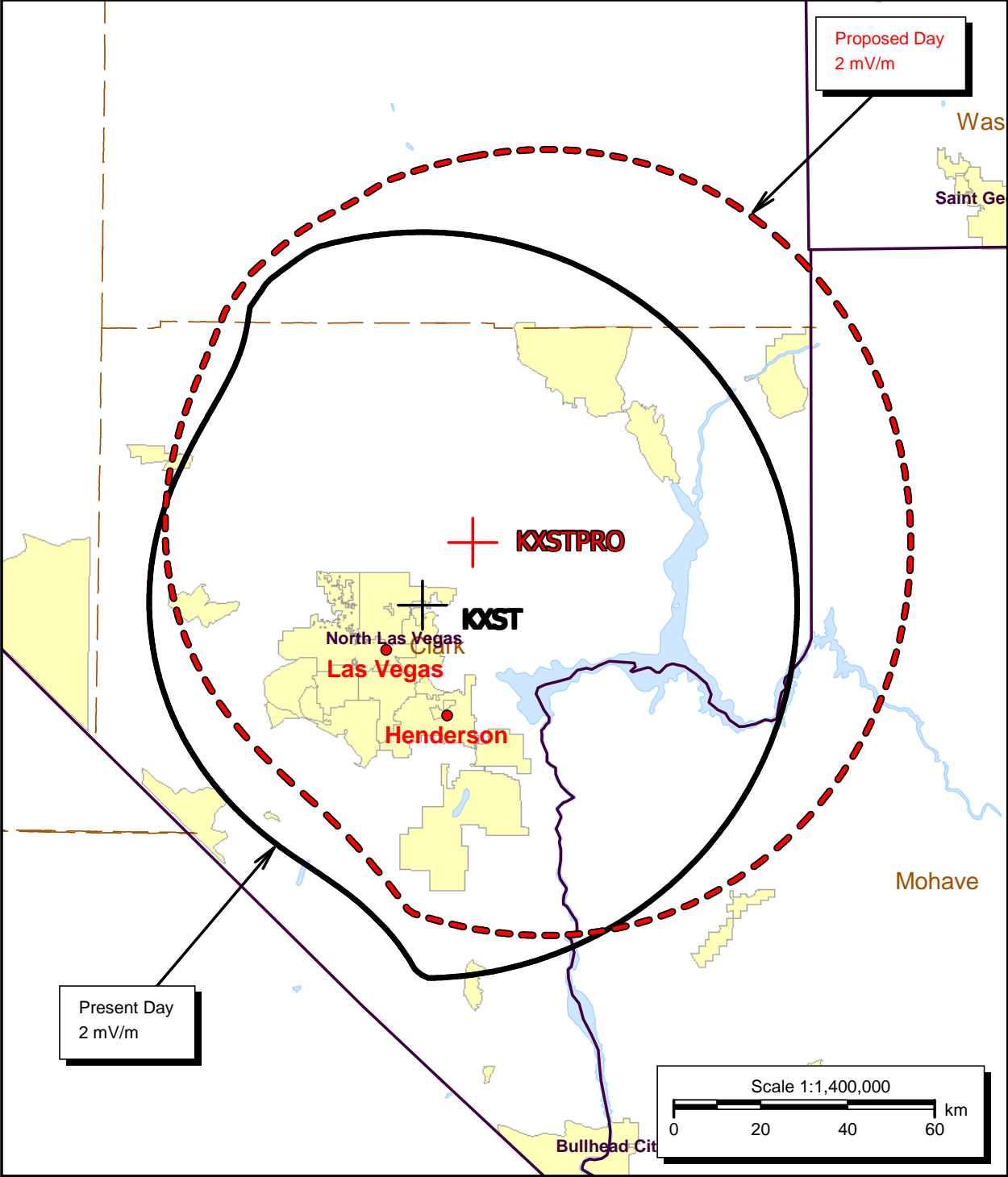
FIGURE 19



PRESENT AND PROPOSED 5.0 MV/M  
DAYTIME COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-N  
SEPTEMBER, 2023



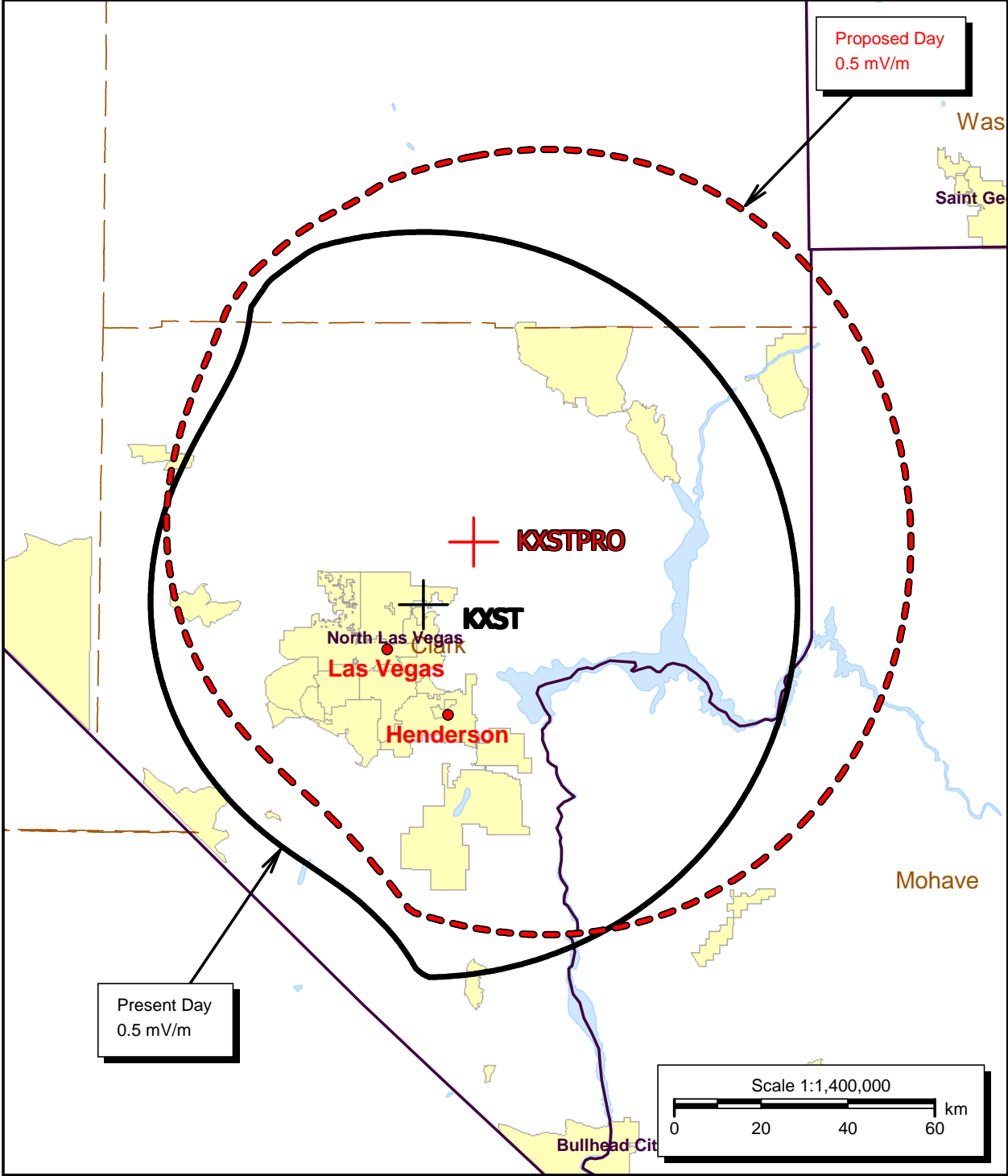
FIGURE 20



PRESENT AND PROPOSED 2.0 MV/M  
DAYTIME COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-N  
SEPTEMBER, 2023



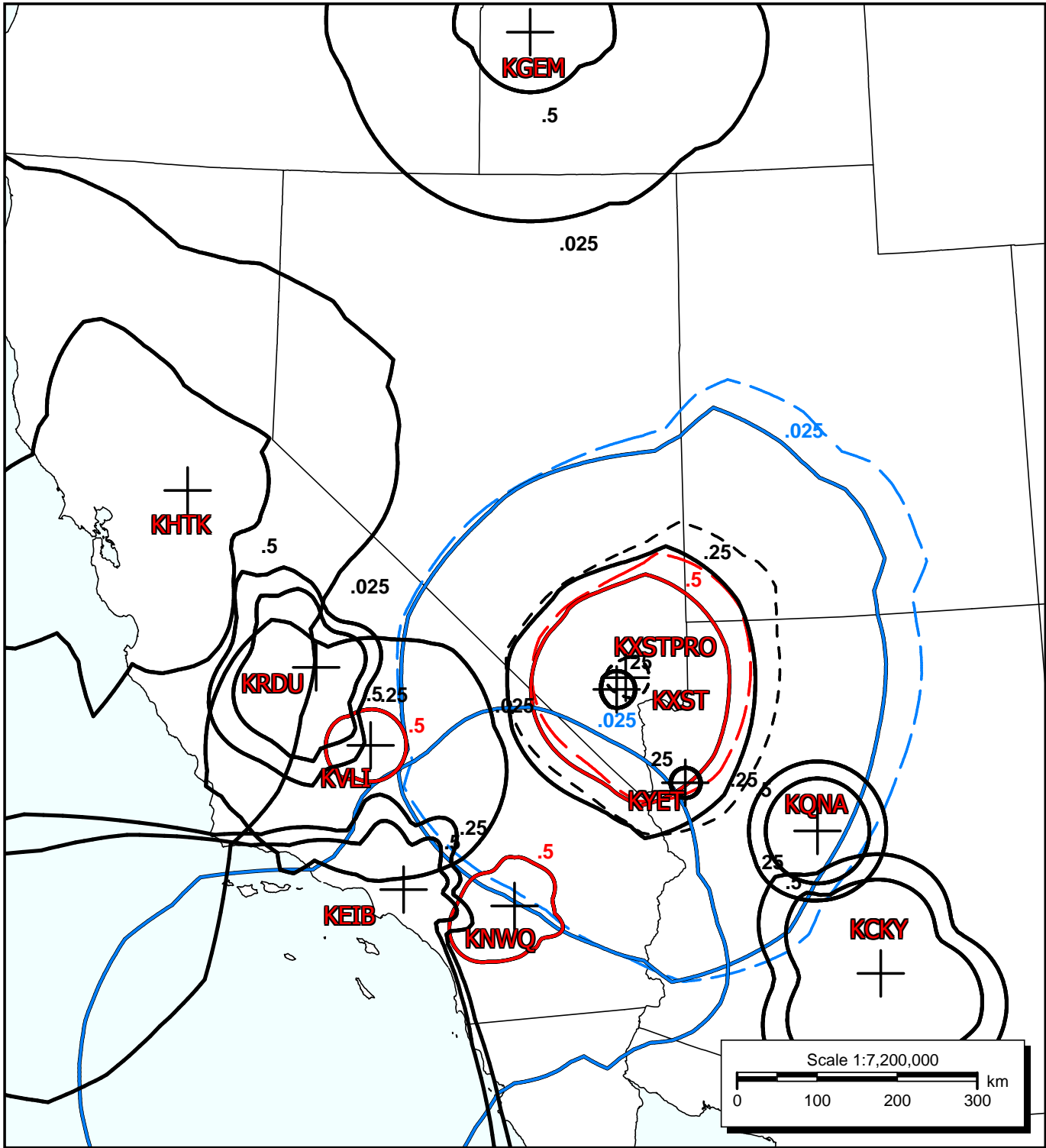
FIGURE 21



PRESENT AND PROPOSED 0.5 MV/M  
DAYTIME COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-N  
SEPTEMBER, 2023



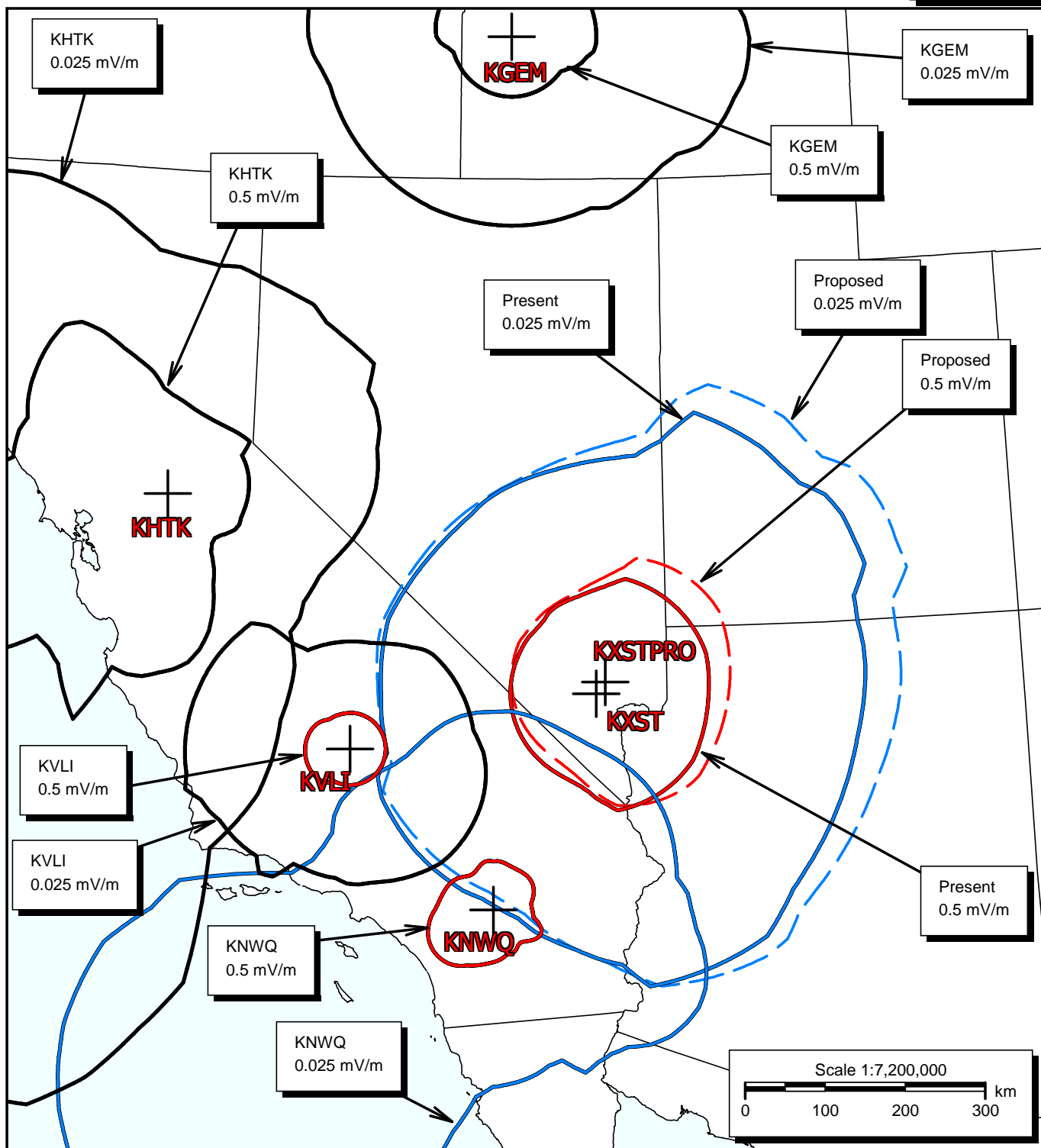
FIGURE 22



DAYTIME ALLOCATION STUDY  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023

