

**Goldman Engineering Management
Auburn, CA**

ENGINEERING EXHIBIT
IN SUPPORT OF AN
APPLICATION FOR CONSTRUCTION PERMIT
KDWN – LAS VEGAS, NEVADA
(Requesting) 720KHZ – Class B, 25KW DAY/ 7.5KW NIGHT – DA-2
CDBS FACILITY ID: 54686

Applicant: Beasley Media Group Licenses, LLC

JUNE, 2019

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GENERAL

Goldman Engineering has been authorized by Beasley Media Group Licenses, LLC. (“Beasley”), licensee of Standard Broadcast Station, KDWN, Las Vegas, NV, to prepare this Engineering Statement, FCC Form 301 (Section III), and the attached figures in support of an application for Construction Permit to relocate the KDWN antenna system 22.6 kilometers northwest of the existing site and make changes to the nighttime directional patterns, to decrease the daytime power to 25kW from 50kW, and decrease nighttime power from 50kW to 7.5kW. KDWN is licensed to operate on 720kHz. Beasley wishes to duplex into portions of the existing antenna system for station KXST, 1140kHz, 10kW Day, 2.5kW night.

ANTENNA SYSTEM AND DIRECTIONAL PATTERNS

This application proposes no new tower construction on the KXST property. The present KXST antenna system consists of a total of four, 74.7m OAGL insulated, series excited, uniform cross-section, guyed, vertical steel towers. There is a fifth tower, 91.1m OAGL which will ultimately be used to add another AM station but currently is used only for FM auxiliary antennas. It also uniform cross-section, guyed and insulated. KDWN will operate from the fifth, 91.1m tower, non-directionally during daytime hours and will use the center two KXST towers along with the 91.1-meter tower for nighttime operation. Filters and detuning networks as appropriate will be added to all five towers on the KXST property. The tower drawing for night towers 1 and 3 is attached as Figure 1. The tower drawing for the non-directional day (and night tower 2) is Figure 2. Relative orientations are shown in Figure 3. At 720kHz, the four KXST towers are 73.2m above the base insulators and 74.7m OAGL. These towers are 63.3 electrical degrees in height at 720kHz.

The KDWN non-directional daytime tower, and the tower designated as KDWN tower #2 at night is 89.3 meters above the base insulator and 91.1meters OAGL. This tower is 77.2 degrees at 720kHz.

The proposed KDWN Daytime Distance to contour table is shown as Figure 4. The Nighttime horizontal plane standard radiation pattern is shown on the polar graph of Figure 5.

PROPOSED DAYTIME THEORETICAL PARAMETERS					
TOWER	FIELD	PHASE	HEIGHT	SPACING	ORIENTATION
1	1	0	77.2	0	0

- Theoretical RMS for proposed daytime ND operation, 297.6 mV/m per kW@1km

PROPOSED NIGHTTIME THEORETICAL PARAMETERS					
TOWER	FIELD	PHASE	HEIGHT	SPACING	ORIENTATION
1	1	0	63.3	0	0
2	1.1	-113.5	77.2	53.4	209.2
3	0.45	-344.5	63.3	122.3	129.1

- Theoretical RMS for the proposed nighttime array is 812.87mV/m@1km
- Standard Pattern RMS for the proposed nighttime array is 854mV/m@1km

SAMPLE SYSTEM

The proposed sampling system will consist of equal lengths of ½” foam coaxial cable from the antenna monitor to each tower. Each sample line and current sampling transformer will be verified for accuracy of phase and current ratios in accordance with 47CFR § 73.68 and 73.151.

GROUND SYSTEM

It is proposed to use the existing ground system in use for KDWN which also includes the ground system which was installed with the 91.1m tower (ND or Night #2). The description of the

ground system from the original January 1976 KXST (formerly KLUC) 301 application is as follows:

“120 radials 65.7m long (or extended to transverse copper strap or truncated at property boundary) and interspersed with 120 radials 15.2m long around each tower. All radials are #10 copper wire and buried”

The description of the ground system for the added tower (modified from the 2014 KXNT 301 application) is shown below:

“The ground system will consist of 120-89.2 meter equally spaced copper wire radials (except where shortened due to property boundaries or where bonded to a transverse copper strap between towers). A 7.3-meter square ground screen will be located at the base of the 91.1m tower. The new ground radials will tie into the existing KXST ground system wherever possible.”.

