



OWL ENGINEERING & EMC TEST LABS, INC.

CONSULTING COMMUNICATIONS ENGINEERS • EMC TEST LABORATORIES

5844 Hamline Avenue North, Shoreview, MN 55126
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**ENGINEERING EXHIBIT FOR AN
APPLICATION FOR A CONSTRUCTION PERMIT
CHANNEL 231 CLASS A KXLP
RADIOACTIVE, LLC
EAGLE LAKE, MINNESOTA**

CHANNEL 231 3.7 KW (H&V) 121 METERS HAAT

January 12, 2009

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TABLE OF CONTENTS

| | |
|-----------------------|------------------------------------|
| Engineering Figure 1 | Engineering Statement |
| Engineering Figure 2 | Site Location Map |
| Engineering Figure 3 | Aerial Site Photograph |
| Engineering Figure 4A | Contour Coverage Map |
| Engineering Figure 4B | Present & Proposed 70 DBUV Contour |
| Engineering Figure 5 | Present & Proposed 60 DBUV Contour |
| Engineering Figure 6 | KXLP/KIAI Interference Study |
| Engineering Figure 6A | KXLP/KIAI Interference Contour Map |
| Engineering Figure 7 | KXLP/KIAI Tabulated Contour Data |
| | Radio Path Plot |



ENGINEERING STATEMENT

This engineering exhibit, of which this Statement is a part, was prepared in accordance with the Rules and Regulations of the Federal Communications Commission and pursuant to the provisions of Section III-B of FCC Form 301 on behalf of RadioActive, LLC (hereafter “**RadioActive**”) in support of an application for authority to modify an existing FM broadcast facility operating on channel 231 (94.1MHz) at Eagle Lake, Minnesota. The instant application proposes to change the transmitter location and change the power output and antenna height. The effective radiated power proposed is 3.7 kW, both in the horizontal and vertical plane, and the antenna center of radiation is 121 meters above the average terrain. This power/height combination is an allowable Class A facility permitted under the current rules and regulations.

“**RadioActive**” proposes to operate from a site uniquely described by the geographic coordinates:

(NAD 27)

N 44° 08' 31" North Latitude
W 94° 00' 06" West Longitude

(NAD 83)

N 44° 08' 30.9" North Latitude
W 94° 00' 06" West Longitude

Engineering Exhibit Figure 1 is a portion of the Mankato West, Minnesota 7.5 minute U.S.G.S. topographic quadrangle map showing the proposed transmitter site.

Because the area is rural, there is not expected to be any problem with blanketing interference. The 115 dBuV signal contour is predicted to have an area of 1.8 square kilometers and the surrounding area is not very populated. There are only 2,495 people located within this contour. The applicant is aware of the provisions of §73.318 of the FCC's Rules and the requirement for satisfying all complaints of blanketing interference that are received within a one-year period. The main studio for the station is presently located in the Mankato, Minnesota area and the 70 dBuV coverage contour encompasses the studio. Therefore, the instant application complies with §73.1125 of the Rules.



COVERAGE CONTOURS

The three-to-sixteen-kilometer average terrain elevations were derived from the NED 3-second topography database. However, the site elevation was determined from the U.S.G.S. 7.5 minute Mankato West, Minnesota topography quadrangle map.

The effective antenna radiation center height for each of the eight standard 45-degree spaced radials was used in conjunction with the F(50,50) metric curves of Figure 1 of § 73.333 of the Rules to determine the distances to the 70 dBuV and 60 dBuV coverage contours

Distance to Contours

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 413 meters Average HAAT: 121 meters

Frequency: 94.1000 MHz

Coordinates: N 44° 8' 31" W 94° 0' 6"

F(50,50) Curves Number of Contours: 2

| AZ | HAAT | ERPd | CONTOUR LEVELS (dBu) : | |
|-------|------|--------|------------------------|------|
| (deg) | (m) | (kW) | 70.0 | 60.0 |
| 0.0 | 169 | 3.7000 | 18.9 | 32.2 |
| 45.0 | 107 | 3.7000 | 14.7 | 26.2 |
| 90.0 | 105 | 3.7000 | 14.6 | 26.0 |
| 135.0 | 111 | 3.7000 | 15.0 | 26.6 |
| 180.0 | 117 | 3.7000 | 15.4 | 27.3 |
| 225.0 | 123 | 3.7000 | 15.9 | 27.8 |
| 270.0 | 119 | 3.7000 | 15.5 | 27.4 |
| 315.0 | 114 | 3.7000 | 15.2 | 27.0 |

The contours drawn from the data are depicted on the maps included as Engineering Figure 3. As is readily evident, all of Eagle Lake, Minnesota is included within the proposed 70 dBuV coverage contour as required by the §73.315 (a) of the Rules.

The proposed and existing coverage contours were calculated and are shown in Figures 4 and 4A.

The radial drawn through the principal city is depicted on the profile plot in Engineering Figure 7. This permitted a determination to be made that there are no major obstructions in the intervening path from the transmitter site to the principal community which demonstrates compliance with §73.315 (b) of the Rules.



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POPULATION AND AREA DATA

Based on the 2000 U.S. Census of Population, the number of persons enclosed by the proposed 60 dBuV coverage contour is 83,501 persons. The population count was made through the employment of a computer program containing a database including the geographic coordinates of the centroids of population groupings. The area within the proposed 60 dBuV coverage contour is 2,420 square kilometers. A computerized integration program determined this area.

Since the proposed facility is co-locating with an existing FM facility (KMSU) and it is already registered with Registration #1256999 no FAA approval is required.

ALLOCATION CONSIDERATIONS

A review of allotments and assignments on channel 231, on the three immediately upper adjacent, the three immediately lower adjacent channels shows that the site proposed would have a predicted short-spaced condition with KIAI in Mason City, Iowa on channel 230. As a result of this short-spaced condition "**RadioActive**" requests processing under Section 73.215 of the rules.

| REFERENCE | | | | CLASS = A | | | | DISPLAY DATES | |
|------------------------------------|---------|----------|-------------|-----------|-------|-------|--------|---------------|----------|
| 44 08 31.0 N. | | | | | | | | DATA | 01-08-09 |
| 94 00 06.0 W. | | | | | | | | SEARCH | 01-12-09 |
| ----- Channel 231 - 94.1 MHz ----- | | | | | | | | | |
| Call | Channel | Location | | Azi | Dist | FCC | Margin | | |
| KIAI | LIC | 230C1 | Mason City | IA | 145.9 | 130.3 | 132.5 | -2.2 | ** |
| KKLN | LIC | 231A | Atwater | MN | 330.3 | 119.5 | 114.5 | 5.1 | |
| WIAL | LIC | 231C1 | Eau Claire | WI | 68.4 | 217.2 | 199.5 | 17.7 | |
| KDOM-FM | LIC | 232A | Windom | MN | 253.6 | 98.9 | 71.5 | 27.4 | |
| KSTP-FM | LIC | 233C | St. Paul | MN | 33.4 | 123.1 | 94.5 | 28.6 | |
| KXXR | LIC | 229C | Minneapolis | MN | 34.0 | 123.4 | 94.5 | 28.9 | |
| KNSG | LIC | 234C2 | Springfield | MN | 283.7 | 108.5 | 54.5 | 54.0 | |
| KRFO-FM | LIC-N | 285A | Owatonna | MN | 96.2 | 66.3 | 9.5 | 56.8 | |

**-- Short-Spaced condition with KIAI is removed by using contour protection

Figure 5 shows the interference study data and that the instant proposal does not overlap the contours for KIAI. The interference contours for the proposed facility and KIAI were plotted and can be found in Figure 6 and the data was tabulated and can be found in Figure 6A. The data was calculated utilizing the NED 3-second terrain database. Based on the data provided it shows that this instant application complies with §73.215 of the rules.



ENVIRONMENTAL IMPACT STATEMENT

The instant proposal is categorically excluded from environmental processing since none of the conditions of §1.1306(b)(2) and (3) would be involved for the following reasons:

- 1) The site proposed is not in or near any location referenced in §1.1306(b)(1) as being of environmental interest.
- 2) The provisions of §1.1306(b)(2) relating to the use of high intensity strobe lighting does not apply since this tower is already utilizing an approved lighting system.
- 3) Compliance to §1.1306(b)(3) regarding human exposure to RF radiation was examined. A search was made about the proposed site coordinates to locate any additional sources of RF radiation and one additional source was found and considered in the calculations. The calculations show that the instant proposal is in compliance with the requirements.

ANSI Power Density Calculations

The proposed antenna will be energized such that it produces an effective radiated power of 3.7 kW from a center of radiation 111 meters above ground level. There is also another FM station located on the tower KMSU.

Using the FCC OET #65 Bulletin the maximum RF Radiation level assuming the combined power levels of KMSU and KXLP the predicted radiation levels are:

| STATION | Power Density ($\mu\text{W}/\text{cm}^2$) | % of maximum uncontrolled |
|--------------|--|------------------------------|
| KMSU | 75.4 | 6.3 |
| KXLP | 20.0 | 37.7 |
| TOTAL | 95.4 | 44.0 |

Based on the calculations it was determined that the RF radiation would be only 44% of the uncontrolled limit.