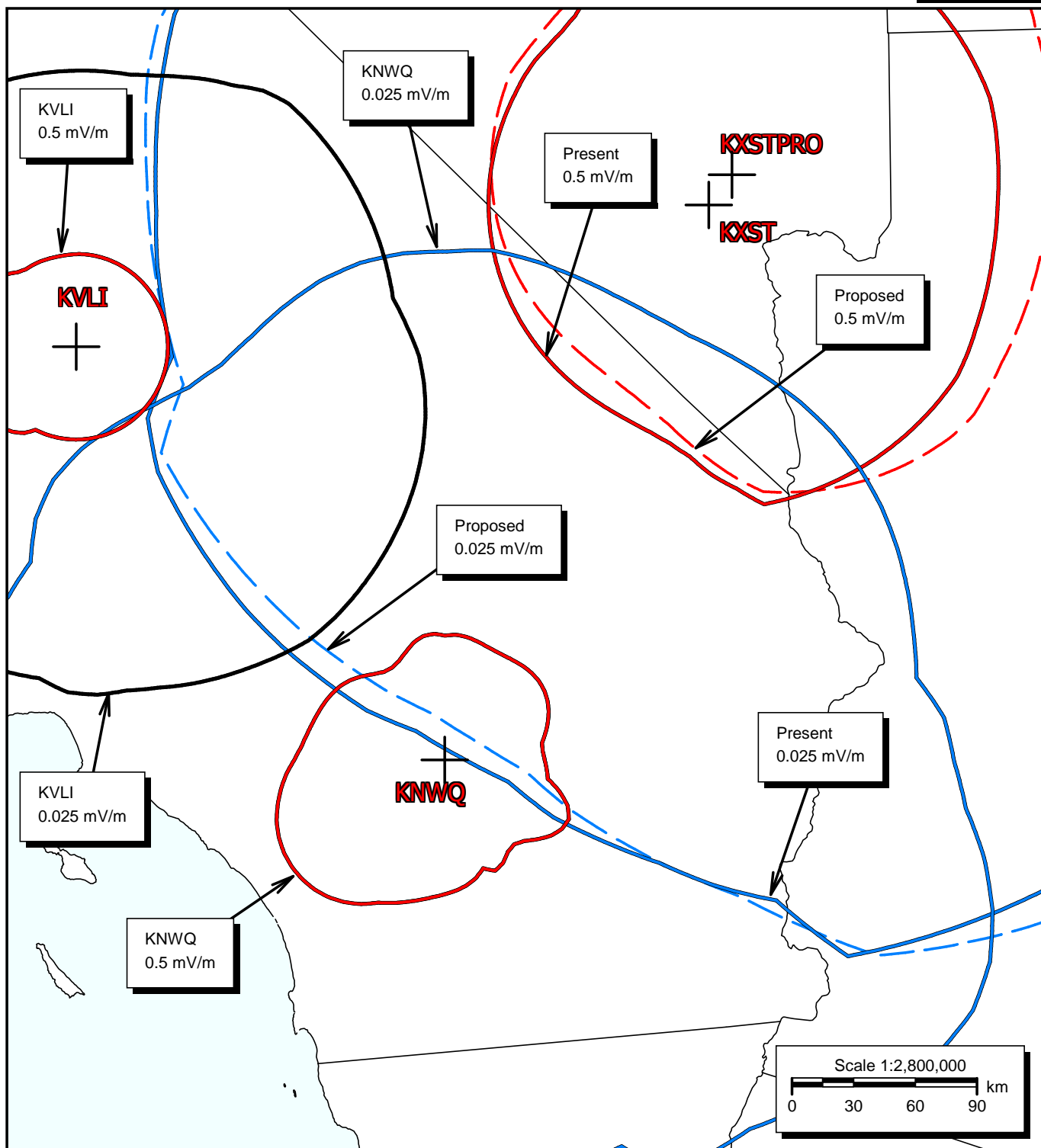


FIGURE 22A



DAYTIME ALLOCATION STUDY  
CO-CHANNEL STATIONS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023

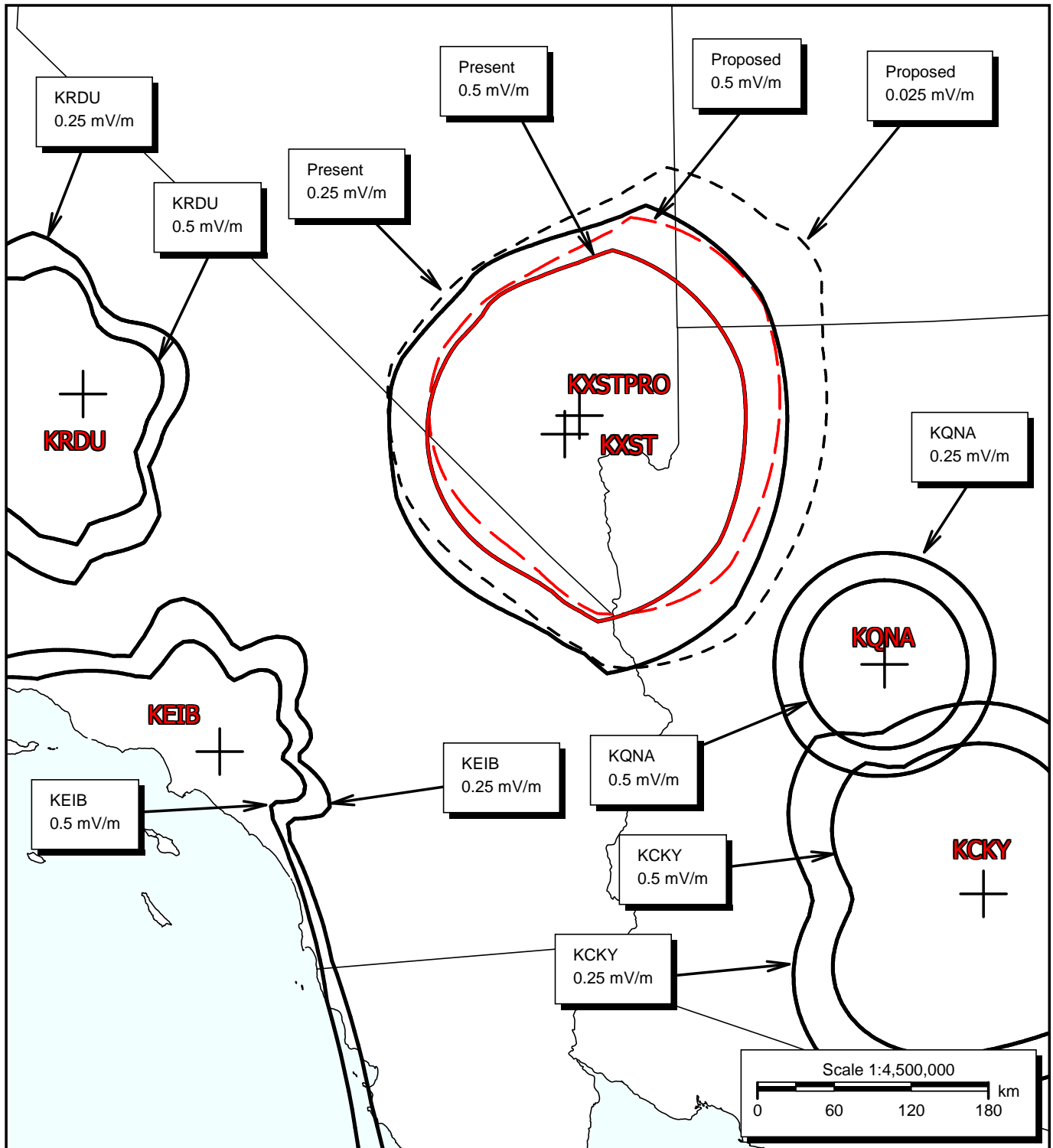
FIGURE 22B



DAYTIME ALLOCATION STUDY  
CO-CHANNEL STATIONS (EXPANDED)  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023



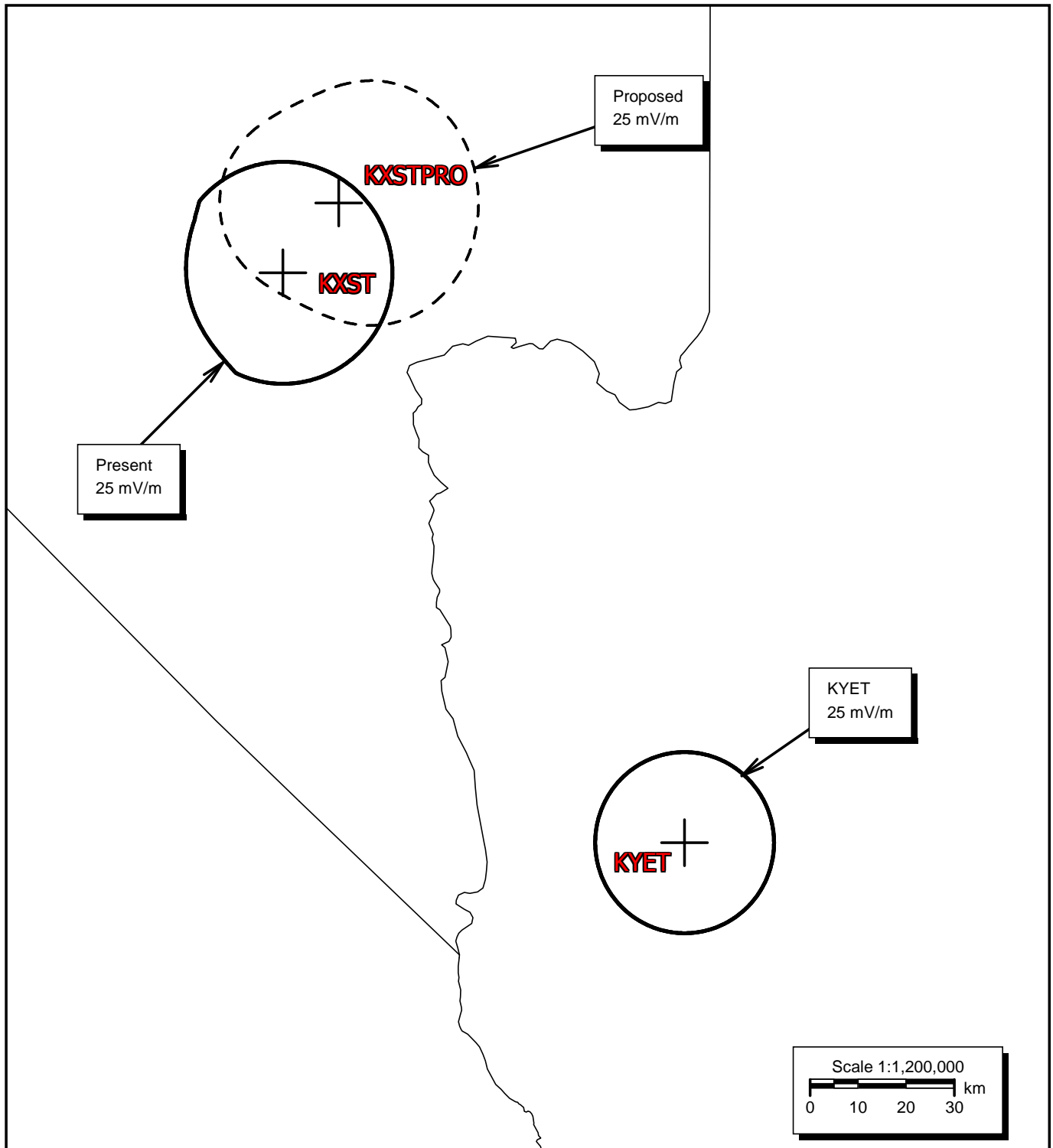
FIGURE 22C



DAYTIME ALLOCATION STUDY  
FIRST-ADJACENT CHANNEL STATIONS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023

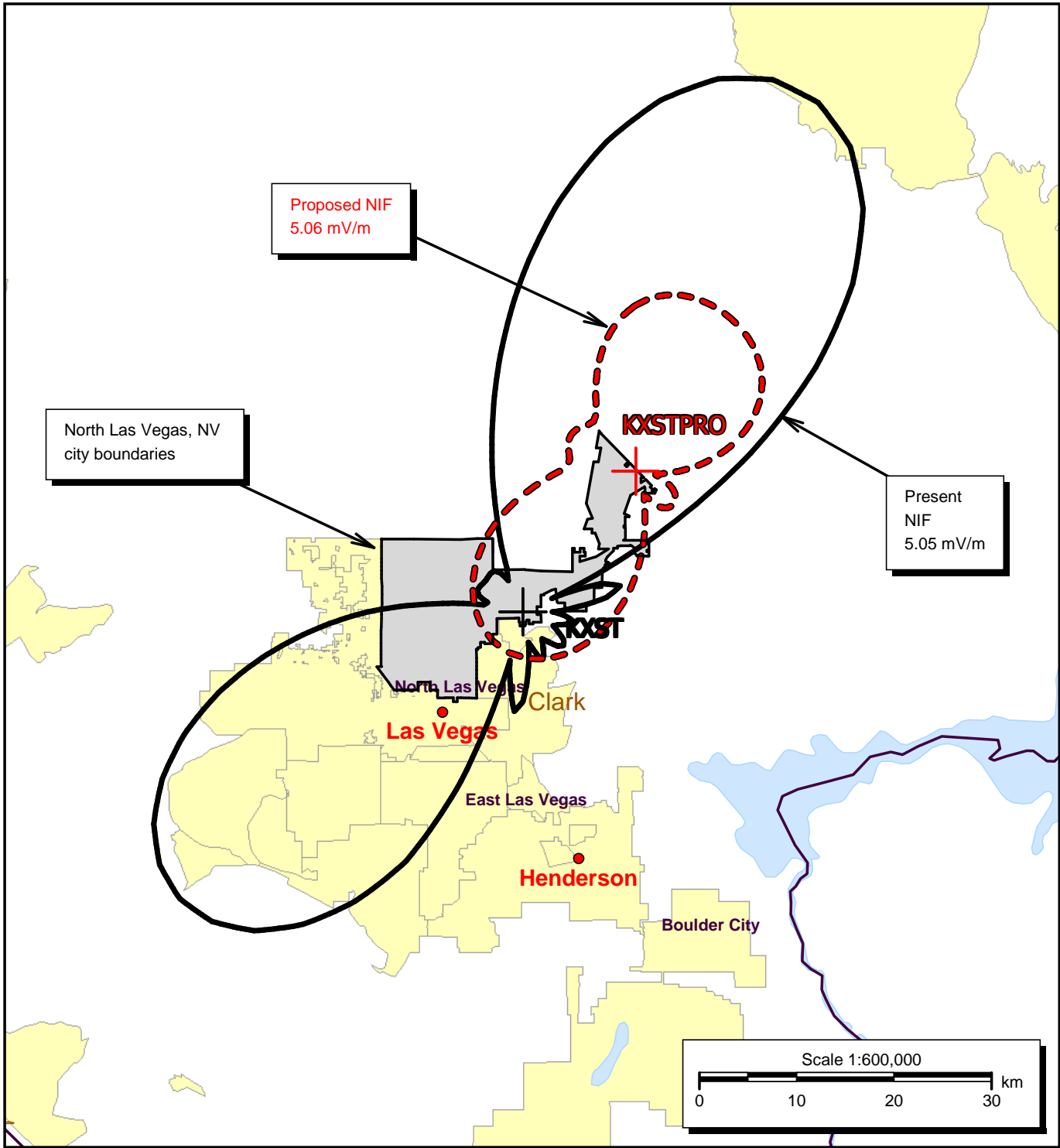


FIGURE 22D



DAYTIME ALLOCATION STUDY  
CO-CHANNEL STATIONS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023

FIGURE 23



PRESENT AND PROPOSED NIGHTTIME  
INTERFERENCE-FREE COVERAGE CONTOURS  
KXST - NORTH LAS VEGAS, NEVADA  
1140 KHZ - 12.0 KW DAY/0.1 KW NIGHT - DA-2  
SEPTEMBER, 2023



# Night Allocation Protection Report

Call: KXSTPRO  
 Freq: 1140 kHz  
 NORTH LAS VEGAS, NV, US  
 Hours: N  
 Lat: 36-23-53 N [NAD27]  
 Lng: 114-54-57 W  
 Power: 0.1 kW  
 Theo RMS: 96.22 mV/m @ 1km @ 0.1 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	122.1	0	0	0.0	0.0	0.0	0.0
2	0.860	-8.5	200.5	302.0	122.1	0	0	0.0	0.0	0.0	0.0
3	0.294	105.5	122.1	90.0	122.1	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (0)	MX	NL	EL COLORADO	14.05	0.500	178.00S	28.80	149.20
XEMR/O (5)	MX	NL	EL COLORADO	13.87	0.500	180.29S	28.83	151.46
XEMR/O (10)	MX	NL	EL COLORADO	13.71	0.500	182.29S	28.88	153.41
XEMR/O (15)	MX	NL	EL COLORADO	13.60	0.500	183.83S	28.91	154.91
XEMR/O (20)	MX	NL	EL COLORADO	13.54	0.500	184.63S	28.92	155.71
XEMR/O (25)	MX	NL	EL COLORADO	13.51	0.500	185.04S	28.90	156.14