A proposed consolidated description for the ground system as specified for KDWN is below:

The KDWN ground system will consist of 120 equally spaced buried #10 copper radials around the base of each tower. For Nighttime towers #1 and #3, the length of the radials will be 65.7m long and there will additionally be 120 radials 15.2 meters long interspersed between the 65.7m radials. For the nighttime tower #2 (and Daytime non-directional tower), the radials will be 89.2 meters long and there will additionally be 120 radials 7.3 meters long interspersed between the 89.2-meter log radials. Radials for all towers will be tied together and bonded to transverse copper strap as appropriate and will be truncated at property boundaries.

A drawing of the ground system is attached as Figure 6.

TOWERS AND REGISTRATION

As described above, tower sketches are included in Figures 1 and 2. All towers are registered. The tower registrations for the two towers being used by KDWN (Towers #1N and #3N) are specified as 4TA2 in ASR 1058337 and 4TA3 in ASR 1058338 for the KXST array. The Daytime tower and tower 2 for the nighttime array is ASR 1291307. The Non-directional daytime tower converted to NAD27 is:

36° 16' 4.2" N, 115° 02' 44.4" W

The Center of Array for the nighttime operation (NAD27) is:

36° 16' 4" N, 115° 02' 42" W

A survey of the towers, spacing between towers and orientation has been completed by Dwyer Engineering, Inc of Las Vegas, NV. A copy of the stamped survey is attached as Figure 19.

BLANKETING INTERFERENCE AND STATION INTERACTION

KDWN will be relocating to an existing facility used by one other radio station, KXST. KXST operates on 1140kHz at 10kW Day and 2.5kW Nighttime. The proposed KDWN facility will operate at 25kW Day and 7.5kW nighttime. The currently licensed KDWN is located in a rapidly expanding residential area. This encroachment of residential buildings is one of the reasons for the relocation of KDWN. As shown in Figure 7, the 1,000mV/m blanketing contour will be limited to an industrial area of North Las Vegas. Based upon the 2010 census, there is well under 300 persons living in the blanketing area. Based upon the above, KDWN will be compliant with 73.24(g).

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.

The proposed KDWN antenna will be combined with the currently licensed KXST facility. Filtering and detuning circuits will be installed and adjusted at the base of each tower, both for the towers being used by KDWN and for the two towers of the KXST array not being used. Measurements will be undertaken following construction to verify that there is no interaction between the stations.

There are no other constructed AM facilities within 3km of the proposed site. There are three auxiliary FM's operating from the top of the non-directional day (tower #2 night) tower. These facilities are isocoupled to the tower and are not expected to interact with the proposed KDWN operation. Measurements as appropriate will be taken including these antennas for any proof using Method of Moments modeling.

COVERAGE CONTOURS

The present and proposed daytime and nighttime service contours are shown on Figure 8. As demonstrated in Figure 9, the proposed day and night 5mV/m contours completely encompass the community of North Las Vegas, NV. The nighttime interference free (NIF) contour of KDWN is 4.34mV/m, so the 5mV/m contour was used for both day and night coverage evaluations.

DAY ALLOCATION

Below is the licensed and proposed daytime contour allocation table for KDWN. The KDWN currently licensed KDWN Daytime facility operates at 50kW non-directionally on 720kHz using a 90-degree tower. The proposed operation, 22.6km north-northwest of the currently licensed

location will operate with 25kW Non-directionally using a less efficient 77.2-degree tower. As shown in the comparative contour overlap tables, there are three stations which, when evaluating using M3 conductivity, overlap protected and interfering contours. They are:

KBMB	710kHz	Black Canyon, AZ
XENVA2	720kHz	San Luis Rio, Sonora, MX
KSPN	710kHz	Los Angeles, CA

As shown in Figures 10,11, and 12, the overlap to each of these facilities will be reduced.