Access to RF circuitry is restricted by a metal fence that surrounds the area that limits access to the public. Signs are posted warning of the potential danger. When persons require access to the site, tower or antenna for maintenance purposes, the transmitter



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power will be reduced or completely eliminated to comply with ANSI guidelines. Hence, the conditions of §1.1306(b)(3) would not be involved.

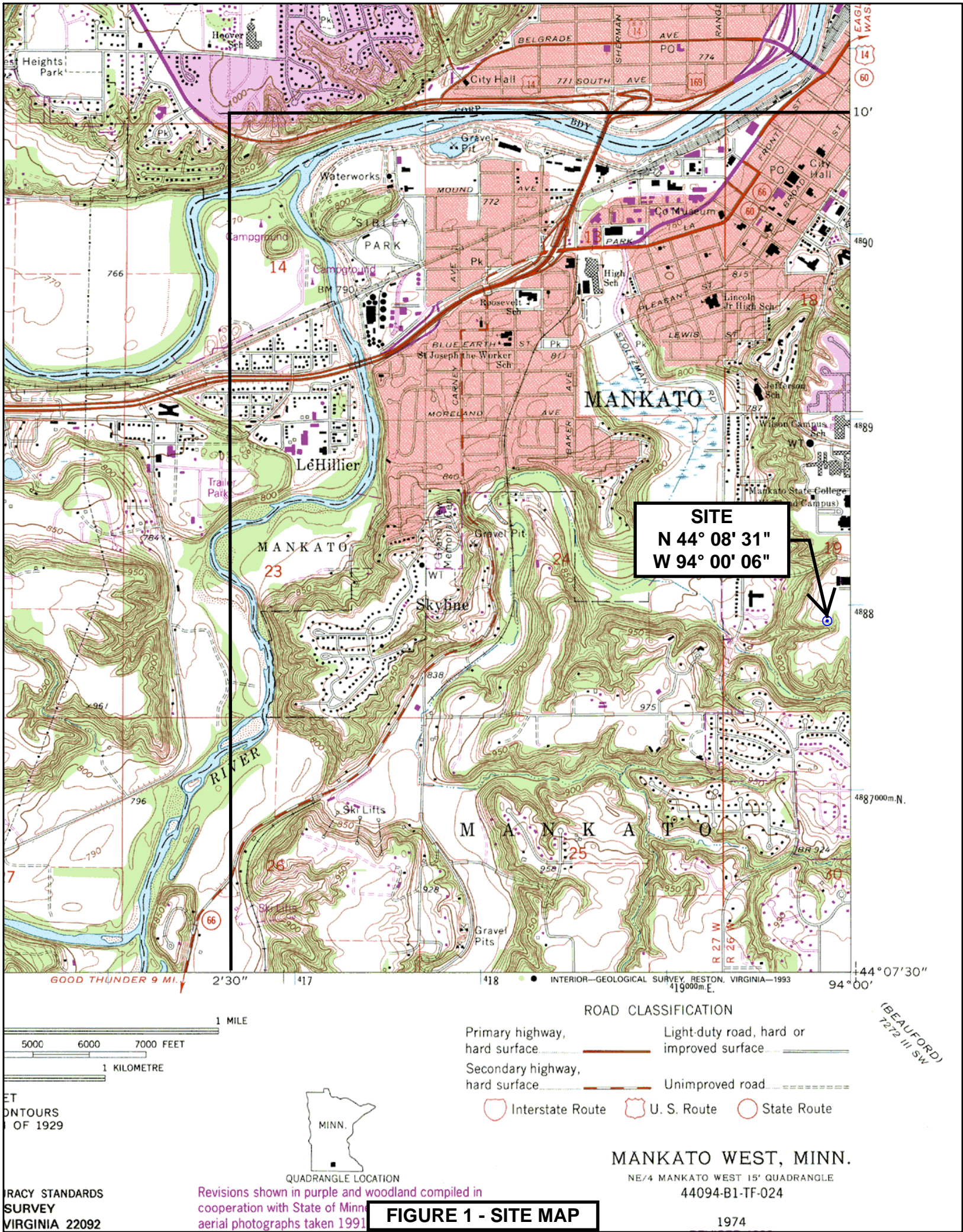
CONCLUSIONS

Based on the engineering studies provided, the following conclusions can be obtained:

- (1) Implementation of the instant proposal will provide Eagle Lake, Minnesota with a full time aural broadcast service.
- (2) 83,501 persons in 2,420 square kilometers would have an available signal strength of 60 dBuV or greater from the proposed construction location.
- (3) All of Eagle Lake, Minnesota would be served with a signal of 70 dBuV or greater from the proposed construction site.
- (4) The proposal is in complete conformance with all technical rules of the Federal Communications Commission.

Garrett G. Lysiak, P.E.