XEMR/O (30)	MX	NL	EL COLORADO	13.47	0.500	185.53S	28.88	156.65
XEMR/O (35)	MX	NL	EL COLORADO	13.43	0.500	186.18S	28.86	157.32
XEMR/O (40)	MX	NL	EL COLORADO	13.37	0.500	186.92S	28.87	158.05
XEMR/O (45)	MX	NL	EL COLORADO	13.32	0.500	187.67S	28.87	158.80
XEMR/O (50)	MX	NL	EL COLORADO	13.27	0.500	188.40S	28.88	159.52
XEMR/O (55)	MX	NL	EL COLORADO	13.22	0.500	189.09S	28.89	160.21
XEMR/O (60)	MX	NL	EL COLORADO	13.18	0.500	189.70S	28.90	160.80
XEMR/O (65)	MX	NL	EL COLORADO	13.15	0.500	190.17S	28.92	161.25
XEMR/O (70)	MX	NL	EL COLORADO	13.12	0.500	190.49S	28.94	161.55
XEMR/O (75)	MX	NL	EL COLORADO	13.10	0.500	190.89S	28.96	161.93
XEMR/O (80)	MX	NL	EL COLORADO	13.03	0.500	191.93S	28.95	162.98
XEMR/O (85)	MX	NL	EL COLORADO	12.91	0.500	193.62S	28.93	164.69
XEMR/O (90)	MX	NL	EL COLORADO	12.78	0.500	195.69S	28.91	166.78
XEMR/O (95)	MX	NL	EL COLORADO	12.62	0.500	198.04S	28.90	169.14
XEMR/O (100)	MX	NL	EL COLORADO	12.46	0.500	200.60S	28.90	171.70
XEMR/O (105)	MX	NL	EL COLORADO	11.16	0.500	223.99S	28.65	195.34
XEMR/O (110)	MX	NL	EL COLORADO	10.17	0.500	245.89S	28.55	217.34
XEMR/O (115)	MX	NL	EL COLORADO	8.82	0.534	302.64s	28.42	274.22
XEMR/O (120)	MX	NL	EL COLORADO	8.64	0.616	356.78s	28.64	328.15
XEMR/O (125)	MX	NL	EL COLORADO	8.44	0.705	417.46s	28.85	388.61
XEMR/O (130)	MX	NL	EL COLORADO	8.23	0.799	485.47s	29.06	456.42
XEMR/O (135)	MX	NL	EL COLORADO	7.98	0.892	558.84s	29.26	529.58
XEMR/O (140)	MX	NL	EL COLORADO	3.86	0.500	647.07S	29.69	617.38
XEMR/O (145)	MX	NL	EL COLORADO	3.69	0.500	677.92S	29.91	648.01
XEMR/O (150)	MX	NL	EL COLORADO	3.57	0.500	699.62S	29.94	669.69