LICENSED KDWN DAY STUDY

AM Daytime Study

Reference Station:

Call: KDWN	Freq: 720 kHz	LAS VEGAS, NV, US
Lat: 36-04-22 N	Power: 50.0 kW	
Lng: 114-58-20 W	Theo RMS: 305.78 mV/m @ 1km	

#	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	90.0	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
KBMB	710	BLACK CANYON	AZ	339.0	131.5	-39332.00	-39136.00
XENVA2	720	SAN LUIS RIO C	SO	398.9	177.4	-72280.00	-20972.00
KSPN	710	LOS ANGELES	CA	377.5	235.1	-19840.00	-18372.00
KSVN	730	OGDEN	UT	621.0	24.8	118.69	98.08
XEENSE4	730	ENSENADA	BN	491.3	197.4	170.01	175.97
XEEBC	730	ENSENADA	BN	488.2	197.8	168.67	177.18
KBRT	740	COSTA MESA	CA	348.2	223.6	210.55	210.55
XENVA2	730	CABORCA	SO	651.9	156.4	213.04	214.63
KIDR	740	PHOENIX	AZ	398.7	139.7	239.34	239.34
KFIA	710	CARMICHAEL	CA	639.3	296.7	260.36	243.99
KDAZ	730	ALBUQUERQUE	NM	757.9	101.3	332.99	311.88
XEJCC	720	CD. JUAREZ	CH	924.6	123.8	267.04	363.95
XENVA2	720	CD. JUAREZ	CH	919.9	123.8	414.94	364.17
KDBI	730	BOISE	ID	834.5	351.6	414.30	413.87
XESOS	730	EL SIFON	SO	722.3	138.7	300.98	433.21
XESOS	730	EL SIFON	SO	722.9	138.6	301.90	434.01
KNUS	710	DENVER	CO	987.0	67.3	571.52	533.35
XEPS	710	EMPALME	SO	981.3	157.5	593.62	593.62
KFIR	720	SWEET HOME	OR	1171.5	321.1	646.29	607.97
KEZX	730	MEDFORD	OR	967.7	313.1	670.94	647.90

PROPOSED KDWN DAY STUDY

AM Daytime Study

Reference Station:

Call: KDWN-PROP

Freq: 720 kHz

LAS VEGAS, NV, US

Lat: 36-16-04.20 N

Power: 25.0 kW

Lng: 115-02-44.40 W

Theo RMS: 297.60 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	77.2	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
KBMB	710	BLACK CANYON	AZ	358.1	133.5	-22800.00	-23284.00
XENVA2	720	SAN LUIS RIO C	SO	420.9	176.7	-48448.00	-16968.00
KSPN	710	LOS ANGELES	CA	384.4	231.9	-11488.00	-10056.00
KSVN	730	OGDEN	UT	603.9	26.2	136.17	119.03
XEENSE4	730	ENSENADA	BN	509.9	196.0	218.57	224.52
XEEBC	730	ENSENADA	BN	506.8	196.3	217.09	225.58
KBRT	740	COSTA MESA	CA	359.4	220.4	237.99	237.99
KFIA	710	CARMICHAEL	CA	622.9	295.2	272.49	261.40
XENVA2	730	CABORCA	SO	674.3	156.7	270.20	272.07
KIDR	740	PHOENIX	AZ	419.4	141.0	280.57	280.57
KDAZ	730	ALBUQUERQUE	NM	767.2	102.9	365.74	349.30
XEJCC	720	CD. JUAREZ	CH	941.0	124.8	311.43	418.29
XENVA2	720	CD. JUAREZ	CH	936.4	124.8	457.36	418.37
KDBI	730	BOISE	ID	812.1	351.8	427.03	431.30
XESOS	730	EL SIFON	SO	742.5	139.5	349.73	482.34
XESOS	730	EL SIFON	SO	743.0	139.5	350.45	482.96
KNUS	710	DENVER	CO	982.6	68.6	586.77	543.34
KFIR	720	SWEET HOME	OR	1149.9	320.7	653.35	629.93
XEPS	710	EMPALME	SO	1003.7	157.6	650.79	650.79
KEZX	730	MEDFORD	OR	947.3	312.5	679.77	661.42

Based upon the above tables, the interference to/from the three stations with licensed overlap is reduced as follows (all other contour relationships are currently compliant and will remain so following the relocation):

	IN	OUT
KBMB,	-16,532	-15,852
XENVA2,	-23,832	- 4,004
KSPN	- 8,352	- 8,316

As demonstrated above, both incoming and outgoing interference to/ from KDWN will be reduced to all pertinent stations as a result of this proposal. As such, this reduction in predicted

interference is in the public interest and is considered compliant with daytime allocation requirements.