January 12, 2009



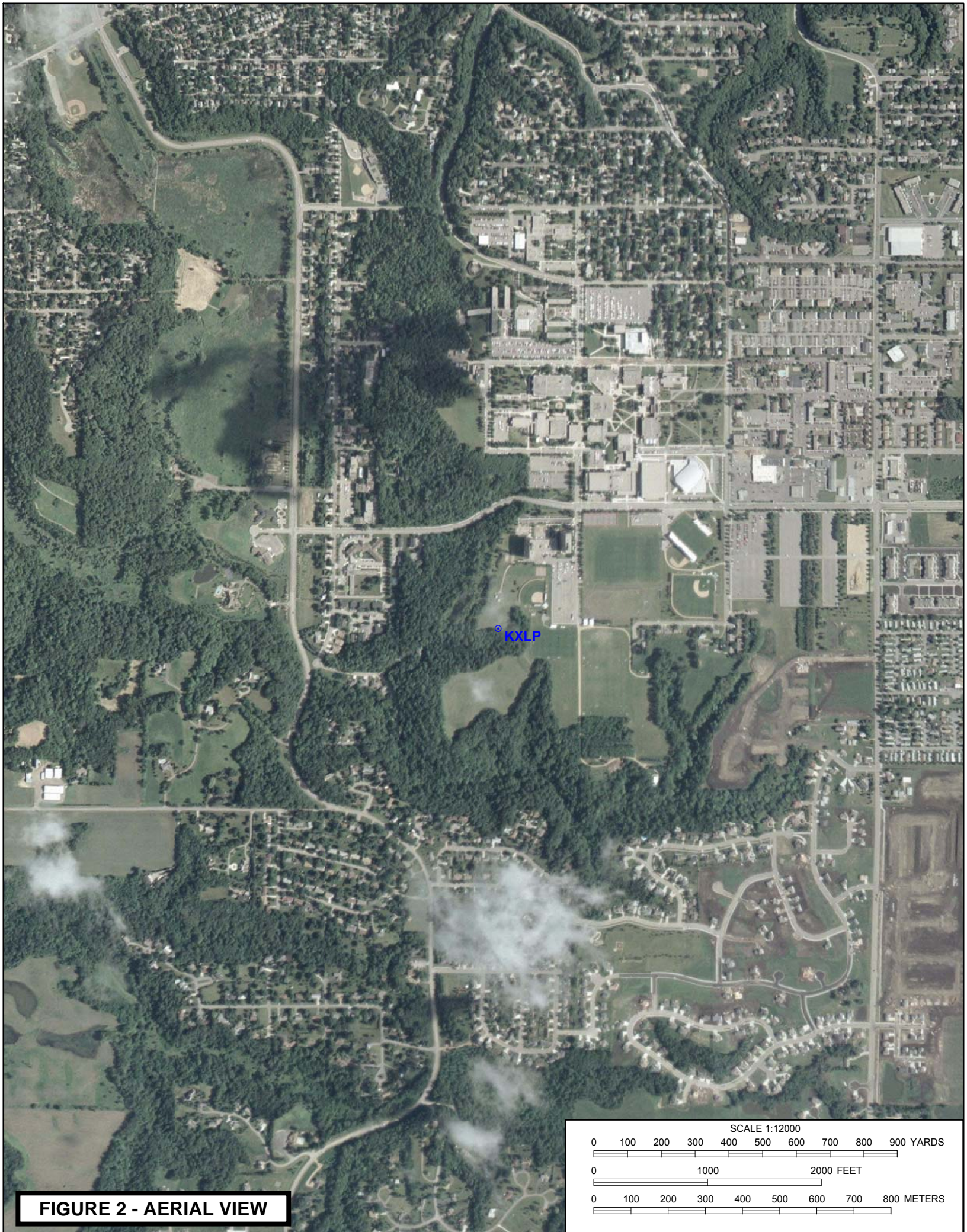
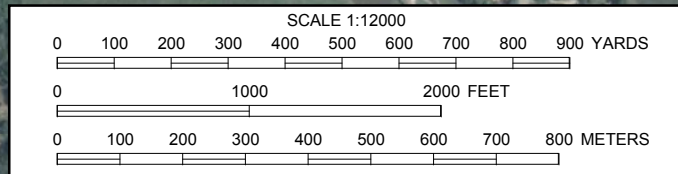
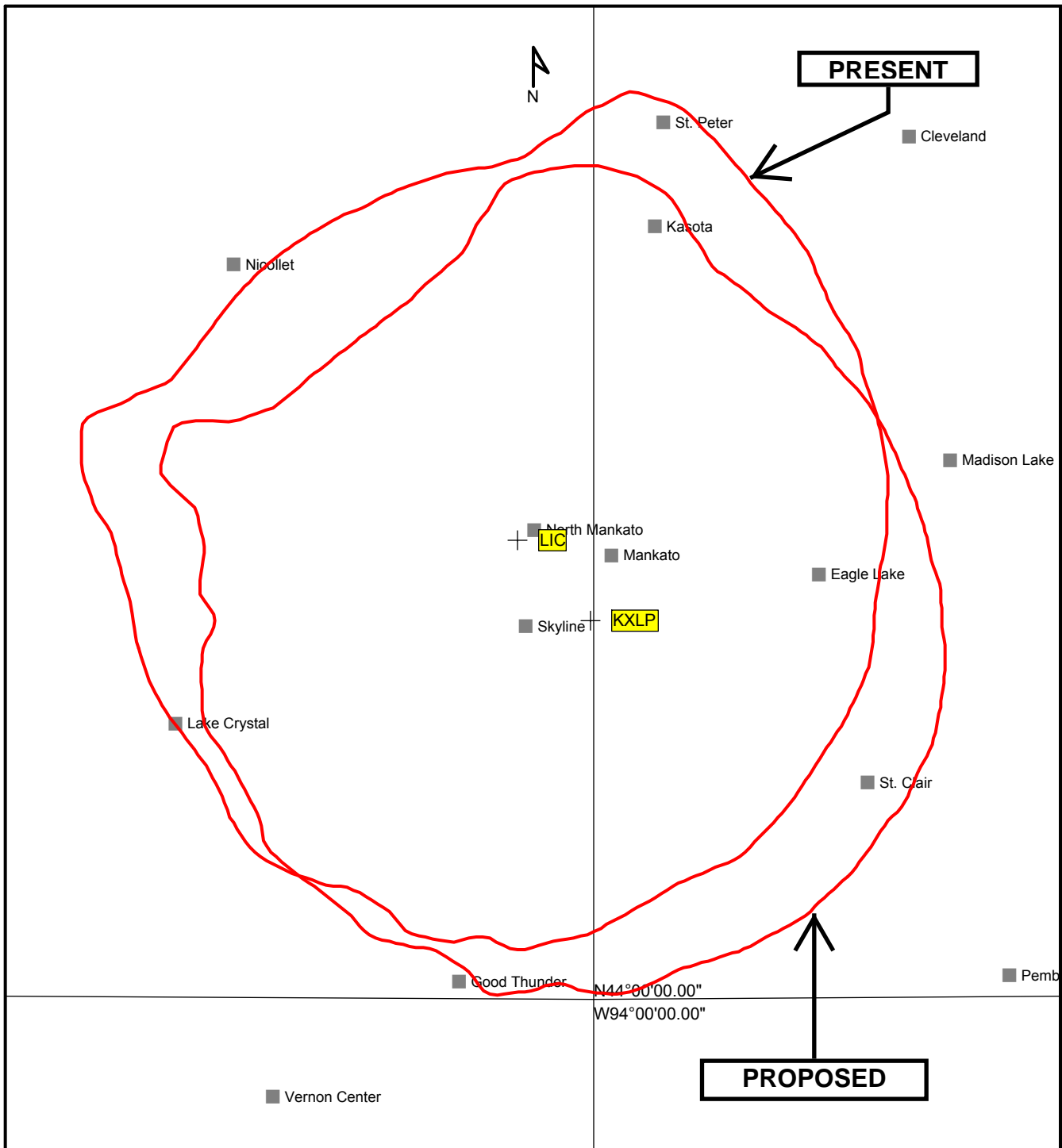


FIGURE 2 - AERIAL VIEW





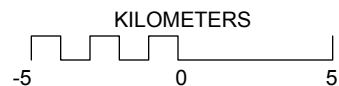
Prop. model: FCC-FCC
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Land use (clutter): none
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: OMNI
Height: 9.1 m AGL Gain: 0.00 dBd

Field strength at remote

■ = 70.0 dBμV/m

Display threshold level: -120.0 dBmW

Reference Grid (spacing: 1 degree)



OWL ENGINEERING, INC
PRESENT & PROPOSED CONTOURS
FIGURE 4A JANUARY 12, 2009

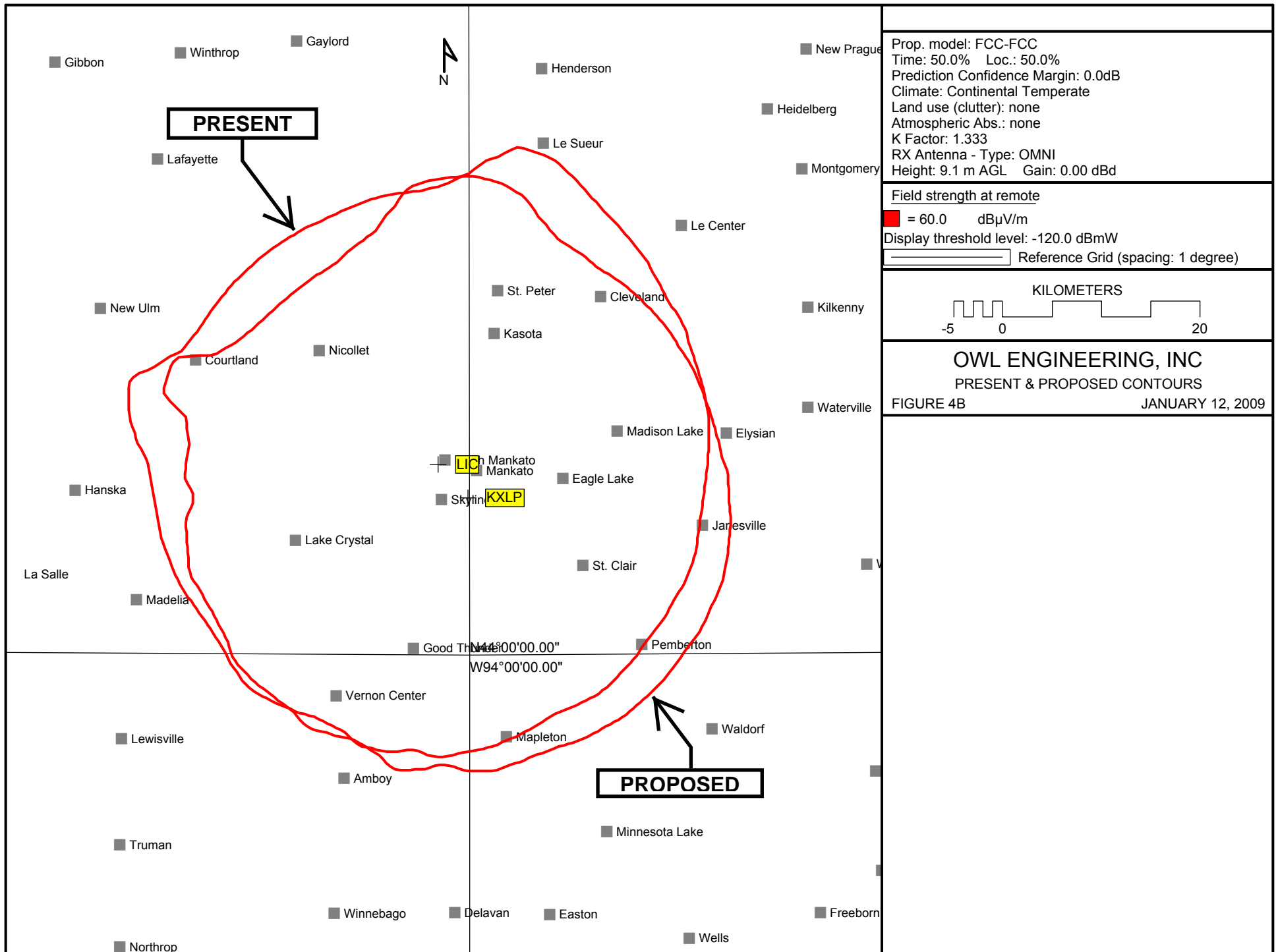


FIGURE 5 - INTERFERENCE STUDY

REFERENCE
44 08 31.0 N.
94 00 06.0 W.