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (155)	MX	NL	EL COLORADO	3.62	0.538	743.69s	29.78	713.91
XEMR/O (160)	MX	NL	EL COLORADO	3.71	0.582	783.94s	29.46	754.48
XEMR/O (165)	MX	NL	EL COLORADO	3.96	0.672	848.34s	29.06	819.28
XEMR/O (170)	MX	NL	EL COLORADO	4.25	0.767	902.40s	28.58	873.81
XEMR/O (175)	MX	NL	EL COLORADO	4.60	0.865	939.73s	28.09	911.64
XEMR/O (180)	MX	NL	EL COLORADO	4.95	0.953	962.44s	27.53	934.92
XEMR/O (185)	MX	NL	EL COLORADO	5.33	1.028	963.67s	26.91	936.76
XEMR/O (190)	MX	NL	EL COLORADO	5.74	1.087	946.07s	26.22	919.86
XEMR/O (195)	MX	NL	EL COLORADO	6.34	1.170	922.72s	25.70	897.02
XEMR/O (200)	MX	NL	EL COLORADO	6.67	1.183	887.02s	24.73	862.29
XEMR/O (205)	MX	NL	EL COLORADO	7.00	1.185	845.94s	23.65	822.29
XEMR/O (210)	MX	NL	EL COLORADO	7.67	1.217	793.13s	22.86	770.27
XEMR/O (215)	MX	NL	EL COLORADO	8.37	1.235	737.96s	22.00	715.95
XEMR/O (220)	MX	NL	EL COLORADO	9.20	1.267	688.77s	21.43	667.35
XEMR/O (225)	MX	NL	EL COLORADO	10.22	1.304	638.12s	21.14	616.98
XEMR/O (230)	MX	NL	EL COLORADO	11.47	1.324	577.33s	20.78	556.54
XEMR/O (235)	MX	NL	EL COLORADO	12.92	1.331	515.11s	20.38	494.73
XEMR/O (240)	MX	NL	EL COLORADO	14.80	1.430	482.92s	21.94	460.97
XEMR/O (245)	MX	NL	EL COLORADO	16.71	1.494	447.01s	23.01	424.00
XEMR/O (250)	MX	NL	EL COLORADO	18.91	1.457	385.16s	22.58	362.58
XEMR/O (255)	MX	NL	EL COLORADO	22.38	0.917	204.96s	13.94	191.02
XEMR/O (260)	MX	NL	EL COLORADO	26.95	0.860	159.56s	15.06	144.50
XEMR/O (265)	MX	NL	EL COLORADO	32.71	0.721	110.23s	21.57	88.67
XEMR/O (270)	MX	NL	EL COLORADO	40.00	0.649	81.11s	26.46	54.64
XEMR/O (275)	MX	NL	EL COLORADO	48.26	0.623	64.58s	25.52	39.06
XEMR/O (280)	MX	NL	EL COLORADO	60.05	0.500	41.63S	38.74	2.89
XEMR/O (285)	MX	NL	EL COLORADO	70.98	0.500	35.22S	29.08	6.14
XEMR/O (290)	MX	NL	EL COLORADO	81.73	0.500	30.59S	18.38	12.21
XEMR/O (295)	MX	NL	EL COLORADO	89.60	0.500	29.31E	13.81	15.50
XEMR/O (300)	MX	NL	EL COLORADO	94.94	0.500	26.33S	18.76	7.57
XEMR/O (305)	MX	NL	EL COLORADO	95.70	0.500	26.12S	23.42	2.71
XEMR/O (310)	MX	NL	EL COLORADO	83.00	0.564	33.95s	25.87	8.08
XEMR/O (315)	MX	NL	EL COLORADO	80.27	0.527	32.84s	24.89	7.94
XEMR/O (320)	MX	NL	EL COLORADO	53.40	0.647	60.62s	25.90	34.72
XEMR/O (325)	MX	NL	EL COLORADO	33.42	0.696	104.19s	26.99	77.20
XEMR/O (330)	MX	NL	EL COLORADO	34.42	0.588	85.43s	25.88	59.55
XEMR/O (335)	MX	NL	EL COLORADO	32.79	0.500	76.24S	25.03	51.21
XEMR/O (340)	MX	NL	EL COLORADO	21.66	0.500	115.44S	27.16	88.28
XEMR/O (345)	MX	NL	EL COLORADO	16.49	0.500	151.56S	28.23	123.33
XEMR/O (350)	MX	NL	EL COLORADO	14.47	0.500	172.82S	28.75	144.07
XEMR/O (355)	MX	NL	EL COLORADO	14.25	0.500	175.49S	28.78	146.71
XEMR/O (0)	MX	NL	SAN NICOLAS DE	16.46	0.500	151.85S	27.95	123.90
XEMR/O (5)	MX	NL	SAN NICOLAS DE	14.79	0.500	169.08S	28.70	140.39
XEMR/O (10)	MX	NL	SAN NICOLAS DE	14.60	0.500	171.24S	28.73	142.50
XEMR/O (15)	MX	NL	SAN NICOLAS DE	14.44	0.500	173.09S	28.76	144.33
XEMR/O (20)	MX	NL	SAN NICOLAS DE	14.31	0.500	174.65S	28.79	145.86
XEMR/O (25)	MX	NL	SAN NICOLAS DE	14.21	0.500	175.91S	28.82	147.09
XEMR/O (30)	MX	NL	SAN NICOLAS DE	14.13	0.500	176.92S	28.83	148.09
XEMR/O (35)	MX	NL	SAN NICOLAS DE	14.06	0.500	177.79S	28.82	148.97
XEMR/O (40)	MX	NL	SAN NICOLAS DE	13.99	0.500	178.65S	28.80	149.85

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (45)	MX	NL	SAN NICOLAS DE	13.92	0.500	179.66S	28.76	150.89
XEMR/O (50)	MX	NL	SAN NICOLAS DE	13.82	0.500	180.90S	28.73	152.17
XEMR/O (55)	MX	NL	SAN NICOLAS DE	13.70	0.500	182.47S	28.69	153.78
XEMR/O (60)	MX	NL	SAN NICOLAS DE	13.56	0.500	184.37S	28.64	155.73
XEMR/O (65)	MX	NL	SAN NICOLAS DE	12.69	0.500	197.03S	27.74	169.28
XEMR/O (70)	MX	NL	SAN NICOLAS DE	12.21	0.521	213.20s	27.55	185.65
XEMR/O (75)	MX	NL	SAN NICOLAS DE	11.68	0.554	236.91s	27.41	209.50
XEMR/O (80)	MX	NL	SAN NICOLAS DE	11.21	0.596	266.04s	27.37	238.67
XEMR/O (85)	MX	NL	SAN NICOLAS DE	10.22	0.649	317.52s	26.94	290.58
XEMR/O (90)	MX	NL	SAN NICOLAS DE	9.46	0.708	374.23s	26.73	347.50
XEMR/O (95)	MX	NL	SAN NICOLAS DE	9.35	0.782	417.90s	27.15	390.75
XEMR/O (100)	MX	NL	SAN NICOLAS DE	9.24	0.853	461.52s	27.52	434.00
XEMR/O (105)	MX	NL	SAN NICOLAS DE	9.14	0.926	506.64s	27.85	478.80
XEMR/O (110)	MX	NL	SAN NICOLAS DE	9.04	0.996	550.80s	28.14	522.66
XEMR/O (115)	MX	NL	SAN NICOLAS DE	8.85	1.067	602.90s	28.38	574.52
XEMR/O (120)	MX	NL	SAN NICOLAS DE	3.66	0.500	683.52S	27.15	656.37
XEMR/O (125)	MX	NL	SAN NICOLAS DE	3.52	0.500	710.44S	28.05	682.39
XEMR/O (130)	MX	NL	SAN NICOLAS DE	3.42	0.500	731.37S	28.80	702.57
XEMR/O (135)	MX	NL	SAN NICOLAS DE	3.35	0.500	746.90S	29.37	717.53
XEMR/O (140)	MX	NL	SAN NICOLAS DE	3.30	0.500	757.72S	29.75	727.97
XEMR/O (145)	MX	NL	SAN NICOLAS DE	3.28	0.500	762.80S	29.93	732.87
XEMR/O (150)	MX	NL	SAN NICOLAS DE	3.52	0.594	842.94s	29.92	813.01
XEMR/O (155)	MX	NL	SAN NICOLAS DE	3.63	0.628	864.87s	29.75	835.13
XEMR/O (160)	MX	NL	SAN NICOLAS DE	3.73	0.647	867.32s	29.39	837.93
XEMR/O (165)	MX	NL	SAN NICOLAS DE	4.01	0.722	900.22s	28.97	871.25
XEMR/O (170)	MX	NL	SAN NICOLAS DE	4.33	0.800	924.49s	28.48	896.01
XEMR/O (175)	MX	NL	SAN NICOLAS DE	4.69	0.872	929.87s	27.96	901.91
XEMR/O (180)	MX	NL	SAN NICOLAS DE	5.05	0.933	924.56s	27.37	897.19
XEMR/O (185)	MX	NL	SAN NICOLAS DE	5.45	0.980	899.61s	26.71	872.89
XEMR/O (190)	MX	NL	SAN NICOLAS DE	5.93	1.029	867.26s	26.06	841.20
XEMR/O (195)	MX	NL	SAN NICOLAS DE	6.46	1.072	829.56s	25.39	804.16
XEMR/O (200)	MX	NL	SAN NICOLAS DE	6.78	1.069	788.51s	24.37	764.15
XEMR/O (205)	MX	NL	SAN NICOLAS DE	7.23	1.076	743.79s	23.38	720.41
XEMR/O (210)	MX	NL	SAN NICOLAS DE	7.92	1.097	692.52s	22.57	669.95
XEMR/O (215)	MX	NL	SAN NICOLAS DE	8.63	1.108	642.20s	21.67	620.53
XEMR/O (220)	MX	NL	SAN NICOLAS DE	9.57	1.148	600.06s	21.32	578.74
XEMR/O (225)	MX	NL	SAN NICOLAS DE	10.65	1.176	552.35s	21.03	531.31
XEMR/O (230)	MX	NL	SAN NICOLAS DE	11.99	1.192	497.30s	20.64	476.66
XEMR/O (235)	MX	NL	SAN NICOLAS DE	13.49	1.200	444.93s	20.23	424.70
XEMR/O (240)	MX	NL	SAN NICOLAS DE	15.61	1.361	436.10s	23.23	412.87
XEMR/O (245)	MX	NL	SAN NICOLAS DE	17.48	1.347	385.07s	22.84	362.23
XEMR/O (250)	MX	NL	SAN NICOLAS DE	19.82	1.319	332.89s	22.41	310.48
XEMR/O (255)	MX	NL	SAN NICOLAS DE	23.36	0.829	177.35s	14.40	162.95
XEMR/O (260)	MX	NL	SAN NICOLAS DE	28.00	0.783	139.84s	15.89	123.95
XEMR/O (265)	MX	NL	SAN NICOLAS DE	33.90	0.661	97.45s	23.44	74.01
XEMR/O (270)	MX	NL	SAN NICOLAS DE	41.15	0.628	76.35s	25.11	51.23
XEMR/O (275)	MX	NL	SAN NICOLAS DE	49.67	0.586	58.95s	27.12	31.82
XEMR/O (280)	MX	NL	SAN NICOLAS DE	60.99	0.500	40.99S	35.67	5.31
XEMR/O (285)	MX	NL	SAN NICOLAS DE	71.82	0.500	34.81S	27.22	7.60
XEMR/O (290)	MX	NL	SAN NICOLAS DE	82.45	0.500	30.32S	17.82	12.50
XEMR/O (295)	MX	NL	SAN NICOLAS DE	90.76	0.500	29.24E	13.77	15.46