CRITICAL HOURS

The frequency 720kHz is a US and Alaskan Class A channel. A critical hours study for pertinent co-channel class A stations WGN and KOTZ on 720kHz is attached as Figure 13.

NIGHTTIME ALLOCATION

The results of the nighttime allocation study are shown in figures 13-17. Figure 14 is a Standard Radiation tabulation of the proposed antenna system for Theta 0 to 60 degrees. Figure 15 is a nighttime Allocation Protections report which includes RSS calculations for co-channel and first adjacent channel stations that may be affected by this proposal. Figure 16 is a Nighttime Radiation Limit Report. The proposed nighttime facility of KDWN will not raise the 25% or 50% RSS limit of any domestic station or the 50% RSS limit of any foreign station.

720kHz is a US Class A and Alaskan Class A channel. WGN, 720kHz in Chicago and KOTZ, 720kHz in Kotzebue, AK are class A stations of concern. The present and proposed 0.025mV/m, 10% skywave contours of KDWN and the 0.5mV/m 50% skywave contour of WGN are shown on map Figure 17. The existing and proposed 0.005mV/m, 10% skywave contours of KDWN and the 0.1mV/m, 50% skywave contour of KOTZ are shown on the map of Figure 18. As shown in the map, the area of overlap of the KDWN interfering contour and the KOTZ 0.1mV/m 50% skywave contour will be significantly reduced.

ENVIRONMENTAL IMPACT

This application for minor change to the KDWN transmission facility proposes that KDWN be diplexed into the existing towers used by KXST as well as a tower constructed but currently only used for FM auxiliary purposes. No additional towers, and no additional ground system will be constructed. Consequently, other than Section 1.1307(b) with respect to RF radiation, the proposed installation by KDWN is categorically excluded from environmental processing by note 3 of Section 1.1306 of the Commission's rules.

COMPLIANCE WITH RF RADIATION REGULATIONS

Access to the property where the towers are located is restricted by a fence around the entire property. Each of the towers are surrounded by a six-foot chain-link fence. Fence gates are locked at all times except when station personnel are performing maintenance within the restricted access area. Appropriate warning signs are posted at regular intervals warning of high radio frequency energy levels within the fenced areas. The fence surrounding each tower restricts the access to no less than 4.3 meters from any tower.

With respect to RF Radiation limits based upon the FM auxiliary facilities operating at the site, an RF analysis was conducted in conjunction with the applications for auxiliary facilities for FM stations KMXB (FM), KLUC-FM, KXNT-FM, and KXTE (FM). It was determined that using the ERI SHPX-8C6, 8-bay full-wave spaced antenna, the FM auxiliaries will produce at worst-case 33.1% of the ANSI limit for uncontrolled exposure.

With respect to KDWN, Table 2 of Supplement A (Edition 97-01) to OET Bulletin 65 (Edition 97-01) was used to provide compliance distances for tower heights of 0.25 wavelength. The non-directional 25kW tower will be 0.2 Wavelength at 720kHz. The closest table to predict compliance will be Table 2 and the most restrictive 50kW column indicating 4m spacing around

the tower base will be used. The fence around the non-directional 25kW daytime tower for KDWN will be verified to be at least 4m from the base of the tower. With respect to nighttime operation, it is expected that the existing fences around the KXST towers which are a minimum 2.5 meters from the tower bases of KDWN Towers 1 and 3 will provide sufficient protection for public exposure.

As stated above access to the area surrounding the base of each of the KDWN and KXST towers will be restricted to authorized maintenance personnel only. The licensees of both AM stations and all FM stations at the site, in a cooperative effort, will institute joint procedures to ensure protection of station personnel and tower contractors working on or in the immediate vicinity of the towers.

CERTIFICATION

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.