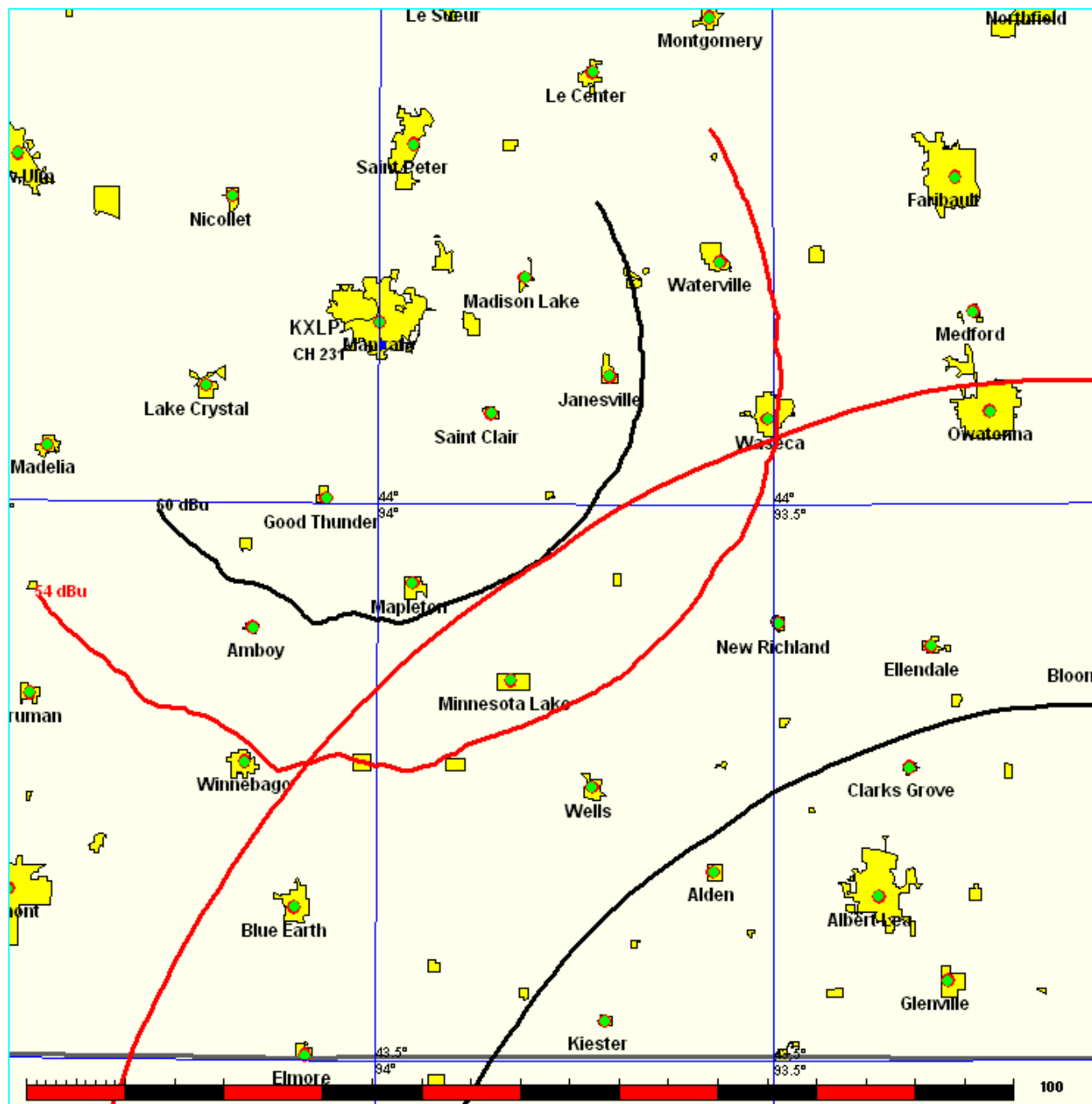
CH# 231A - 94.1 MHz, Pwr= 3.7 kW, HAAT= 120.9 M, COR= 413 M
Average Protected F(50-50)= 27.62 km
Omni-directional

DISPLAY DATES
DATA 01-08-09
SEARCH 01-12-09

| CH CITY | CALL | TYPE STATE | ANT | AZI <-- | DIST FILE # | LAT LNG | PWR(kW) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE | *IN* (Overlap in km) | *OUT* |
|----------------------|----------|---------------|-----|----------------|-------------------------|--------------------------|--------------------|-------------------|------------------------------------|-------------------------|-------|
| 230C1 Mason City | KIAI^ | LIC _CN IA | | 145.9 326.5 | 130.3 BLH19911024KD | 43 10 04.0 93 06 05.0 | 100.000 299 | 103.4 643 | 71.0 Three Eagles Of Lincoln, I | 0.2 | 18.5 |
| 231A Atwater | KKLN« | LIC _C_ MN | | 330.3 149.8 | 119.5 BLH20000824AAA | 45 04 24.0 94 45 19.0 | 6.000 100 | 0.0 458 | 0.0 Flagship Broadcasting, Llc | 114.5R | 5.1M |
| 231C1 Eau Claire | WIAL« | LIC _CN WI | | 68.4 250.2 | 217.2 BLH19810519AE | 44 49 48.0 91 26 48.0 | 84.000 107 | 0.0 391 | 0.0 Maverick Media Of Eau Clai | 199.5R | 17.7M |
| 232A Windom | KDOM-FM« | LIC _CN MN | | 253.6 72.8 | 98.9 BLH19920130KB | 43 53 06.0 95 10 56.0 | 5.700 102 | 0.0 537 | 0.0 Windom Radio, Inc. | 71.5R | 27.4M |
| 233C St. Paul | KSTP-FM« | LIC _CY MN | | 33.4 214.0 | 123.1 BMLH19910923KF | 45 03 45.0 93 08 22.0 | 100.000 372 | 0.0 647 | 0.0 Kstp-fm, Llc | 94.5R | 28.6M |
| 229C Minneapolis | KXXR« | LIC _CN MN | | 34.0 214.6 | 123.4 BLH19910814KF | 45 03 30.0 93 07 27.0 | 100.000 315 | 0.0 593 | 0.0 Radio License Holding Iii, | 94.5R | 28.9M |
| 234C2 Springfield | KNSG« | LIC _CN MN | | 283.7 102.8 | 108.5 BLH19950711KD | 44 21 54.0 95 19 27.0 | 50.000 144 | 0.0 475 | 0.0 Springfield Radio, Inc. | 54.5R | 54.0M |
| 285A Owatonna | KRFO-FM« | LIC NCN MN | | 96.2 276.8 | 66.3 BMLH19960111KW | 44 04 29.0 93 10 46.0 | 4.700 53 | 0.0 424 | 0.0 Cumulus Licensing Llc | 9.5R | 56.8M |

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"«" = Station meets FCC minimum distance spacing for its class.
"<" = Contour Overlap
^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

FIGURE 6 - KXLP/KIAI INTERFERENCE CONTOURS





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Figure 6A – Tabulated KXLP/KIAI Interference Data