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (300)	MX	NL	SAN NICOLAS DE	97.22	0.500	25.71S	18.13	7.58
XEMR/O (305)	MX	NL	SAN NICOLAS DE	96.69	0.520	26.88s	23.25	3.63
XEMR/O (310)	MX	NL	SAN NICOLAS DE	83.09	0.604	36.33s	25.87	10.46
XEMR/O (315)	MX	NL	SAN NICOLAS DE	80.70	0.578	35.81s	24.96	10.86
XEMR/O (320)	MX	NL	SAN NICOLAS DE	55.65	0.710	63.81s	25.78	38.03
XEMR/O (325)	MX	NL	SAN NICOLAS DE	33.70	0.794	117.89s	27.09	90.80
XEMR/O (330)	MX	NL	SAN NICOLAS DE	34.31	0.706	102.86s	26.15	76.72
XEMR/O (335)	MX	NL	SAN NICOLAS DE	33.31	0.628	94.25s	25.24	69.01
XEMR/O (340)	MX	NL	SAN NICOLAS DE	31.21	0.559	89.61s	24.59	65.01
XEMR/O (345)	MX	NL	SAN NICOLAS DE	28.47	0.500	87.81S	24.31	63.50
XEMR/O (350)	MX	NL	SAN NICOLAS DE	22.27	0.500	112.26S	26.11	86.15
XEMR/O (355)	MX	NL	SAN NICOLAS DE	18.23	0.500	137.12S	27.38	109.74
KHTK	US	CA	SACRAMENTO	95.94	0.990	51.61	41.43	10.17
50% = 3.482, 25% = 3.978; KRDU=2.91 KGEM=1.92 WRVA=1.65 KEIB=0.99								
XEMR1/A (0)	MX	NL	MONTERREY	15.04	0.500	166.26S	28.74	137.52
XEMR1/A (5)	MX	NL	MONTERREY	14.83	0.500	168.60S	28.75	139.85
XEMR1/A (10)	MX	NL	MONTERREY	14.63	0.500	170.90S	28.78	142.12
XEMR1/A (15)	MX	NL	MONTERREY	14.45	0.500	173.07S	28.81	144.26
XEMR1/A (20)	MX	NL	MONTERREY	14.28	0.500	175.07S	28.85	146.21
XEMR1/A (25)	MX	NL	MONTERREY	14.13	0.500	176.88S	28.92	147.95
XEMR1/A (30)	MX	NL	MONTERREY	14.01	0.500	178.46S	29.00	149.46
XEMR1/A (35)	MX	NL	MONTERREY	13.92	0.500	179.58S	29.07	150.51
XEMR1/A (40)	MX	NL	MONTERREY	13.90	0.500	179.87S	29.01	150.86
XEMR1/A (45)	MX	NL	MONTERREY	13.85	0.500	180.57S	28.95	151.62
XEMR1/A (50)	MX	NL	MONTERREY	13.77	0.500	181.55S	28.93	152.62
XEMR1/A (55)	MX	NL	MONTERREY	13.69	0.500	182.64S	28.91	153.73
XEMR1/A (60)	MX	NL	MONTERREY	13.61	0.500	183.74S	28.91	154.83
XEMR1/A (65)	MX	NL	MONTERREY	13.53	0.500	184.73S	28.92	155.81
XEMR1/A (70)	MX	NL	MONTERREY	13.48	0.500	185.47S	28.95	156.52
XEMR1/A (75)	MX	NL	MONTERREY	13.48	0.500	185.47S	29.00	156.48
XEMR1/A (80)	MX	NL	MONTERREY	13.60	0.500	183.80S	29.10	154.70
XEMR1/A (85)	MX	NL	MONTERREY	13.63	0.500	183.47S	29.13	154.35
XEMR1/A (90)	MX	NL	MONTERREY	13.68	0.500	182.78S	29.16	153.63
XEMR1/A (95)	MX	NL	MONTERREY	13.68	0.500	182.79S	29.17	153.62
XEMR1/A (100)	MX	NL	MONTERREY	13.55	0.500	184.51S	29.15	155.37
XEMR1/A (105)	MX	NL	MONTERREY	13.43	0.500	186.15S	29.14	157.01
XEMR1/A (110)	MX	NL	MONTERREY	13.32	0.500	187.69S	29.15	158.54
XEMR1/A (115)	MX	NL	MONTERREY	13.22	0.500	189.14S	29.15	159.99
XEMR1/A (120)	MX	NL	MONTERREY	13.12	0.500	190.51S	29.17	161.34
XEMR1/A (125)	MX	NL	MONTERREY	13.04	0.500	191.77S	29.18	162.59
XEMR1/A (130)	MX	NL	MONTERREY	12.96	0.500	192.90S	29.22	163.69
XEMR1/A (135)	MX	NL	MONTERREY	12.89	0.500	193.88S	29.24	164.64
XEMR1/A (140)	MX	NL	MONTERREY	12.84	0.500	194.67S	29.27	165.40
XEMR1/A (145)	MX	NL	MONTERREY	12.80	0.500	195.25S	29.30	165.95
XEMR1/A (150)	MX	NL	MONTERREY	6.65	0.500	375.70S	29.89	345.81
XEMR1/A (155)	MX	NL	MONTERREY	5.98	0.500	418.07S	29.95	388.13
XEMR1/A (160)	MX	NL	MONTERREY	5.68	0.500	440.37S	29.85	410.52
XEMR1/A (165)	MX	NL	MONTERREY	5.58	0.500	448.41S	29.62	418.79
XEMR1/A (170)	MX	NL	MONTERREY	5.55	0.500	450.57S	29.24	421.34

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR1/A (175)	MX	NL	MONTERREY	5.59	0.500	446.94S	28.71	418.23
XEMR1/A (180)	MX	NL	MONTERREY	5.72	0.500	436.91S	28.07	408.84
XEMR1/A (185)	MX	NL	MONTERREY	5.95	0.500	420.26S	27.32	392.94
XEMR1/A (190)	MX	NL	MONTERREY	6.25	0.500	399.76S	26.50	373.26
XEMR1/A (195)	MX	NL	MONTERREY	6.57	0.500	380.31S	25.63	354.69
XEMR1/A (200)	MX	NL	MONTERREY	6.90	0.500	362.19S	24.72	337.47
XEMR1/A (205)	MX	NL	MONTERREY	7.41	0.500	337.49S	23.83	313.66
XEMR1/A (210)	MX	NL	MONTERREY	8.04	0.500	310.78S	22.97	287.81
XEMR1/A (215)	MX	NL	MONTERREY	8.75	0.500	285.57S	22.20	263.37
XEMR1/A (220)	MX	NL	MONTERREY	9.59	0.500	260.82S	21.52	239.30
XEMR1/A (225)	MX	NL	MONTERREY	10.59	0.503	237.43s	21.05	216.38
XEMR1/A (230)	MX	NL	MONTERREY	11.90	0.505	212.13s	20.66	191.46
XEMR1/A (235)	MX	NL	MONTERREY	13.37	0.506	189.10s	20.26	168.84
XEMR1/A (240)	MX	NL	MONTERREY	15.44	0.573	185.52s	23.26	162.26
XEMR1/A (245)	MX	NL	MONTERREY	17.25	0.568	164.59s	22.90	141.69
XEMR1/A (250)	MX	NL	MONTERREY	19.49	0.562	144.24s	22.48	121.77
XEMR1/A (255)	MX	NL	MONTERREY	22.77	0.500	109.81S	19.04	90.77
XEMR1/A (260)	MX	NL	MONTERREY	26.24	0.500	95.29S	19.05	76.23
XEMR1/A (265)	MX	NL	MONTERREY	30.06	0.500	83.16S	19.28	63.88
XEMR1/A (270)	MX	NL	MONTERREY	34.44	0.500	72.60S	19.69	52.91
XEMR1/A (275)	MX	NL	MONTERREY	39.22	0.500	63.75S	20.44	43.31
XEMR1/A (280)	MX	NL	MONTERREY	44.32	0.500	56.41S	21.42	34.99
XEMR1/A (285)	MX	NL	MONTERREY	49.36	0.500	50.64S	22.76	27.88
XEMR1/A (290)	MX	NL	MONTERREY	54.78	0.500	45.64S	24.25	21.39
XEMR1/A (295)	MX	NL	MONTERREY	58.90	0.500	42.45S	25.69	16.75
XEMR1/A (300)	MX	NL	MONTERREY	62.40	0.500	40.06S	26.77	13.29
XEMR1/A (305)	MX	NL	MONTERREY	64.56	0.500	38.72S	27.40	11.33
XEMR1/A (310)	MX	NL	MONTERREY	64.70	0.500	38.64S	27.31	11.32
XEMR1/A (315)	MX	NL	MONTERREY	62.81	0.500	39.80S	26.70	13.11
XEMR1/A (320)	MX	NL	MONTERREY	59.24	0.500	42.20S	25.59	16.61
XEMR1/A (325)	MX	NL	MONTERREY	33.64	0.606	90.11s	27.28	62.83
XEMR1/A (330)	MX	NL	MONTERREY	34.11	0.571	83.76s	26.40	57.37
XEMR1/A (335)	MX	NL	MONTERREY	33.94	0.533	78.53s	25.33	53.20
XEMR1/A (340)	MX	NL	MONTERREY	31.23	0.500	80.06S	24.86	55.20
XEMR1/A (345)	MX	NL	MONTERREY	15.66	0.500	159.67S	28.79	130.88
XEMR1/A (350)	MX	NL	MONTERREY	15.46	0.500	161.73S	28.76	132.98
XEMR1/A (355)	MX	NL	MONTERREY	15.25	0.500	163.95S	28.74	135.21
XEMR/O (0)	MX	NL	EL COLORADO	13.91	0.500	179.76S	28.86	150.91
XEMR/O (5)	MX	NL	EL COLORADO	13.76	0.500	181.65S	28.89	152.75
XEMR/O (10)	MX	NL	EL COLORADO	13.64	0.500	183.30S	28.93	154.37
XEMR/O (15)	MX	NL	EL COLORADO	13.55	0.500	184.57S	28.95	155.62
XEMR/O (20)	MX	NL	EL COLORADO	13.50	0.500	185.22S	28.96	156.26
XEMR/O (25)	MX	NL	EL COLORADO	13.47	0.500	185.54S	28.94	156.59
XEMR/O (30)	MX	NL	EL COLORADO	13.45	0.500	185.92S	28.92	157.00
XEMR/O (35)	MX	NL	EL COLORADO	13.41	0.500	186.44S	28.93	157.51
XEMR/O (40)	MX	NL	EL COLORADO	13.37	0.500	187.02S	28.92	158.10
XEMR/O (45)	MX	NL	EL COLORADO	13.32	0.500	187.62S	28.92	158.70
XEMR/O (50)	MX	NL	EL COLORADO	13.28	0.500	188.21S	28.92	159.29
XEMR/O (55)	MX	NL	EL COLORADO	13.24	0.500	188.78S	28.93	159.85
XEMR/O (60)	MX	NL	EL COLORADO	13.21	0.500	189.27S	28.94	160.33



Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (65)	MX	NL	EL COLORADO	13.18	0.500	189.65S	28.96	160.69
XEMR/O (70)	MX	NL	EL COLORADO	13.16	0.500	189.91S	28.97	160.93
XEMR/O (75)	MX	NL	EL COLORADO	13.14	0.500	190.22S	28.99	161.24
XEMR/O (80)	MX	NL	EL COLORADO	13.08	0.500	191.07S	28.98	162.09
XEMR/O (85)	MX	NL	EL COLORADO	12.99	0.500	192.45S	28.97	163.48
XEMR/O (90)	MX	NL	EL COLORADO	12.88	0.500	194.12S	28.95	165.17
XEMR/O (95)	MX	NL	EL COLORADO	12.76	0.500	195.99S	28.94	167.05
XEMR/O (100)	MX	NL	EL COLORADO	12.62	0.500	198.03S	28.94	169.09
XEMR/O (105)	MX	NL	EL COLORADO	12.49	0.500	200.18S	28.95	171.23
XEMR/O (110)	MX	NL	EL COLORADO	12.35	0.500	202.42S	28.96	173.45
XEMR/O (115)	MX	NL	EL COLORADO	12.21	0.500	204.70S	28.98	175.71
XEMR/O (120)	MX	NL	EL COLORADO	12.08	0.500	206.96S	29.02	177.94
XEMR/O (125)	MX	NL	EL COLORADO	11.95	0.500	209.13S	29.06	180.07
XEMR/O (130)	MX	NL	EL COLORADO	8.23	0.505	307.04s	29.06	277.99
XEMR/O (135)	MX	NL	EL COLORADO	7.98	0.564	353.46s	29.26	324.20
XEMR/O (140)	MX	NL	EL COLORADO	7.66	0.624	407.38s	29.46	377.92
XEMR/O (145)	MX	NL	EL COLORADO	7.26	0.675	464.61s	29.66	434.95
XEMR/O (150)	MX	NL	EL COLORADO	4.59	0.500	544.37S	29.94	514.42
XEMR/O (155)	MX	NL	EL COLORADO	4.44	0.500	563.01S	29.90	533.11
XEMR/O (160)	MX	NL	EL COLORADO	4.35	0.500	574.71S	29.67	545.03
XEMR/O (165)	MX	NL	EL COLORADO	4.31	0.500	579.41S	29.26	550.15
XEMR/O (170)	MX	NL	EL COLORADO	4.33	0.500	577.84S	28.65	549.19
XEMR/O (175)	MX	NL	EL COLORADO	4.60	0.547	594.32s	28.09	566.24
XEMR/O (180)	MX	NL	EL COLORADO	4.95	0.603	608.69s	27.53	581.16
XEMR/O (185)	MX	NL	EL COLORADO	5.33	0.650	609.47s	26.91	582.56
XEMR/O (190)	MX	NL	EL COLORADO	5.74	0.687	598.34s	26.22	572.12
XEMR/O (195)	MX	NL	EL COLORADO	6.34	0.740	583.57s	25.70	557.87
XEMR/O (200)	MX	NL	EL COLORADO	6.67	0.748	560.99s	24.73	536.26
XEMR/O (205)	MX	NL	EL COLORADO	7.00	0.749	535.01s	23.65	511.36
XEMR/O (210)	MX	NL	EL COLORADO	7.67	0.770	501.61s	22.86	478.75
XEMR/O (215)	MX	NL	EL COLORADO	8.37	0.781	466.71s	22.00	444.71
XEMR/O (220)	MX	NL	EL COLORADO	9.20	0.801	435.60s	21.42	414.17
XEMR/O (225)	MX	NL	EL COLORADO	10.22	0.825	403.58s	21.14	382.43
XEMR/O (230)	MX	NL	EL COLORADO	11.47	0.837	365.13s	20.79	344.35
XEMR/O (235)	MX	NL	EL COLORADO	12.92	0.842	325.78s	20.38	305.40
XEMR/O (240)	MX	NL	EL COLORADO	14.80	0.905	305.56s	21.96	283.61
XEMR/O (245)	MX	NL	EL COLORADO	16.71	0.945	282.71s	23.01	259.70
XEMR/O (250)	MX	NL	EL COLORADO	18.91	0.922	243.60s	22.58	221.01
XEMR/O (255)	MX	NL	EL COLORADO	22.38	0.580	129.61s	13.94	115.67
XEMR/O (260)	MX	NL	EL COLORADO	26.95	0.544	100.91s	15.06	85.85
XEMR/O (265)	MX	NL	EL COLORADO	32.52	0.500	76.87S	16.98	59.89
XEMR/O (270)	MX	NL	EL COLORADO	38.86	0.500	64.34S	15.51	48.83
XEMR/O (275)	MX	NL	EL COLORADO	45.60	0.500	54.83S	14.01	40.81
XEMR/O (280)	MX	NL	EL COLORADO	52.39	0.500	47.72S	13.96	33.76
XEMR/O (285)	MX	NL	EL COLORADO	58.39	0.500	42.82S	16.49	26.33
XEMR/O (290)	MX	NL	EL COLORADO	63.14	0.500	39.59S	20.37	19.22
XEMR/O (295)	MX	NL	EL COLORADO	65.82	0.500	37.98S	24.02	13.96
XEMR/O (300)	MX	NL	EL COLORADO	65.85	0.500	37.96S	26.44	11.52
XEMR/O (305)	MX	NL	EL COLORADO	63.04	0.500	39.66S	27.51	12.14
XEMR/O (310)	MX	NL	EL COLORADO	56.49	0.500	44.25S	27.75	16.51
XEMR/O (315)	MX	NL	EL COLORADO	47.82	0.500	52.28S	27.47	24.81



Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (320)	MX	NL	EL COLORADO	34.71	0.500	72.02s	27.60	44.42
XEMR/O (325)	MX	NL	EL COLORADO	15.21	0.500	164.36S	28.90	135.46
XEMR/O (330)	MX	NL	EL COLORADO	15.02	0.500	166.41S	28.87	137.54
XEMR/O (335)	MX	NL	EL COLORADO	14.82	0.500	168.65S	28.84	139.81
XEMR/O (340)	MX	NL	EL COLORADO	14.62	0.500	170.98S	28.83	142.15
XEMR/O (345)	MX	NL	EL COLORADO	14.43	0.500	173.29S	28.82	144.47
XEMR/O (350)	MX	NL	EL COLORADO	14.24	0.500	175.54S	28.83	146.71
XEMR/O (355)	MX	NL	EL COLORADO	14.07	0.500	177.72S	28.84	148.88
XE/A	MX	CH	NUEVO CASAS GRA	71.36	1.569	109.93	26.84	83.08
50% = 3.138, 25% = 3.799; XENVA2/A=2.50 XELIA/A=1.89 XEMR/ =1.49 WRVA=1.15 XETE1/A=1.02								
XESOS/O	MX	SO	EL SIFON	92.96	2.189	117.72	24.07	93.65
50% = 4.377, 25% = 5.043; XE/A=4.38 XENVA2/A=2.11 XELIA/A=1.35								
KGEM	US	ID	BOISE	59.65	2.784	233.32	111.56	121.76
50% = 7.237, 25% = 8.566; KHTK=7.24 KXRB=2.91 KXST=2.78 WRVA=2.19								
XEMR/O (0)	MX	NL	EL COLORADO	14.08	0.500	177.60S	28.79	148.82
XEMR/O (5)	MX	NL	EL COLORADO	13.95	0.500	179.16S	28.79	150.37
XEMR/O (10)	MX	NL	EL COLORADO	13.84	0.500	180.68S	28.81	151.87
XEMR/O (15)	MX	NL	EL COLORADO	13.73	0.500	182.12S	28.82	153.30
XEMR/O (20)	MX	NL	EL COLORADO	13.63	0.500	183.43S	28.84	154.59
XEMR/O (25)	MX	NL	EL COLORADO	13.54	0.500	184.58S	28.86	155.72
XEMR/O (30)	MX	NL	EL COLORADO	13.48	0.500	185.52S	28.88	156.65
XEMR/O (35)	MX	NL	EL COLORADO	13.42	0.500	186.29S	28.88	157.40
XEMR/O (40)	MX	NL	EL COLORADO	13.37	0.500	186.97S	28.89	158.08
XEMR/O (45)	MX	NL	EL COLORADO	13.32	0.500	187.66S	28.89	158.77
XEMR/O (50)	MX	NL	EL COLORADO	13.27	0.500	188.39S	28.88	159.51
XEMR/O (55)	MX	NL	EL COLORADO	13.21	0.500	189.18S	28.87	160.31
XEMR/O (60)	MX	NL	EL COLORADO	13.16	0.500	189.99S	28.87	161.12
XEMR/O (65)	MX	NL	EL COLORADO	13.10	0.500	190.80S	28.88	161.92
XEMR/O (70)	MX	NL	EL COLORADO	13.05	0.500	191.55S	28.88	162.67
XEMR/O (75)	MX	NL	EL COLORADO	13.00	0.500	192.23S	28.90	163.34
XEMR/O (80)	MX	NL	EL COLORADO	12.97	0.500	192.81S	28.92	163.88
XEMR/O (85)	MX	NL	EL COLORADO	12.94	0.500	193.25S	28.94	164.31
XEMR/O (90)	MX	NL	EL COLORADO	12.92	0.500	193.56S	28.96	164.59
XEMR/O (95)	MX	NL	EL COLORADO	12.90	0.500	193.73S	28.99	164.74
XEMR/O (100)	MX	NL	EL COLORADO	12.90	0.500	193.84S	29.01	164.84
XEMR/O (105)	MX	NL	EL COLORADO	12.88	0.500	194.06S	29.02	165.04
XEMR/O (110)	MX	NL	EL COLORADO	12.85	0.500	194.58S	29.04	165.55
XEMR/O (115)	MX	NL	EL COLORADO	12.79	0.500	195.45S	29.05	166.41
XEMR/O (120)	MX	NL	EL COLORADO	12.72	0.500	196.54S	29.06	167.47
XEMR/O (125)	MX	NL	EL COLORADO	12.65	0.500	197.68S	29.08	168.61
XEMR/O (130)	MX	NL	EL COLORADO	12.58	0.500	198.80S	29.11	169.69
XEMR/O (135)	MX	NL	EL COLORADO	12.51	0.500	199.82S	29.13	170.69
XEMR/O (140)	MX	NL	EL COLORADO	12.46	0.500	200.71S	29.16	171.55
XEMR/O (145)	MX	NL	EL COLORADO	12.41	0.500	201.43S	29.19	172.24
XEMR/O (150)	MX	NL	EL COLORADO	12.38	0.500	201.96S	29.23	172.73
XEMR/O (155)	MX	NL	EL COLORADO	12.36	0.500	202.28S	29.26	173.02

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/O (160)	MX	NL	EL COLORADO	12.50	0.500	199.96S	29.27	170.69
XEMR/O (165)	MX	NL	EL COLORADO	12.55	0.500	199.18S	29.29	169.89
XEMR/O (170)	MX	NL	EL COLORADO	12.58	0.500	198.72S	29.31	169.41
XEMR/O (175)	MX	NL	EL COLORADO	12.62	0.500	198.17S	29.33	168.84
XEMR/O (180)	MX	NL	EL COLORADO	12.66	0.500	197.49S	29.35	168.15
XEMR/O (185)	MX	NL	EL COLORADO	12.71	0.500	196.70S	29.37	167.33
XEMR/O (190)	MX	NL	EL COLORADO	12.77	0.500	195.80S	29.39	166.41
XEMR/O (195)	MX	NL	EL COLORADO	12.83	0.500	194.79S	29.40	165.38
XEMR/O (200)	MX	NL	EL COLORADO	12.91	0.500	193.71S	29.42	164.29
XEMR/O (205)	MX	NL	EL COLORADO	12.98	0.500	192.60S	29.43	163.16
XEMR/O (210)	MX	NL	EL COLORADO	13.06	0.500	191.38S	29.43	161.95
XEMR/O (215)	MX	NL	EL COLORADO	13.15	0.500	190.09S	29.44	160.65
XEMR/O (220)	MX	NL	EL COLORADO	13.24	0.500	188.76S	29.45	159.31
XEMR/O (225)	MX	NL	EL COLORADO	13.34	0.500	187.40S	29.45	157.95
XEMR/O (230)	MX	NL	EL COLORADO	13.44	0.500	186.00S	29.44	156.56
XEMR/O (235)	MX	NL	EL COLORADO	13.54	0.500	184.60S	29.44	155.17
XEMR/O (240)	MX	NL	EL COLORADO	13.64	0.500	183.23S	29.43	153.80
XEMR/O (245)	MX	NL	EL COLORADO	13.74	0.500	181.89S	29.42	152.47
XEMR/O (250)	MX	NL	EL COLORADO	13.84	0.500	180.60S	29.40	151.20
XEMR/O (255)	MX	NL	EL COLORADO	13.94	0.500	179.38S	29.39	149.99
XEMR/O (260)	MX	NL	EL COLORADO	14.03	0.500	178.22S	29.38	148.84
XEMR/O (265)	MX	NL	EL COLORADO	14.11	0.500	177.14S	29.36	147.78
XEMR/O (270)	MX	NL	EL COLORADO	14.21	0.500	175.92S	29.34	146.57
XEMR/O (275)	MX	NL	EL COLORADO	14.37	0.500	174.01S	29.33	144.69
XEMR/O (280)	MX	NL	EL COLORADO	14.49	0.500	172.51S	29.31	143.20
XEMR/O (285)	MX	NL	EL COLORADO	14.62	0.500	171.02S	29.29	141.73
XEMR/O (290)	MX	NL	EL COLORADO	14.72	0.500	169.78S	29.26	140.52
XEMR/O (295)	MX	NL	EL COLORADO	14.81	0.500	168.75S	29.21	139.54
XEMR/O (300)	MX	NL	EL COLORADO	14.89	0.500	167.89S	29.17	138.72
XEMR/O (305)	MX	NL	EL COLORADO	14.96	0.500	167.12S	29.13	137.98
XEMR/O (310)	MX	NL	EL COLORADO	14.96	0.500	167.08S	29.09	137.99
XEMR/O (315)	MX	NL	EL COLORADO	14.94	0.500	167.35S	29.04	138.31
XEMR/O (320)	MX	NL	EL COLORADO	14.90	0.500	167.84S	28.99	138.84
XEMR/O (325)	MX	NL	EL COLORADO	14.83	0.500	168.53S	28.95	139.59
XEMR/O (330)	MX	NL	EL COLORADO	14.76	0.500	169.43S	28.90	140.53
XEMR/O (335)	MX	NL	EL COLORADO	14.66	0.500	170.52S	28.88	141.64
XEMR/O (340)	MX	NL	EL COLORADO	14.56	0.500	171.75S	28.84	142.91
XEMR/O (345)	MX	NL	EL COLORADO	14.44	0.500	173.09S	28.81	144.28
XEMR/O (350)	MX	NL	EL COLORADO	14.32	0.500	174.54S	28.79	145.74
XEMR/O (355)	MX	NL	EL COLORADO	14.20	0.500	176.05S	28.79	147.26
XEMR/A (0)	MX	NL	EL COLORADO	13.96	0.500	179.03S	28.83	150.20
XEMR/A (5)	MX	NL	EL COLORADO	13.86	0.500	180.36S	28.83	151.53
XEMR/A (10)	MX	NL	EL COLORADO	13.76	0.500	181.67S	28.85	152.81
XEMR/A (15)	MX	NL	EL COLORADO	13.67	0.500	182.90S	28.86	154.04
XEMR/A (20)	MX	NL	EL COLORADO	13.58	0.500	184.03S	28.88	155.15
XEMR/A (25)	MX	NL	EL COLORADO	13.51	0.500	185.02S	28.90	156.12
XEMR/A (30)	MX	NL	EL COLORADO	13.45	0.500	185.83S	28.91	156.91
XEMR/A (35)	MX	NL	EL COLORADO	13.41	0.500	186.47S	28.93	157.54
XEMR/A (40)	MX	NL	EL COLORADO	13.37	0.500	187.05S	28.93	158.11
XEMR/A (45)	MX	NL	EL COLORADO	13.32	0.500	187.62S	28.92	158.70