Bertram S. Goldman
Goldman Engineering Management

Figure 1- KDWN Tower #1, Tower #3, NIGHTTIME OPERATION

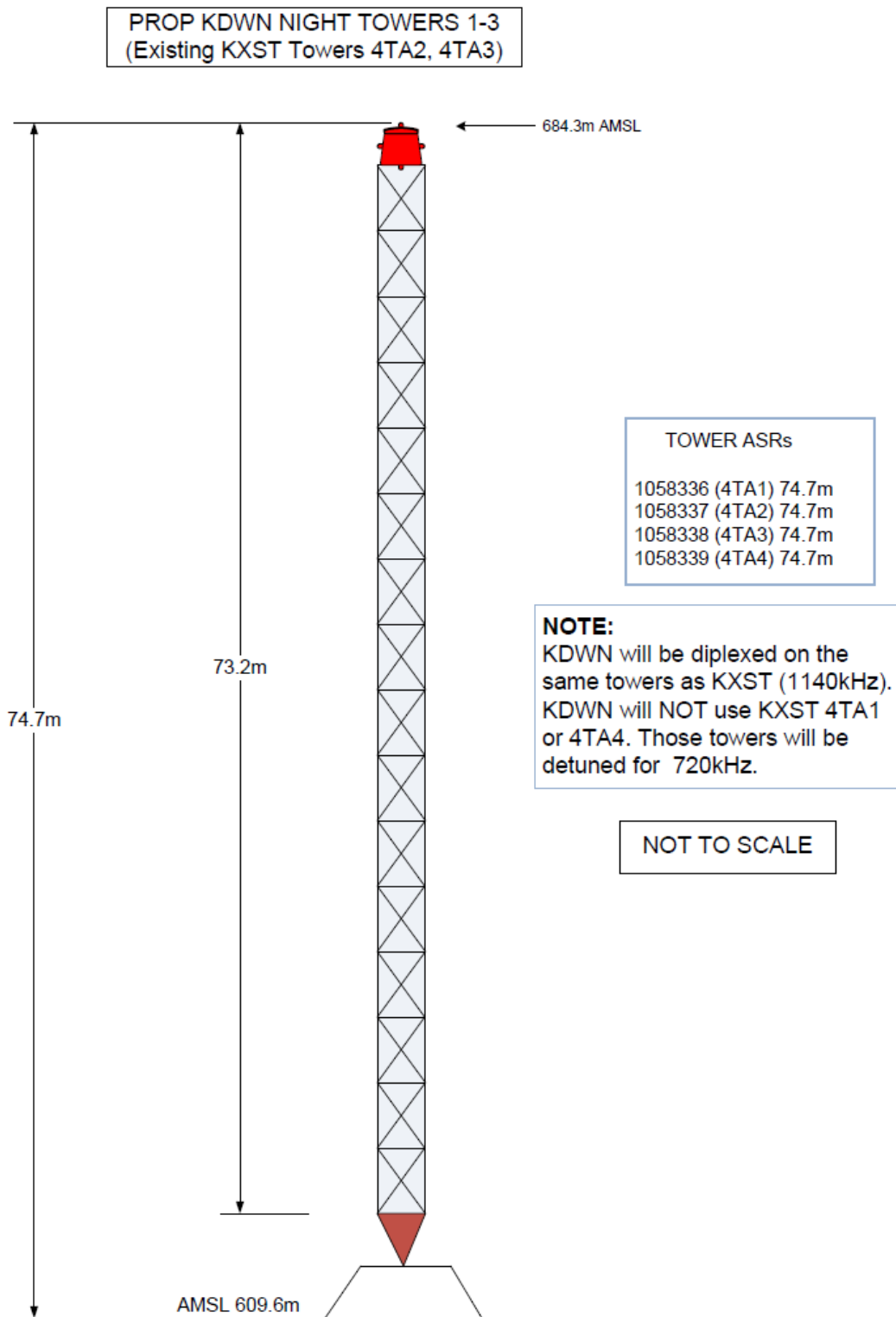


Figure 2 KDWN TOWER #2 (TOWER 1, DAYTIME OPERATION)