NED 03 SEC Terrain Data

FMOver Analysis

KXLP

Channel = 231A

Max ERP = 3.7 kW

RCAMSL = 413 M

N. Lat. 44 08 31.0

W. Long. 94 00 06.0

Protected

60 dBuV

KIAI BLH19911024KD

Channel = 230C1

Max ERP = 100 kW

RCAMSL = 643 M

N. Lat. 43 10 04.0

W. Long. 93 06 05.0

Interfering

54 dBuV

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBuV) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|------------------|------------|
| 086.0 | 003.7000 | 0107.3 | 026.2 | 337.4 | 100.0000 | 0288.3 | 119.5 | 49.98 | |
| 087.0 | 003.7000 | 0106.9 | 026.2 | 337.3 | 100.0000 | 0288.3 | 119.0 | 50.07 | |
| 088.0 | 003.7000 | 0106.7 | 026.2 | 337.2 | 100.0000 | 0288.3 | 118.6 | 50.17 | |
| 089.0 | 003.7000 | 0106.2 | 026.1 | 337.1 | 100.0000 | 0288.3 | 118.2 | 50.26 | |
| 090.0 | 003.7000 | 0105.5 | 026.0 | 337.0 | 100.0000 | 0288.2 | 117.8 | 50.34 | |
| 091.0 | 003.7000 | 0106.1 | 026.1 | 336.9 | 100.0000 | 0288.2 | 117.4 | 50.44 | |
| 092.0 | 003.7000 | 0107.7 | 026.3 | 336.9 | 100.0000 | 0288.2 | 116.9 | 50.55 | |
| 093.0 | 003.7000 | 0108.2 | 026.3 | 336.8 | 100.0000 | 0288.2 | 116.5 | 50.65 | |
| 094.0 | 003.7000 | 0109.1 | 026.4 | 336.8 | 100.0000 | 0288.2 | 116.0 | 50.76 | |
| 095.0 | 003.7000 | 0109.7 | 026.5 | 336.7 | 100.0000 | 0288.1 | 115.6 | 50.86 | |
| 096.0 | 003.7000 | 0109.8 | 026.5 | 336.6 | 100.0000 | 0288.1 | 115.2 | 50.95 | |
| 097.0 | 003.7000 | 0109.6 | 026.5 | 336.5 | 100.0000 | 0288.1 | 114.8 | 51.04 | |
| 098.0 | 003.7000 | 0109.3 | 026.5 | 336.3 | 100.0000 | 0288.0 | 114.4 | 51.13 | |
| 099.0 | 003.7000 | 0109.7 | 026.5 | 336.2 | 100.0000 | 0288.0 | 114.0 | 51.23 | |
| 100.0 | 003.7000 | 0110.1 | 026.5 | 336.1 | 100.0000 | 0288.0 | 113.6 | 51.33 | |
| 101.0 | 003.7000 | 0110.7 | 026.6 | 336.0 | 100.0000 | 0288.0 | 113.2 | 51.43 | |
| 102.0 | 003.7000 | 0111.6 | 026.7 | 335.9 | 100.0000 | 0288.0 | 112.7 | 51.54 | |
| 103.0 | 003.7000 | 0112.9 | 026.8 | 335.8 | 100.0000 | 0288.0 | 112.3 | 51.65 | |
| 104.0 | 003.7000 | 0113.3 | 026.9 | 335.7 | 100.0000 | 0288.0 | 111.9 | 51.75 | |
| 105.0 | 003.7000 | 0113.0 | 026.8 | 335.5 | 100.0000 | 0288.0 | 111.5 | 51.84 | |
| 106.0 | 003.7000 | 0111.9 | 026.7 | 335.3 | 100.0000 | 0288.1 | 111.3 | 51.92 | |
| 107.0 | 003.7000 | 0110.9 | 026.6 | 335.1 | 100.0000 | 0288.1 | 111.0 | 51.99 | |
| 108.0 | 003.7000 | 0111.6 | 026.7 | 335.0 | 100.0000 | 0288.1 | 110.6 | 52.09 | |
| 109.0 | 003.7000 | 0111.9 | 026.7 | 334.8 | 100.0000 | 0288.2 | 110.2 | 52.19 | |
| 110.0 | 003.7000 | 0112.7 | 026.8 | 334.7 | 100.0000 | 0288.2 | 109.8 | 52.30 | |
| 111.0 | 003.7000 | 0113.3 | 026.9 | 334.5 | 100.0000 | 0288.3 | 109.5 | 52.40 | |
| 112.0 | 003.7000 | 0113.5 | 026.9 | 334.3 | 100.0000 | 0288.3 | 109.1 | 52.49 | |
| 113.0 | 003.7000 | 0113.5 | 026.9 | 334.2 | 100.0000 | 0288.4 | 108.8 | 52.58 | |
| 114.0 | 003.7000 | 0112.9 | 026.8 | 334.0 | 100.0000 | 0288.4 | 108.6 | 52.65 | |
| 115.0 | 003.7000 | 0112.9 | 026.8 | 333.8 | 100.0000 | 0288.4 | 108.3 | 52.73 | |
| 116.0 | 003.7000 | 0113.0 | 026.8 | 333.6 | 100.0000 | 0288.5 | 108.0 | 52.81 | |
| 117.0 | 003.7000 | 0113.0 | 026.8 | 333.4 | 100.0000 | 0288.5 | 107.7 | 52.89 | |
| 118.0 | 003.7000 | 0113.6 | 026.9 | 333.2 | 100.0000 | 0288.5 | 107.4 | 52.99 | |
| 119.0 | 003.7000 | 0113.2 | 026.9 | 333.0 | 100.0000 | 0288.5 | 107.2 | 53.05 | |
| 120.0 | 003.7000 | 0111.1 | 026.7 | 332.7 | 100.0000 | 0288.5 | 107.1 | 53.07 | |
| 121.0 | 003.7000 | 0109.9 | 026.5 | 332.4 | 100.0000 | 0288.5 | 107.0 | 53.11 | |
| 122.0 | 003.7000 | 0109.4 | 026.5 | 332.2 | 100.0000 | 0288.5 | 106.8 | 53.17 | |
| 123.0 | 003.7000 | 0109.0 | 026.4 | 332.0 | 100.0000 | 0288.5 | 106.6 | 53.22 | |
| 124.0 | 003.7000 | 0108.9 | 026.4 | 331.8 | 100.0000 | 0288.3 | 106.4 | 53.27 | |
| 125.0 | 003.7000 | 0109.6 | 026.5 | 331.6 | 100.0000 | 0288.1 | 106.1 | 53.35 | |

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Figure 6A – Tabulated KXLP/KIAI Interference Data (Continued)

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBuV) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|------------------|------------|
| 126.0 | 003.7000 | 0109.9 | 026.5 | 331.4 | 100.0000 | 0287.9 | 105.9 | 53.41 | |
| 127.0 | 003.7000 | 0110.2 | 026.6 | 331.1 | 100.0000 | 0287.6 | 105.7 | 53.47 | |
| 128.0 | 003.7000 | 0111.0 | 026.6 | 330.9 | 100.0000 | 0287.3 | 105.4 | 53.53 | |
| 129.0 | 003.7000 | 0111.7 | 026.7 | 330.7 | 100.0000 | 0287.0 | 105.2 | 53.60 | |
| 130.0 | 003.7000 | 0111.9 | 026.7 | 330.5 | 100.0000 | 0286.7 | 105.0 | 53.64 | |
| 131.0 | 003.7000 | 0112.0 | 026.7 | 330.2 | 100.0000 | 0286.3 | 104.8 | 53.68 | |
| 132.0 | 003.7000 | 0111.9 | 026.7 | 330.0 | 100.0000 | 0285.9 | 104.7 | 53.71 | |
| 133.0 | 003.7000 | 0112.2 | 026.8 | 329.7 | 100.0000 | 0285.5 | 104.5 | 53.75 | |
| 134.0 | 003.7000 | 0111.7 | 026.7 | 329.5 | 100.0000 | 0285.1 | 104.4 | 53.76 | |
| 135.0 | 003.7000 | 0111.5 | 026.7 | 329.2 | 100.0000 | 0284.8 | 104.3 | 53.78 | |
| 136.0 | 003.7000 | 0111.5 | 026.7 | 329.0 | 100.0000 | 0284.6 | 104.2 | 53.80 | |
| 137.0 | 003.7000 | 0111.6 | 026.7 | 328.7 | 100.0000 | 0284.3 | 104.1 | 53.83 | |
| 138.0 | 003.7000 | 0111.4 | 026.7 | 328.5 | 100.0000 | 0284.0 | 104.1 | 53.84 | |
| 139.0 | 003.7000 | 0111.4 | 026.7 | 328.2 | 100.0000 | 0283.6 | 104.0 | 53.85 | |
| 140.0 | 003.7000 | 0111.4 | 026.7 | 328.0 | 100.0000 | 0283.2 | 103.9 | 53.86 | |
| 141.0 | 003.7000 | 0111.2 | 026.7 | 327.7 | 100.0000 | 0282.9 | 103.9 | 53.86 | |
| 142.0 | 003.7000 | 0112.8 | 026.8 | 327.5 | 100.0000 | 0282.7 | 103.7 | 53.92 | |
| 143.0 | 003.7000 | 0113.1 | 026.9 | 327.2 | 100.0000 | 0282.5 | 103.6 | 53.93 | |
| 144.0 | 003.7000 | 0113.8 | 026.9 | 327.0 | 100.0000 | 0282.5 | 103.5 | 53.96 | |
| 145.0 | 003.7000 | 0112.7 | 026.8 | 326.7 | 100.0000 | 0282.5 | 103.6 | 53.93 | |
| 146.0 | 003.7000 | 0112.2 | 026.8 | 326.5 | 100.0000 | 0282.6 | 103.6 | 53.92 | |
| 147.0 | 003.7000 | 0111.7 | 026.7 | 326.2 | 100.0000 | 0282.7 | 103.7 | 53.91 | |
| 148.0 | 003.7000 | 0111.9 | 026.7 | 325.9 | 100.0000 | 0282.9 | 103.7 | 53.91 | |
| 149.0 | 003.7000 | 0111.7 | 026.7 | 325.7 | 100.0000 | 0283.0 | 103.7 | 53.90 | |
| 150.0 | 003.7000 | 0111.0 | 026.6 | 325.4 | 100.0000 | 0283.2 | 103.8 | 53.88 | |
| 151.0 | 003.7000 | 0111.1 | 026.6 | 325.2 | 100.0000 | 0283.4 | 103.9 | 53.87 | |
| 152.0 | 003.7000 | 0110.9 | 026.6 | 324.9 | 100.0000 | 0283.7 | 104.0 | 53.86 | |
| 153.0 | 003.7000 | 0111.0 | 026.6 | 324.7 | 100.0000 | 0283.9 | 104.0 | 53.84 | |
| 154.0 | 003.7000 | 0110.6 | 026.6 | 324.4 | 100.0000 | 0284.1 | 104.1 | 53.82 | |
| 155.0 | 003.7000 | 0110.4 | 026.6 | 324.2 | 100.0000 | 0284.4 | 104.2 | 53.79 | |
| 156.0 | 003.7000 | 0111.1 | 026.6 | 323.9 | 100.0000 | 0284.6 | 104.3 | 53.79 | |
| 157.0 | 003.7000 | 0110.8 | 026.6 | 323.7 | 100.0000 | 0284.7 | 104.4 | 53.75 | |
| 158.0 | 003.7000 | 0111.0 | 026.6 | 323.4 | 100.0000 | 0284.9 | 104.5 | 53.73 | |
| 159.0 | 003.7000 | 0111.0 | 026.6 | 323.2 | 100.0000 | 0285.0 | 104.6 | 53.70 | |
| 160.0 | 003.7000 | 0110.8 | 026.6 | 323.0 | 100.0000 | 0285.3 | 104.8 | 53.66 | |
| 161.0 | 003.7000 | 0111.0 | 026.6 | 322.7 | 100.0000 | 0285.5 | 104.9 | 53.63 | |
| 162.0 | 003.7000 | 0111.4 | 026.7 | 322.5 | 100.0000 | 0285.7 | 105.0 | 53.60 | |
| 163.0 | 003.7000 | 0110.9 | 026.6 | 322.2 | 100.0000 | 0285.9 | 105.2 | 53.55 | |
| 164.0 | 003.7000 | 0111.1 | 026.6 | 322.0 | 100.0000 | 0286.1 | 105.4 | 53.50 | |
| 165.0 | 003.7000 | 0111.1 | 026.6 | 321.8 | 100.0000 | 0286.3 | 105.6 | 53.46 | |
| 166.0 | 003.7000 | 0111.5 | 026.7 | 321.5 | 100.0000 | 0286.4 | 105.7 | 53.41 | |
| 167.0 | 003.7000 | 0111.6 | 026.7 | 321.3 | 100.0000 | 0286.5 | 105.9 | 53.36 | |
| 168.0 | 003.7000 | 0112.3 | 026.8 | 321.1 | 100.0000 | 0286.7 | 106.1 | 53.32 | |
| 169.0 | 003.7000 | 0114.8 | 027.0 | 320.8 | 100.0000 | 0286.9 | 106.0 | 53.33 | |
| 170.0 | 003.7000 | 0116.4 | 027.2 | 320.5 | 100.0000 | 0287.1 | 106.1 | 53.31 | |
| 171.0 | 003.7000 | 0117.2 | 027.3 | 320.3 | 100.0000 | 0287.3 | 106.3 | 53.27 | |
| 172.0 | 003.7000 | 0119.0 | 027.4 | 320.0 | 100.0000 | 0287.6 | 106.4 | 53.24 | |
| 173.0 | 003.7000 | 0121.5 | 027.7 | 319.7 | 100.0000 | 0287.8 | 106.5 | 53.23 | |
| 174.0 | 003.7000 | 0122.4 | 027.8 | 319.5 | 100.0000 | 0287.9 | 106.7 | 53.17 | |
| 175.0 | 003.7000 | 0122.7 | 027.8 | 319.3 | 100.0000 | 0288.1 | 107.0 | 53.10 | |