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/A (50)	MX	NL	EL COLORADO	13.28	0.500	188.25S	28.91	159.33
XEMR/A (55)	MX	NL	EL COLORADO	13.23	0.500	188.92S	28.91	160.01
XEMR/A (60)	MX	NL	EL COLORADO	13.18	0.500	189.62S	28.91	160.71
XEMR/A (65)	MX	NL	EL COLORADO	13.14	0.500	190.30S	28.91	161.39
XEMR/A (70)	MX	NL	EL COLORADO	13.09	0.500	190.95S	28.92	162.03
XEMR/A (75)	MX	NL	EL COLORADO	13.05	0.500	191.53S	28.93	162.60
XEMR/A (80)	MX	NL	EL COLORADO	13.02	0.500	192.02S	28.94	163.08
XEMR/A (85)	MX	NL	EL COLORADO	12.99	0.500	192.40S	28.97	163.43
XEMR/A (90)	MX	NL	EL COLORADO	12.98	0.500	192.66S	28.99	163.67
XEMR/A (95)	MX	NL	EL COLORADO	12.97	0.500	192.80S	29.01	163.80
XEMR/A (100)	MX	NL	EL COLORADO	12.96	0.500	192.90S	29.02	163.87
XEMR/A (105)	MX	NL	EL COLORADO	12.95	0.500	193.08S	29.04	164.04
XEMR/A (110)	MX	NL	EL COLORADO	12.92	0.500	193.53S	29.05	164.48
XEMR/A (115)	MX	NL	EL COLORADO	12.87	0.500	194.27S	29.06	165.22
XEMR/A (120)	MX	NL	EL COLORADO	12.81	0.500	195.20S	29.07	166.13
XEMR/A (125)	MX	NL	EL COLORADO	12.74	0.500	196.17S	29.08	167.09
XEMR/A (130)	MX	NL	EL COLORADO	12.68	0.500	197.12S	29.10	168.02
XEMR/A (135)	MX	NL	EL COLORADO	12.63	0.500	197.98S	29.12	168.85
XEMR/A (140)	MX	NL	EL COLORADO	12.58	0.500	198.72S	29.16	169.56
XEMR/A (145)	MX	NL	EL COLORADO	12.54	0.500	199.32S	29.18	170.13
XEMR/A (150)	MX	NL	EL COLORADO	12.52	0.500	199.76S	29.21	170.55
XEMR/A (155)	MX	NL	EL COLORADO	12.50	0.500	200.02S	29.24	170.78
XEMR/A (160)	MX	NL	EL COLORADO	12.61	0.500	198.24S	29.24	169.00
XEMR/A (165)	MX	NL	EL COLORADO	12.66	0.500	197.47S	29.26	168.21
XEMR/A (170)	MX	NL	EL COLORADO	12.69	0.500	197.05S	29.28	167.78
XEMR/A (175)	MX	NL	EL COLORADO	12.72	0.500	196.56S	29.30	167.26
XEMR/A (180)	MX	NL	EL COLORADO	12.76	0.500	195.98S	29.32	166.66
XEMR/A (185)	MX	NL	EL COLORADO	12.80	0.500	195.29S	29.33	165.96
XEMR/A (190)	MX	NL	EL COLORADO	12.85	0.500	194.52S	29.35	165.17
XEMR/A (195)	MX	NL	EL COLORADO	12.91	0.500	193.66S	29.36	164.29
XEMR/A (200)	MX	NL	EL COLORADO	12.97	0.500	192.72S	29.38	163.35
XEMR/A (205)	MX	NL	EL COLORADO	13.04	0.500	191.73S	29.38	162.35
XEMR/A (210)	MX	NL	EL COLORADO	13.11	0.500	190.71S	29.39	161.33
XEMR/A (215)	MX	NL	EL COLORADO	13.18	0.500	189.64S	29.39	160.25
XEMR/A (220)	MX	NL	EL COLORADO	13.26	0.500	188.52S	29.40	159.12
XEMR/A (225)	MX	NL	EL COLORADO	13.34	0.500	187.38S	29.40	157.98
XEMR/A (230)	MX	NL	EL COLORADO	13.43	0.500	186.21S	29.39	156.82
XEMR/A (235)	MX	NL	EL COLORADO	13.51	0.500	185.03S	29.39	155.64
XEMR/A (240)	MX	NL	EL COLORADO	13.60	0.500	183.87S	29.38	154.49
XEMR/A (245)	MX	NL	EL COLORADO	13.68	0.500	182.75S	29.38	153.37
XEMR/A (250)	MX	NL	EL COLORADO	13.76	0.500	181.66S	29.37	152.29
XEMR/A (255)	MX	NL	EL COLORADO	13.84	0.500	180.62S	29.35	151.27
XEMR/A (260)	MX	NL	EL COLORADO	13.92	0.500	179.63S	29.33	150.30
XEMR/A (265)	MX	NL	EL COLORADO	13.99	0.500	178.72S	29.32	149.40
XEMR/A (270)	MX	NL	EL COLORADO	14.05	0.500	177.88S	29.30	148.58
XEMR/A (275)	MX	NL	EL COLORADO	14.16	0.500	176.51S	29.29	147.22
XEMR/A (280)	MX	NL	EL COLORADO	14.27	0.500	175.15S	29.28	145.87
XEMR/A (285)	MX	NL	EL COLORADO	14.38	0.500	173.80S	29.25	144.55
XEMR/A (290)	MX	NL	EL COLORADO	14.48	0.500	172.69S	29.23	143.46
XEMR/A (295)	MX	NL	EL COLORADO	14.56	0.500	171.75S	29.20	142.55
XEMR/A (300)	MX	NL	EL COLORADO	14.63	0.500	170.93S	29.17	141.76

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/A (305)	MX	NL	EL COLORADO	14.69	0.500	170.16S	29.13	141.03
XEMR/A (310)	MX	NL	EL COLORADO	14.70	0.500	170.10S	29.10	141.01
XEMR/A (315)	MX	NL	EL COLORADO	14.68	0.500	170.33S	29.05	141.27
XEMR/A (320)	MX	NL	EL COLORADO	14.64	0.500	170.74S	29.02	141.73
XEMR/A (325)	MX	NL	EL COLORADO	14.59	0.500	171.34S	28.98	142.36
XEMR/A (330)	MX	NL	EL COLORADO	14.53	0.500	172.09S	28.94	143.15
XEMR/A (335)	MX	NL	EL COLORADO	14.45	0.500	172.99S	28.91	144.08
XEMR/A (340)	MX	NL	EL COLORADO	14.37	0.500	174.02S	28.88	145.14
XEMR/A (345)	MX	NL	EL COLORADO	14.27	0.500	175.16S	28.87	146.29
XEMR/A (350)	MX	NL	EL COLORADO	14.17	0.500	176.40S	28.85	147.55
XEMR/A (355)	MX	NL	EL COLORADO	14.07	0.500	177.70S	28.84	148.86
XEMR/ (0)	MX	NL	EL COLORADO	13.77	0.500	181.51S	28.92	152.58
XEMR/ (5)	MX	NL	EL COLORADO	13.73	0.500	182.08S	28.91	153.17
XEMR/ (10)	MX	NL	EL COLORADO	13.68	0.500	182.70S	28.90	153.80
XEMR/ (15)	MX	NL	EL COLORADO	13.63	0.500	183.35S	28.89	154.46
XEMR/ (20)	MX	NL	EL COLORADO	13.58	0.500	184.04S	28.88	155.16
XEMR/ (25)	MX	NL	EL COLORADO	13.53	0.500	184.75S	28.88	155.88
XEMR/ (30)	MX	NL	EL COLORADO	13.48	0.500	185.48S	28.87	156.61
XEMR/ (35)	MX	NL	EL COLORADO	13.43	0.500	186.22S	28.87	157.35
XEMR/ (40)	MX	NL	EL COLORADO	13.37	0.500	186.95S	28.89	158.07
XEMR/ (45)	MX	NL	EL COLORADO	13.32	0.500	187.65S	28.89	158.76
XEMR/ (50)	MX	NL	EL COLORADO	13.27	0.500	188.33S	28.89	159.44
XEMR/ (55)	MX	NL	EL COLORADO	13.23	0.500	189.01S	28.90	160.11
XEMR/ (60)	MX	NL	EL COLORADO	13.18	0.500	189.67S	28.90	160.77
XEMR/ (65)	MX	NL	EL COLORADO	13.14	0.500	190.32S	28.91	161.41
XEMR/ (70)	MX	NL	EL COLORADO	13.09	0.500	190.95S	28.92	162.04
XEMR/ (75)	MX	NL	EL COLORADO	13.05	0.500	191.56S	28.93	162.63
XEMR/ (80)	MX	NL	EL COLORADO	13.01	0.500	192.14S	28.94	163.20
XEMR/ (85)	MX	NL	EL COLORADO	12.98	0.500	192.68S	28.96	163.72
XEMR/ (90)	MX	NL	EL COLORADO	12.94	0.500	193.18S	28.97	164.21
XEMR/ (95)	MX	NL	EL COLORADO	12.91	0.500	193.64S	28.99	164.65
XEMR/ (100)	MX	NL	EL COLORADO	12.88	0.500	194.05S	29.00	165.05
XEMR/ (105)	MX	NL	EL COLORADO	12.86	0.500	194.42S	29.02	165.40
XEMR/ (110)	MX	NL	EL COLORADO	12.84	0.500	194.73S	29.04	165.69
XEMR/ (115)	MX	NL	EL COLORADO	12.82	0.500	194.99S	29.05	165.93
XEMR/ (120)	MX	NL	EL COLORADO	12.81	0.500	195.19S	29.07	166.12
XEMR/ (125)	MX	NL	EL COLORADO	12.80	0.500	195.32S	29.09	166.24
XEMR/ (130)	MX	NL	EL COLORADO	12.79	0.500	195.40S	29.10	166.30
XEMR/ (135)	MX	NL	EL COLORADO	12.79	0.500	195.42S	29.12	166.30
XEMR/ (140)	MX	NL	EL COLORADO	12.80	0.500	195.38S	29.14	166.24
XEMR/ (145)	MX	NL	EL COLORADO	12.80	0.500	195.28S	29.15	166.12
XEMR/ (150)	MX	NL	EL COLORADO	12.81	0.500	195.11S	29.17	165.94
XEMR/ (155)	MX	NL	EL COLORADO	12.83	0.500	194.89S	29.19	165.71
XEMR/ (160)	MX	NL	EL COLORADO	12.88	0.500	194.11S	29.20	164.91
XEMR/ (165)	MX	NL	EL COLORADO	12.94	0.500	193.19S	29.20	163.99
XEMR/ (170)	MX	NL	EL COLORADO	12.97	0.500	192.71S	29.21	163.50
XEMR/ (175)	MX	NL	EL COLORADO	13.00	0.500	192.26S	29.21	163.05
XEMR/ (180)	MX	NL	EL COLORADO	13.03	0.500	191.81S	29.21	162.60
XEMR/ (185)	MX	NL	EL COLORADO	13.06	0.500	191.36S	29.22	162.14
XEMR/ (190)	MX	NL	EL COLORADO	13.10	0.500	190.90S	29.23	161.67