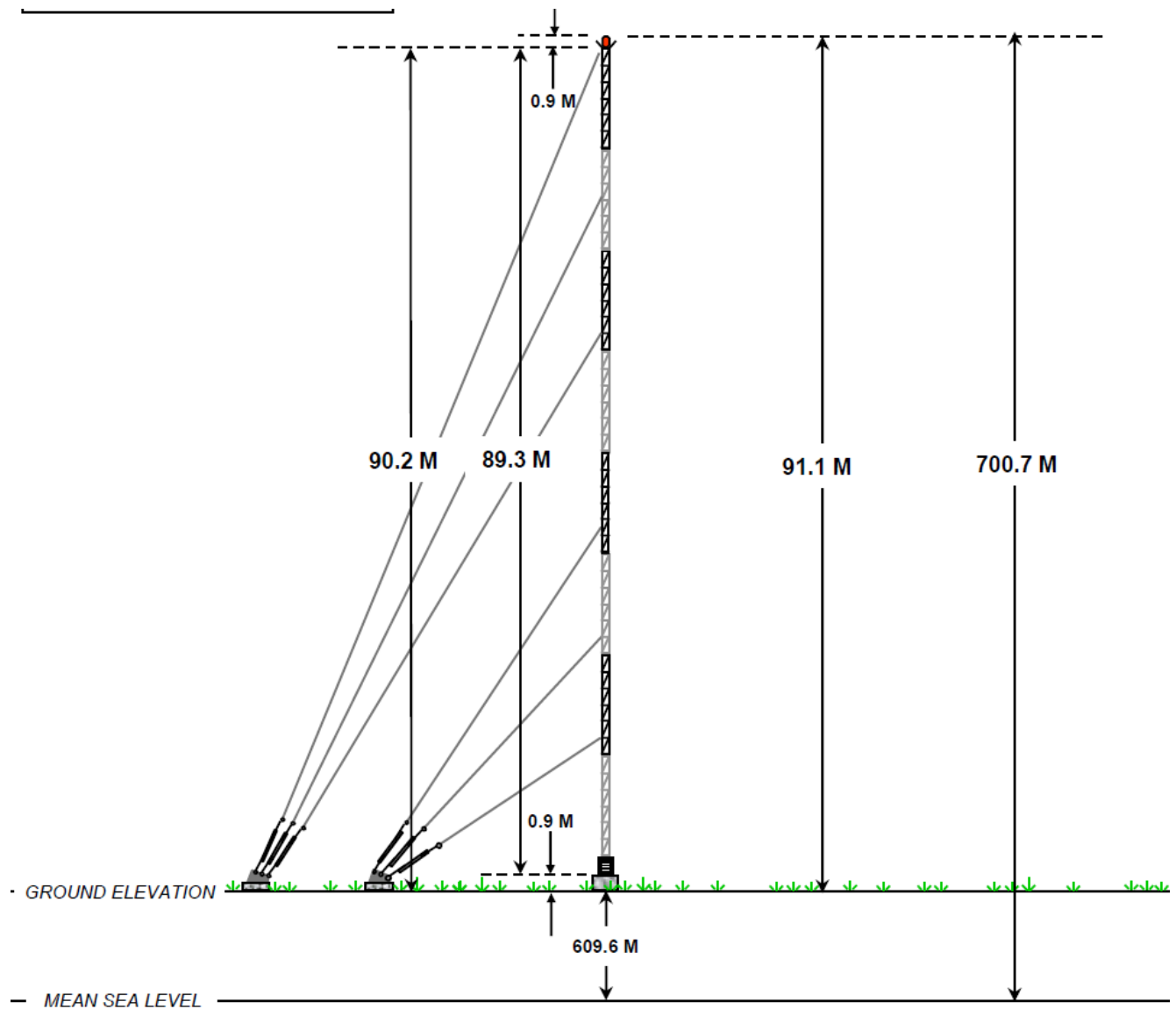