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Figure 6A – Tabulated KXLP/KIAI Interference Data (Continued)

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBuV) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|------------------|------------|
| 176.0 | 003.7000 | 0125.2 | 028.0 | 319.0 | 100.0000 | 0288.4 | 107.1 | 53.08 | |
| 177.0 | 003.7000 | 0124.5 | 027.9 | 318.8 | 100.0000 | 0288.6 | 107.4 | 52.98 | |
| 178.0 | 003.7000 | 0122.5 | 027.8 | 318.7 | 100.0000 | 0288.7 | 107.9 | 52.86 | |
| 179.0 | 003.7000 | 0120.2 | 027.6 | 318.5 | 100.0000 | 0288.8 | 108.3 | 52.73 | |
| 180.0 | 003.7000 | 0119.3 | 027.5 | 318.4 | 100.0000 | 0288.9 | 108.7 | 52.62 | |
| 181.0 | 003.7000 | 0120.4 | 027.6 | 318.2 | 100.0000 | 0289.0 | 109.0 | 52.56 | |
| 182.0 | 003.7000 | 0119.0 | 027.4 | 318.0 | 100.0000 | 0289.0 | 109.4 | 52.44 | |
| 183.0 | 003.7000 | 0118.0 | 027.3 | 317.9 | 100.0000 | 0289.0 | 109.8 | 52.33 | |
| 184.0 | 003.7000 | 0116.8 | 027.2 | 317.8 | 100.0000 | 0289.0 | 110.2 | 52.22 | |
| 185.0 | 003.7000 | 0115.4 | 027.1 | 317.7 | 100.0000 | 0289.0 | 110.7 | 52.10 | |
| 186.0 | 003.7000 | 0114.3 | 027.0 | 317.5 | 100.0000 | 0289.0 | 111.1 | 51.99 | |
| 187.0 | 003.7000 | 0115.5 | 027.1 | 317.3 | 100.0000 | 0289.0 | 111.4 | 51.91 | |
| 188.0 | 003.7000 | 0117.1 | 027.3 | 317.1 | 100.0000 | 0289.0 | 111.6 | 51.84 | |
| 189.0 | 003.7000 | 0119.8 | 027.5 | 316.9 | 100.0000 | 0289.1 | 111.9 | 51.79 | |
| 190.0 | 003.7000 | 0123.0 | 027.8 | 316.6 | 100.0000 | 0289.2 | 112.1 | 51.74 | |
| 191.0 | 003.7000 | 0124.8 | 028.0 | 316.4 | 100.0000 | 0289.2 | 112.4 | 51.66 | |
| 192.0 | 003.7000 | 0128.1 | 028.3 | 316.1 | 100.0000 | 0289.3 | 112.6 | 51.60 | |
| 193.0 | 003.7000 | 0131.9 | 028.6 | 315.8 | 100.0000 | 0289.3 | 112.8 | 51.55 | |
| 194.0 | 003.7000 | 0133.8 | 028.8 | 315.6 | 100.0000 | 0289.3 | 113.2 | 51.47 | |
| 195.0 | 003.7000 | 0131.4 | 028.6 | 315.6 | 100.0000 | 0289.3 | 113.7 | 51.33 | |
| 196.0 | 003.7000 | 0128.6 | 028.3 | 315.6 | 100.0000 | 0289.3 | 114.3 | 51.20 | |
| 197.0 | 003.7000 | 0125.0 | 028.0 | 315.6 | 100.0000 | 0289.3 | 114.9 | 51.06 | |
| 198.0 | 003.7000 | 0121.8 | 027.7 | 315.6 | 100.0000 | 0289.3 | 115.4 | 50.93 | |
| 199.0 | 003.7000 | 0119.5 | 027.5 | 315.6 | 100.0000 | 0289.3 | 115.9 | 50.80 | |
| 200.0 | 003.7000 | 0118.0 | 027.3 | 315.6 | 100.0000 | 0289.3 | 116.4 | 50.69 | |
| 201.0 | 003.7000 | 0117.2 | 027.3 | 315.5 | 100.0000 | 0289.3 | 116.9 | 50.58 | |
| 202.0 | 003.7000 | 0116.5 | 027.2 | 315.5 | 100.0000 | 0289.3 | 117.4 | 50.48 | |
| 203.0 | 003.7000 | 0115.8 | 027.1 | 315.4 | 100.0000 | 0289.3 | 117.8 | 50.37 | |
| 204.0 | 003.7000 | 0115.0 | 027.0 | 315.4 | 100.0000 | 0289.3 | 118.3 | 50.27 | |
| 205.0 | 003.7000 | 0114.8 | 027.0 | 315.3 | 100.0000 | 0289.4 | 118.7 | 50.17 | |
| 206.0 | 003.7000 | 0114.5 | 027.0 | 315.3 | 100.0000 | 0289.4 | 119.2 | 50.07 | |

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Figure 6A – Tabulated KXLP/KIAI Interference Data (Continued)

NED 03 SEC Terrain Data

KIAI BLH19911024KD
Channel = 230C1
Max ERP = 100 kW
RCAMSL = 643 M
N. Lat. 43 10 04.0
W. Long. 93 06 05.0
Protected
60 dBuV

KXLP
Channel = 231A
Max ERP = 3.7 kW
RCAMSL = 413 M
N. Lat. 44 08 31.0
W. Long. 94 00 06.0
Interfering
54 dBuV