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEMR/ (195)	MX	NL	EL COLORADO	13.13	0.500	190.42S	29.23	161.19
XEMR/ (200)	MX	NL	EL COLORADO	13.16	0.500	189.93S	29.24	160.70
XEMR/ (205)	MX	NL	EL COLORADO	13.20	0.500	189.44S	29.24	160.20
XEMR/ (210)	MX	NL	EL COLORADO	13.23	0.500	188.93S	29.24	159.69
XEMR/ (215)	MX	NL	EL COLORADO	13.27	0.500	188.42S	29.25	159.17
XEMR/ (220)	MX	NL	EL COLORADO	13.30	0.500	187.91S	29.25	158.66
XEMR/ (225)	MX	NL	EL COLORADO	13.34	0.500	187.39S	29.25	158.14
XEMR/ (230)	MX	NL	EL COLORADO	13.38	0.500	186.87S	29.25	157.63
XEMR/ (235)	MX	NL	EL COLORADO	13.42	0.500	186.35S	29.23	157.12
XEMR/ (240)	MX	NL	EL COLORADO	13.45	0.500	185.84S	29.23	156.61
XEMR/ (245)	MX	NL	EL COLORADO	13.49	0.500	185.34S	29.23	156.12
XEMR/ (250)	MX	NL	EL COLORADO	13.52	0.500	184.86S	29.22	155.64
XEMR/ (255)	MX	NL	EL COLORADO	13.56	0.500	184.39S	29.22	155.18
XEMR/ (260)	MX	NL	EL COLORADO	13.59	0.500	183.95S	29.21	154.74
XEMR/ (265)	MX	NL	EL COLORADO	13.62	0.500	183.52S	29.20	154.32
XEMR/ (270)	MX	NL	EL COLORADO	13.65	0.500	183.12S	29.19	153.92
XEMR/ (275)	MX	NL	EL COLORADO	13.68	0.500	182.74S	29.19	153.55
XEMR/ (280)	MX	NL	EL COLORADO	13.71	0.500	182.38S	29.18	153.21
XEMR/ (285)	MX	NL	EL COLORADO	13.73	0.500	182.05S	29.17	152.88
XEMR/ (290)	MX	NL	EL COLORADO	13.76	0.500	181.62S	29.16	152.46
XEMR/ (295)	MX	NL	EL COLORADO	13.82	0.500	180.83S	29.15	151.69
XEMR/ (300)	MX	NL	EL COLORADO	13.88	0.500	180.07S	29.12	150.94
XEMR/ (305)	MX	NL	EL COLORADO	13.95	0.500	179.24S	29.11	150.13
XEMR/ (310)	MX	NL	EL COLORADO	13.96	0.500	179.02S	29.09	149.93
XEMR/ (315)	MX	NL	EL COLORADO	13.97	0.500	178.96S	29.07	149.89
XEMR/ (320)	MX	NL	EL COLORADO	13.97	0.500	178.98S	29.05	149.92
XEMR/ (325)	MX	NL	EL COLORADO	13.96	0.500	179.06S	29.04	150.03
XEMR/ (330)	MX	NL	EL COLORADO	13.95	0.500	179.22S	29.02	150.21
XEMR/ (335)	MX	NL	EL COLORADO	13.93	0.500	179.45S	29.00	150.45
XEMR/ (340)	MX	NL	EL COLORADO	13.91	0.500	179.74S	28.98	150.76
XEMR/ (345)	MX	NL	EL COLORADO	13.88	0.500	180.09S	28.96	151.13
XEMR/ (350)	MX	NL	EL COLORADO	13.85	0.500	180.51S	28.94	151.57
XEMR/ (355)	MX	NL	EL COLORADO	13.81	0.500	180.98S	28.94	152.04
WRVA (0)	US	VA	RICHMOND	3.19	0.500	782.72S	96.27	686.44
WRVA (5)	US	VA	RICHMOND	3.15	0.500	794.22S	92.38	701.84
WRVA (10)	US	VA	RICHMOND	3.14	0.500	796.64S	88.42	708.23
WRVA (15)	US	VA	RICHMOND	3.15	0.500	793.37S	84.69	708.68
WRVA (20)	US	VA	RICHMOND	3.17	0.500	788.00S	81.44	706.55
WRVA (25)	US	VA	RICHMOND	3.19	0.500	783.11S	78.80	704.31
WRVA (30)	US	VA	RICHMOND	3.20	0.500	780.06S	76.71	703.34
WRVA (35)	US	VA	RICHMOND	3.21	0.500	779.44S	75.11	704.33
WRVA (40)	US	VA	RICHMOND	3.20	0.500	781.72S	73.91	707.81
WRVA (45)	US	VA	RICHMOND	3.18	0.500	787.38S	73.03	714.36
WRVA (50)	US	VA	RICHMOND	3.14	0.500	797.10S	72.40	724.69
WRVA (55)	US	VA	RICHMOND	3.19	0.580	908.51s	70.52	837.99
WRVA (60)	US	VA	RICHMOND	3.20	0.633	988.98s	69.40	919.58
WRVA (65)	US	VA	RICHMOND	3.26	0.708	1085.61s	67.80	1017.81
WRVA (70)	US	VA	RICHMOND	3.31	0.754	1139.56s	66.50	1073.06
WRVA (75)	US	VA	RICHMOND	3.35	0.781	1166.61s	65.40	1101.22
WRVA (80)	US	VA	RICHMOND	3.39	0.783	1155.77s	64.41	1091.36



Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WRVA (85)	US	VA	RICHMOND	3.43	0.767	1118.88s	63.54	1055.34
WRVA (90)	US	VA	RICHMOND	3.46	0.740	1070.10s	62.76	1007.34
WRVA (95)	US	VA	RICHMOND	3.49	0.718	1029.12s	62.07	967.05
WRVA (100)	US	VA	RICHMOND	3.52	0.694	986.56s	61.43	925.14
WRVA (105)	US	VA	RICHMOND	3.52	0.762	1081.07s	60.79	1020.27
WRVA (110)	US	VA	RICHMOND	3.53	0.868	1231.38s	60.10	1171.28
WRVA (115)	US	VA	RICHMOND	3.53	1.008	1428.10s	59.34	1368.76
WRVA (120)	US	VA	RICHMOND	3.53	1.160	1640.94s	58.50	1582.44
WRVA (125)	US	VA	RICHMOND	3.54	1.326	1871.38s	57.56	1813.82
WRVA (130)	US	VA	RICHMOND	3.54	1.548	2185.58s	56.36	2129.22
WRVA (135)	US	VA	RICHMOND	3.51	1.941	2767.66s	54.15	2713.51
WRVA (140)	US	VA	RICHMOND	3.53	2.004	2836.46s	52.64	2783.82
WRVA (145)	US	VA	RICHMOND	3.56	2.018	2831.23s	50.93	2780.30
WRVA (150)	US	VA	RICHMOND	3.64	1.940	2665.80s	50.34	2615.46
WRVA (155)	US	VA	RICHMOND	3.70	1.859	2510.94s	49.37	2461.57
WRVA (160)	US	VA	RICHMOND	3.77	1.759	2335.70s	48.09	2287.62
WRVA (165)	US	VA	RICHMOND	3.84	1.625	2117.75s	46.76	2070.98
WRVA (170)	US	VA	RICHMOND	3.92	1.486	1896.24s	46.43	1849.81
WRVA (175)	US	VA	RICHMOND	4.00	1.341	1676.81s	46.09	1630.73
WRVA (180)	US	VA	RICHMOND	4.09	1.175	1436.74s	44.80	1391.94
WRVA (185)	US	VA	RICHMOND	4.20	0.980	1167.33s	42.94	1124.40
WRVA (190)	US	VA	RICHMOND	4.33	0.775	895.42s	40.77	854.65
WRVA (195)	US	VA	RICHMOND	4.45	0.627	704.13s	39.88	664.26
WRVA (200)	US	VA	RICHMOND	4.59	0.500	544.73s	39.06	505.68
WRVA (205)	US	VA	RICHMOND	4.61	0.500	542.25s	42.03	500.22
WRVA (210)	US	VA	RICHMOND	4.63	0.500	540.26s	44.35	495.91
WRVA (215)	US	VA	RICHMOND	4.65	0.500	537.71s	46.09	491.62
WRVA (220)	US	VA	RICHMOND	4.68	0.500	534.06s	47.39	486.67
WRVA (225)	US	VA	RICHMOND	4.73	0.500	528.67s	48.29	480.37
WRVA (230)	US	VA	RICHMOND	4.80	0.500	521.05s	48.89	472.16
WRVA (235)	US	VA	RICHMOND	4.90	0.500	510.66s	49.22	461.44
WRVA (240)	US	VA	RICHMOND	5.03	0.500	496.94s	49.35	447.59
WRVA (245)	US	VA	RICHMOND	5.22	0.500	479.13s	49.32	429.81
WRVA (250)	US	VA	RICHMOND	5.47	0.500	456.71s	49.22	407.50
WRVA (255)	US	VA	RICHMOND	5.82	0.500	429.67s	49.20	380.47
WRVA (260)	US	VA	RICHMOND	6.26	0.500	399.35s	49.57	349.78
WRVA (265)	US	VA	RICHMOND	6.79	0.500	368.39s	50.70	317.68
WRVA (270)	US	VA	RICHMOND	7.36	0.500	339.76s	53.00	286.76
WRVA (275)	US	VA	RICHMOND	7.92	0.500	315.81s	56.70	259.11
WRVA (280)	US	VA	RICHMOND	8.39	0.500	297.97s	61.84	236.13
WRVA (285)	US	VA	RICHMOND	8.71	0.500	286.92s	68.23	218.69
WRVA (290)	US	VA	RICHMOND	8.82	0.500	283.53s	75.40	208.13
WRVA (295)	US	VA	RICHMOND	8.69	0.500	287.76s	82.79	204.97
WRVA (300)	US	VA	RICHMOND	8.34	0.500	299.93s	89.74	210.19
WRVA (305)	US	VA	RICHMOND	7.81	0.500	320.11s	95.79	224.32
WRVA (310)	US	VA	RICHMOND	7.18	0.500	348.08s	100.68	247.40
WRVA (315)	US	VA	RICHMOND	6.52	0.500	383.53s	104.35	279.19
WRVA (320)	US	VA	RICHMOND	5.87	0.500	425.82s	106.83	318.99
WRVA (325)	US	VA	RICHMOND	5.28	0.500	473.88s	108.25	365.62
WRVA (330)	US	VA	RICHMOND	4.75	0.500	526.10s	108.73	417.37
WRVA (335)	US	VA	RICHMOND	4.31	0.500	580.35s	108.35	472.00

Call Letters	Ct St City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WRVA (340)	US VA RICHMOND	4.01	1.006	1255.45s	90.89	1164.56
WRVA (345)	US VA RICHMOND	3.80	0.890	1169.43s	92.14	1077.29
WRVA (350)	US VA RICHMOND	3.55	0.649	914.81s	97.05	817.76
WRVA (355)	US VA RICHMOND	3.35	0.564	842.11s	97.19	744.92
KNWQ	US CA PALM SPRINGS	203.48	15.543	381.93	155.24	226.69
50% = 15.543, 25% = 15.543; KXST=15.54						
XENVA2/A	MX CH OJINAGA	42.75	2.310	270.13	27.56	242.58
50% = 4.62, 25% = 5.402; XE/A=3.67 XELIA/A=2.81 XEMR/ =2.17 XETE1/A=1.77						
KRDU	US CA DINUBA	163.58	2.020	617.33	58.41	558.92
50% = 7.525, 25% = 8.078; KWKH=5.50 CKWX/A=5.14 KSDO=2.94						
KSDO	US CA SAN DIEGO	143.49	2.341	815.60	166.05	649.55
50% = 8.805, 25% = 9.362; KWKH=8.81 CKWX/A=3.18						
KSDO	US CA SAN DIEGO	137.24	2.334	850.14	168.59	681.55
50% = 8.78, 25% = 9.334; KWKH=8.78 CKWX/A=3.17						
KHFX	US TX CLEBURNE	19.44	2.811	722.93	11.15	711.78
50% = 10.738, 25% = 11.244; KWKH=10.74 WRVA=3.34						
KXRB	US SD SIOUX FALLS	14.92	2.558	857.29	113.10	744.19
50% = 10.232, 25% = 10.232; WRVA=10.23						
CFXL/A	CA AB CALGARY	20.76	3.962	953.92	135.76	818.16
50% = 7.923, 25% = 9.351; KXRB=7.92 KHTK=3.18 WRVA=2.74 KGEM=2.65						
CHRB/A	CA AB HIGH RIVER	20.76	3.962	953.92	135.76	818.16
50% = 7.923, 25% = 9.351; KXRB=7.92 KHTK=3.18 WRVA=2.74 KGEM=2.65						
KEIB	US CA LOS ANGELES	166.44	3.508	1053.90	169.70	884.20
50% = 5.994, 25% = 6.492; KXST=3.51 KSAL=2.86 KSL=2.82 XERM/A=2.74 WJBO=2.49						