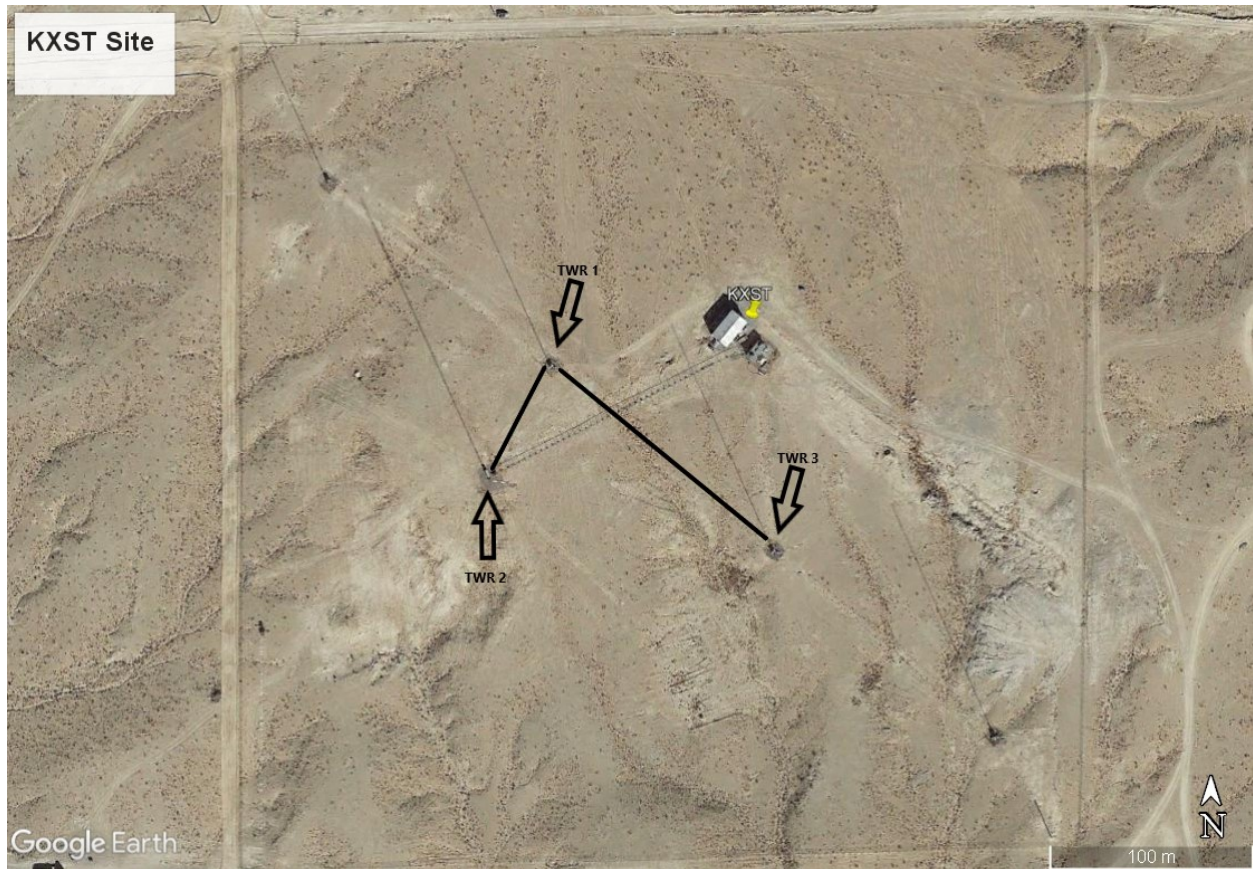