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 267.0 | 100.0000 | 0298.9 | 072.3 | 179.8 | 003.7000 | 0119.3 | 112.0 | 32.62 | |
| 268.0 | 100.0000 | 0298.2 | 072.2 | 179.8 | 003.7000 | 0119.3 | 110.8 | 32.86 | |
| 269.0 | 100.0000 | 0298.2 | 072.2 | 179.8 | 003.7000 | 0119.3 | 109.5 | 33.11 | |
| 270.0 | 100.0000 | 0298.3 | 072.3 | 179.8 | 003.7000 | 0119.3 | 108.2 | 33.37 | |
| 271.0 | 100.0000 | 0297.9 | 072.2 | 179.8 | 003.7000 | 0119.3 | 107.0 | 33.63 | |
| 272.0 | 100.0000 | 0298.2 | 072.2 | 179.8 | 003.7000 | 0119.3 | 105.7 | 33.90 | |
| 273.0 | 100.0000 | 0298.1 | 072.2 | 179.7 | 003.7000 | 0119.3 | 104.5 | 34.18 | |
| 274.0 | 100.0000 | 0297.5 | 072.2 | 179.7 | 003.7000 | 0119.3 | 103.2 | 34.46 | |
| 275.0 | 100.0000 | 0297.1 | 072.2 | 179.6 | 003.7000 | 0119.4 | 101.9 | 34.76 | |
| 276.0 | 100.0000 | 0297.7 | 072.2 | 179.6 | 003.7000 | 0119.4 | 100.7 | 35.05 | |
| 277.0 | 100.0000 | 0298.2 | 072.2 | 179.5 | 003.7000 | 0119.5 | 099.4 | 35.36 | |
| 278.0 | 100.0000 | 0299.1 | 072.3 | 179.4 | 003.7000 | 0119.5 | 098.2 | 35.68 | |
| 279.0 | 100.0000 | 0299.5 | 072.3 | 179.3 | 003.7000 | 0119.6 | 096.9 | 36.00 | |
| 280.0 | 100.0000 | 0298.7 | 072.3 | 179.2 | 003.7000 | 0119.9 | 095.7 | 36.33 | |
| 281.0 | 100.0000 | 0298.5 | 072.3 | 179.0 | 003.7000 | 0120.2 | 094.5 | 36.66 | |
| 282.0 | 100.0000 | 0298.0 | 072.2 | 178.8 | 003.7000 | 0120.7 | 093.2 | 37.01 | |
| 283.0 | 100.0000 | 0297.6 | 072.2 | 178.6 | 003.7000 | 0121.2 | 092.0 | 37.36 | |
| 284.0 | 100.0000 | 0297.1 | 072.2 | 178.4 | 003.7000 | 0121.7 | 090.8 | 37.72 | |
| 285.0 | 100.0000 | 0298.7 | 072.3 | 178.3 | 003.7000 | 0122.0 | 089.6 | 38.08 | |
| 286.0 | 100.0000 | 0302.0 | 072.5 | 178.2 | 003.7000 | 0122.2 | 088.3 | 38.44 | |
| 287.0 | 100.0000 | 0303.5 | 072.7 | 178.0 | 003.7000 | 0122.5 | 087.0 | 38.81 | |
| 288.0 | 100.0000 | 0303.2 | 072.6 | 177.7 | 003.7000 | 0122.9 | 085.9 | 39.17 | |
| 289.0 | 100.0000 | 0301.5 | 072.5 | 177.3 | 003.7000 | 0123.4 | 084.7 | 39.52 | |
| 290.0 | 100.0000 | 0301.2 | 072.5 | 177.0 | 003.7000 | 0124.6 | 083.6 | 39.90 | |
| 291.0 | 100.0000 | 0302.0 | 072.5 | 176.7 | 003.7000 | 0125.1 | 082.4 | 40.27 | |
| 292.0 | 100.0000 | 0300.4 | 072.4 | 176.2 | 003.7000 | 0125.3 | 081.3 | 40.60 | |
| 293.0 | 100.0000 | 0299.0 | 072.3 | 175.8 | 003.7000 | 0125.0 | 080.2 | 40.90 | |
| 294.0 | 100.0000 | 0298.0 | 072.2 | 175.3 | 003.7000 | 0123.6 | 079.1 | 41.15 | |
| 295.0 | 100.0000 | 0297.3 | 072.2 | 174.8 | 003.7000 | 0122.4 | 078.1 | 41.41 | |
| 296.0 | 100.0000 | 0296.9 | 072.1 | 174.3 | 003.7000 | 0122.3 | 077.0 | 41.72 | |
| 297.0 | 100.0000 | 0296.6 | 072.1 | 173.8 | 003.7000 | 0122.6 | 075.9 | 42.05 | |
| 298.0 | 100.0000 | 0296.2 | 072.1 | 173.2 | 003.7000 | 0122.0 | 074.9 | 42.32 | |
| 299.0 | 100.0000 | 0295.5 | 072.0 | 172.6 | 003.7000 | 0120.6 | 073.9 | 42.55 | |
| 300.0 | 100.0000 | 0294.3 | 071.9 | 172.0 | 003.7000 | 0118.9 | 073.0 | 42.75 | |
| 301.0 | 100.0000 | 0293.4 | 071.9 | 171.3 | 003.7000 | 0117.6 | 072.0 | 42.96 | |
| 302.0 | 100.0000 | 0292.5 | 071.8 | 170.6 | 003.7000 | 0116.9 | 071.1 | 43.20 | |
| 303.0 | 100.0000 | 0291.8 | 071.7 | 169.9 | 003.7000 | 0116.3 | 070.2 | 43.44 | |
| 304.0 | 100.0000 | 0291.3 | 071.7 | 169.2 | 003.7000 | 0115.3 | 069.4 | 43.66 | |
| 305.0 | 100.0000 | 0291.1 | 071.7 | 168.5 | 003.7000 | 0113.6 | 068.5 | 43.83 | |

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Figure 6A – Tabulated KXLP/KIAI Interference Data (Continued)

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBuV) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|------------------|------------|
| 306.0 | 100.0000 | 0291.4 | 071.7 | 167.7 | 003.7000 | 0111.7 | 067.6 | 43.99 | |
| 307.0 | 100.0000 | 0291.3 | 071.7 | 166.9 | 003.7000 | 0111.6 | 066.8 | 44.24 | |
| 308.0 | 100.0000 | 0291.0 | 071.7 | 166.0 | 003.7000 | 0111.5 | 066.1 | 44.47 | |
| 309.0 | 100.0000 | 0291.0 | 071.7 | 165.2 | 003.7000 | 0111.2 | 065.3 | 44.69 | |
| 310.0 | 100.0000 | 0291.3 | 071.7 | 164.3 | 003.7000 | 0111.1 | 064.6 | 44.92 | |
| 311.0 | 100.0000 | 0291.4 | 071.7 | 163.4 | 003.7000 | 0110.9 | 063.9 | 45.13 | |
| 312.0 | 100.0000 | 0291.1 | 071.7 | 162.4 | 003.7000 | 0111.6 | 063.2 | 45.37 | |
| 313.0 | 100.0000 | 0290.5 | 071.6 | 161.4 | 003.7000 | 0111.1 | 062.7 | 45.54 | |
| 314.0 | 100.0000 | 0290.1 | 071.6 | 160.4 | 003.7000 | 0110.9 | 062.1 | 45.71 | |
| 315.0 | 100.0000 | 0289.5 | 071.5 | 159.3 | 003.7000 | 0110.9 | 061.6 | 45.88 | |
| 316.0 | 100.0000 | 0289.3 | 071.5 | 158.2 | 003.7000 | 0111.0 | 061.1 | 46.05 | |
| 317.0 | 100.0000 | 0289.1 | 071.5 | 157.1 | 003.7000 | 0110.7 | 060.7 | 46.19 | |
| 318.0 | 100.0000 | 0289.0 | 071.5 | 156.0 | 003.7000 | 0111.1 | 060.3 | 46.35 | |
| 319.0 | 100.0000 | 0288.4 | 071.5 | 154.9 | 003.7000 | 0110.4 | 060.0 | 46.43 | |
| 320.0 | 100.0000 | 0287.6 | 071.4 | 153.7 | 003.7000 | 0110.7 | 059.7 | 46.54 | |
| 321.0 | 100.0000 | 0286.7 | 071.3 | 152.5 | 003.7000 | 0110.9 | 059.5 | 46.62 | |
| 322.0 | 100.0000 | 0286.1 | 071.3 | 151.3 | 003.7000 | 0111.1 | 059.3 | 46.70 | |
| 323.0 | 100.0000 | 0285.2 | 071.2 | 150.1 | 003.7000 | 0111.0 | 059.2 | 46.73 | |
| 324.0 | 100.0000 | 0284.5 | 071.1 | 148.9 | 003.7000 | 0111.7 | 059.2 | 46.80 | |
| 325.0 | 100.0000 | 0283.6 | 071.1 | 147.7 | 003.7000 | 0112.0 | 059.2 | 46.82 | |
| 326.0 | 100.0000 | 0282.8 | 071.0 | 146.5 | 003.7000 | 0111.8 | 059.2 | 46.80 | |
| 327.0 | 100.0000 | 0282.5 | 071.0 | 145.3 | 003.7000 | 0112.4 | 059.2 | 46.82 | |
| 328.0 | 100.0000 | 0283.3 | 071.0 | 144.1 | 003.7000 | 0113.8 | 059.2 | 46.91 | |
| 329.0 | 100.0000 | 0284.6 | 071.1 | 142.9 | 003.7000 | 0113.0 | 059.2 | 46.86 | |
| 330.0 | 100.0000 | 0286.0 | 071.3 | 141.7 | 003.7000 | 0112.2 | 059.2 | 46.80 | |
| 331.0 | 100.0000 | 0287.4 | 071.4 | 140.5 | 003.7000 | 0111.4 | 059.3 | 46.72 | |
| 332.0 | 100.0000 | 0288.5 | 071.5 | 139.3 | 003.7000 | 0111.5 | 059.5 | 46.67 | |
| 333.0 | 100.0000 | 0288.5 | 071.5 | 138.1 | 003.7000 | 0111.4 | 059.8 | 46.56 | |
| 334.0 | 100.0000 | 0288.4 | 071.5 | 137.0 | 003.7000 | 0111.6 | 060.1 | 46.45 | |
| 335.0 | 100.0000 | 0288.1 | 071.4 | 135.9 | 003.7000 | 0111.5 | 060.5 | 46.30 | |
| 336.0 | 100.0000 | 0288.0 | 071.4 | 134.8 | 003.7000 | 0111.6 | 061.0 | 46.15 | |
| 337.0 | 100.0000 | 0288.2 | 071.4 | 133.7 | 003.7000 | 0112.0 | 061.4 | 46.01 | |
| 338.0 | 100.0000 | 0288.5 | 071.5 | 132.6 | 003.7000 | 0112.2 | 061.9 | 45.86 | |
| 339.0 | 100.0000 | 0288.5 | 071.5 | 131.6 | 003.7000 | 0111.9 | 062.5 | 45.65 | |
| 340.0 | 100.0000 | 0288.8 | 071.5 | 130.6 | 003.7000 | 0112.0 | 063.0 | 45.47 | |
| 341.0 | 100.0000 | 0288.9 | 071.5 | 129.6 | 003.7000 | 0111.8 | 063.6 | 45.25 | |
| 342.0 | 100.0000 | 0289.3 | 071.5 | 128.6 | 003.7000 | 0111.4 | 064.3 | 45.02 | |
| 343.0 | 100.0000 | 0290.1 | 071.6 | 127.7 | 003.7000 | 0110.8 | 064.9 | 44.78 | |
| 344.0 | 100.0000 | 0290.8 | 071.7 | 126.7 | 003.7000 | 0110.0 | 065.6 | 44.52 | |
| 345.0 | 100.0000 | 0292.0 | 071.7 | 125.8 | 003.7000 | 0109.9 | 066.3 | 44.30 | |
| 346.0 | 100.0000 | 0293.4 | 071.9 | 124.9 | 003.7000 | 0109.6 | 067.0 | 44.06 | |
| 347.0 | 100.0000 | 0294.4 | 071.9 | 124.1 | 003.7000 | 0109.0 | 067.8 | 43.79 | |
| 348.0 | 100.0000 | 0295.3 | 072.0 | 123.3 | 003.7000 | 0108.9 | 068.6 | 43.54 | |
| 349.0 | 100.0000 | 0295.6 | 072.0 | 122.5 | 003.7000 | 0109.1 | 069.5 | 43.28 | |
| 350.0 | 100.0000 | 0296.3 | 072.1 | 121.8 | 003.7000 | 0109.6 | 070.4 | 43.04 | |
| 351.0 | 100.0000 | 0297.0 | 072.1 | 121.1 | 003.7000 | 0109.9 | 071.3 | 42.78 | |
| 352.0 | 100.0000 | 0297.0 | 072.1 | 120.4 | 003.7000 | 0110.4 | 072.3 | 42.52 | |
| 353.0 | 100.0000 | 0296.2 | 072.1 | 119.8 | 003.7000 | 0111.5 | 073.3 | 42.27 | |
| 354.0 | 100.0000 | 0295.5 | 072.0 | 119.3 | 003.7000 | 0112.7 | 074.3 | 42.02 | |
| 355.0 | 100.0000 | 0295.3 | 072.0 | 118.8 | 003.7000 | 0113.4 | 075.4 | 41.75 | |
| 356.0 | 100.0000 | 0295.3 | 072.0 | 118.2 | 003.7000 | 0113.6 | 076.4 | 41.45 | |



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Figure 6A – Tabulated KXLP/KIAI Interference Data (Continued)

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBuV) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|------------------|------------|
| 357.0 | 100.0000 | 0294.8 | 072.0 | 117.8 | 003.7000 | 0113.6 | 077.5 | 41.14 | |
| 358.0 | 100.0000 | 0294.1 | 071.9 | 117.3 | 003.7000 | 0113.5 | 078.6 | 40.81 | |
| 359.0 | 100.0000 | 0293.5 | 071.9 | 116.9 | 003.7000 | 0112.9 | 079.8 | 40.46 | |
| 000.0 | 100.0000 | 0292.7 | 071.8 | 116.5 | 003.7000 | 0112.7 | 080.9 | 40.12 | |
| 001.0 | 100.0000 | 0291.9 | 071.7 | 116.2 | 003.7000 | 0113.0 | 082.1 | 39.80 | |
| 002.0 | 100.0000 | 0291.3 | 071.7 | 115.8 | 003.7000 | 0113.0 | 083.2 | 39.48 | |
| 003.0 | 100.0000 | 0291.1 | 071.7 | 115.5 | 003.7000 | 0113.0 | 084.4 | 39.15 | |
| 004.0 | 100.0000 | 0291.4 | 071.7 | 115.2 | 003.7000 | 0112.9 | 085.5 | 38.81 | |
| 005.0 | 100.0000 | 0291.4 | 071.7 | 114.9 | 003.7000 | 0112.8 | 086.7 | 38.48 | |
| 006.0 | 100.0000 | 0291.5 | 071.7 | 114.6 | 003.7000 | 0112.8 | 087.9 | 38.15 | |
| 007.0 | 100.0000 | 0291.6 | 071.7 | 114.3 | 003.7000 | 0112.8 | 089.1 | 37.82 | |
| 008.0 | 100.0000 | 0291.1 | 071.7 | 114.1 | 003.7000 | 0112.9 | 090.3 | 37.49 | |
| 009.0 | 100.0000 | 0290.6 | 071.6 | 113.9 | 003.7000 | 0113.0 | 091.5 | 37.16 | |
| 010.0 | 100.0000 | 0290.1 | 071.6 | 113.7 | 003.7000 | 0113.1 | 092.7 | 36.84 | |
| 011.0 | 100.0000 | 0289.5 | 071.5 | 113.6 | 003.7000 | 0113.3 | 093.9 | 36.52 | |
| 012.0 | 100.0000 | 0288.7 | 071.5 | 113.4 | 003.7000 | 0113.4 | 095.2 | 36.20 | |
| 013.0 | 100.0000 | 0288.5 | 071.5 | 113.3 | 003.7000 | 0113.4 | 096.4 | 35.88 | |
| 014.0 | 100.0000 | 0288.3 | 071.4 | 113.2 | 003.7000 | 0113.5 | 097.6 | 35.57 | |
| 015.0 | 100.0000 | 0288.4 | 071.5 | 113.1 | 003.7000 | 0113.5 | 098.9 | 35.27 | |
| 016.0 | 100.0000 | 0287.8 | 071.4 | 113.0 | 003.7000 | 0113.5 | 100.1 | 34.97 | |
| 017.0 | 100.0000 | 0286.8 | 071.3 | 112.9 | 003.7000 | 0113.6 | 101.4 | 34.68 | |
| 018.0 | 100.0000 | 0286.0 | 071.3 | 112.9 | 003.7000 | 0113.6 | 102.6 | 34.39 | |
| 019.0 | 100.0000 | 0285.2 | 071.2 | 112.9 | 003.7000 | 0113.6 | 103.8 | 34.11 | |
| 020.0 | 100.0000 | 0284.7 | 071.1 | 112.8 | 003.7000 | 0113.6 | 105.1 | 33.84 | |
| 021.0 | 100.0000 | 0284.4 | 071.1 | 112.8 | 003.7000 | 0113.6 | 106.3 | 33.58 | |
| 022.0 | 100.0000 | 0283.9 | 071.1 | 112.8 | 003.7000 | 0113.7 | 107.6 | 33.32 | |
| 023.0 | 100.0000 | 0283.4 | 071.0 | 112.8 | 003.7000 | 0113.6 | 108.8 | 33.06 | |
| 024.0 | 100.0000 | 0282.9 | 071.0 | 112.8 | 003.7000 | 0113.6 | 110.1 | 32.81 | |
| 025.0 | 100.0000 | 0282.2 | 070.9 | 112.9 | 003.7000 | 0113.6 | 111.3 | 32.57 | |
| 026.0 | 100.0000 | 0281.8 | 070.9 | 112.9 | 003.7000 | 0113.6 | 112.5 | 32.34 | |
| 027.0 | 100.0000 | 0282.0 | 070.9 | 112.9 | 003.7000 | 0113.6 | 113.8 | 32.11 | |