Figure 3 KDWN TOWER ORIENTATION



NOTE- KXST Towers 1 and 4 will be detuned at 720kHz

Figure 4 DAYTIME DISTANCE TO CONTOURS

LAS VEGAS ,NV

Call: KDWN-PROP

Coordinates: N 36 16 4 W 115 2 44

Frequency: 720 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :				
		Contour levels in mV/m.				
		.025	.500	.500 *	.250	5.000
0.0	1488.01	423.59	189.32	189.32	230.98	105.46
5.0	1488.01	428.83	194.56	194.56	236.21	105.92
10.0	1488.01	436.86	202.59	202.59	244.24	105.92
15.0	1488.01	498.26	214.91	214.91	258.75	105.92
20.0	1488.01	593.34	272.15	272.15	338.12	105.92
25.0	1488.01	593.34	272.15	272.15	338.12	105.92
30.0	1488.01	586.71	272.15	272.15	338.12	105.92
35.0	1488.01	579.76	272.15	272.15	338.12	105.92
40.0	1488.01	552.60	272.15	272.15	336.87	105.92
45.0	1488.01	561.33	276.27	276.27	335.88	105.92
50.0	1488.01	586.16	301.12	301.12	356.21	105.92
55.0	1488.01	592.87	302.43	302.43	358.64	105.92
60.0	1488.01	590.35	286.31	286.31	352.45	105.92
65.0	1488.01	574.44	272.73	272.73	349.02	105.92
70.0	1488.01	539.76	237.82	237.82	289.96	105.92
75.0	1488.01	537.20	234.88	234.88	287.02	105.92
80.0	1488.01	524.84	232.61	232.61	287.04	105.92
85.0	1488.01	520.53	230.80	230.80	285.62	105.92
90.0	1488.01	518.48	229.44	229.44	281.58	105.92
95.0	1488.01	516.86	228.98	228.98	281.12	105.92
100.0	1488.01	520.88	228.99	228.99	281.13	105.92
105.0	1488.01	523.74	229.75	229.75	281.89	105.92
110.0	1488.01	519.48	230.83	230.83	282.97	105.92
115.0	1488.01	505.25	232.31	232.31	284.45	105.92
120.0	1488.01	507.97	234.78	234.78	286.91	105.92
125.0	1488.01	511.46	238.27	238.27	290.41	105.92
130.0	1488.01	515.94	242.75	242.75	294.88	105.92
135.0	1488.01	534.50	250.07	250.07	302.20	105.92
140.0	1488.01	568.84	261.21	261.21	313.62	105.92
145.0	1488.01	593.34	272.15	272.15	338.12	105.92
150.0	1488.01	593.11	272.15	272.15	338.12	105.92
155.0	1488.01	583.77	272.15	272.15	338.12	105.92
160.0	1488.01	562.99	272.15	272.15	338.12	105.92
165.0	1488.01	559.91	272.15	272.15	338.12	105.92
170.0	1488.01	580.98	272.15	272.15	338.12	105.92
175.0	1488.01	525.21	224.66	224.66	283.66	105.92

180.0	1488.01	495.53	216.50	216.50	272.54	98.58
185.0	1488.01	488.41	208.22	208.22	261.08	90.29
190.0	1488.01	481.56	203.75	203.75	255.89	85.82
195.0	1488.01	468.87	201.23	201.23	253.37	83.30
200.0	1488.01	443.43	199.80	199.80	251.94	81.87
205.0	1488.01	443.47	198.95	198.95	251.09	81.03
210.0	1488.01	484.51	198.44	198.44	250.58	80.52
215.0	1488.01	532.14	198.07	198.07	250.21	80.15
220.0	1488.01	543.38	197.80	197.80	249.94	79.88
225.0	1488.01	545.61	197.59	197.59	249.73	79.67
230.0	1488.01	535.63	197.44	197.44	249.58	79.52
235.0	1488.01	510.08	197.32	197.32	249.46	79.40
240.0	1488.01	484.39	197.24	197.24	249.38	79.31
245.0	1488.01	457.51	197.17	197.17	249.31	79.25
250.0	1488.01	447.09	197.13	197.13	249.27	79.21
255.0	1488.01	422.89	180.19	180.19	221.84	79.19
260.0	1488.01	425.37	178.71	178.71	220.36	79.18
265.0	1488.01	424.61	178.35	178.35	220.00	79.19
270.0	1488.01	407.42	178.38	178.38	220.03	79.23
275.0	1488.01	407.03	179.48	179.48	221.14	79.28
280.0	1488.01	402.05	180.98	180.98	222.63	79.35
285.0	1488.01	405.60	183.14	183.14	224.80	79.45
290.0	1488.01	410.19	185.98	185.98	227.63	79.59
295.0	1488.01	412.01	182.12	182.12	223.77	79.77
300.0	1488.01	412.96	178.69	178.69	220.34	80.01
305.0	1488.01	410.36	176.09	176.09	217.74	80.45
310.0	1488.01	408.55	174.28	174.28	215.94	81.09
315.0	1488.01	407.47	173.21	173.21	214.86	82.06
320.0	1488.01	407.17	172.90	172.90	214.55	83.66
325.0	1488.01	408.05	173.78	173.78	215.43	86.59
330.0	1488.01	411.27	177.00	177.00	218.65	92.74
335.0	1488.01	413.01	178.74	178.74	220.39	94.87
340.0	1488.01	413.97	179.70	179.70	221.35	95.83
345.0	1488.01	415.09	180.82	180.82	222.47	96.95
350.0	1488.01	416.43	182.17	182.17	223.82	98.30
355.0	1488.01	419.53	185.26	185.26	226.91	101.39

* Contour was clipped at the international border.

Figure 5 NIGHTTIME POLAR PLOT

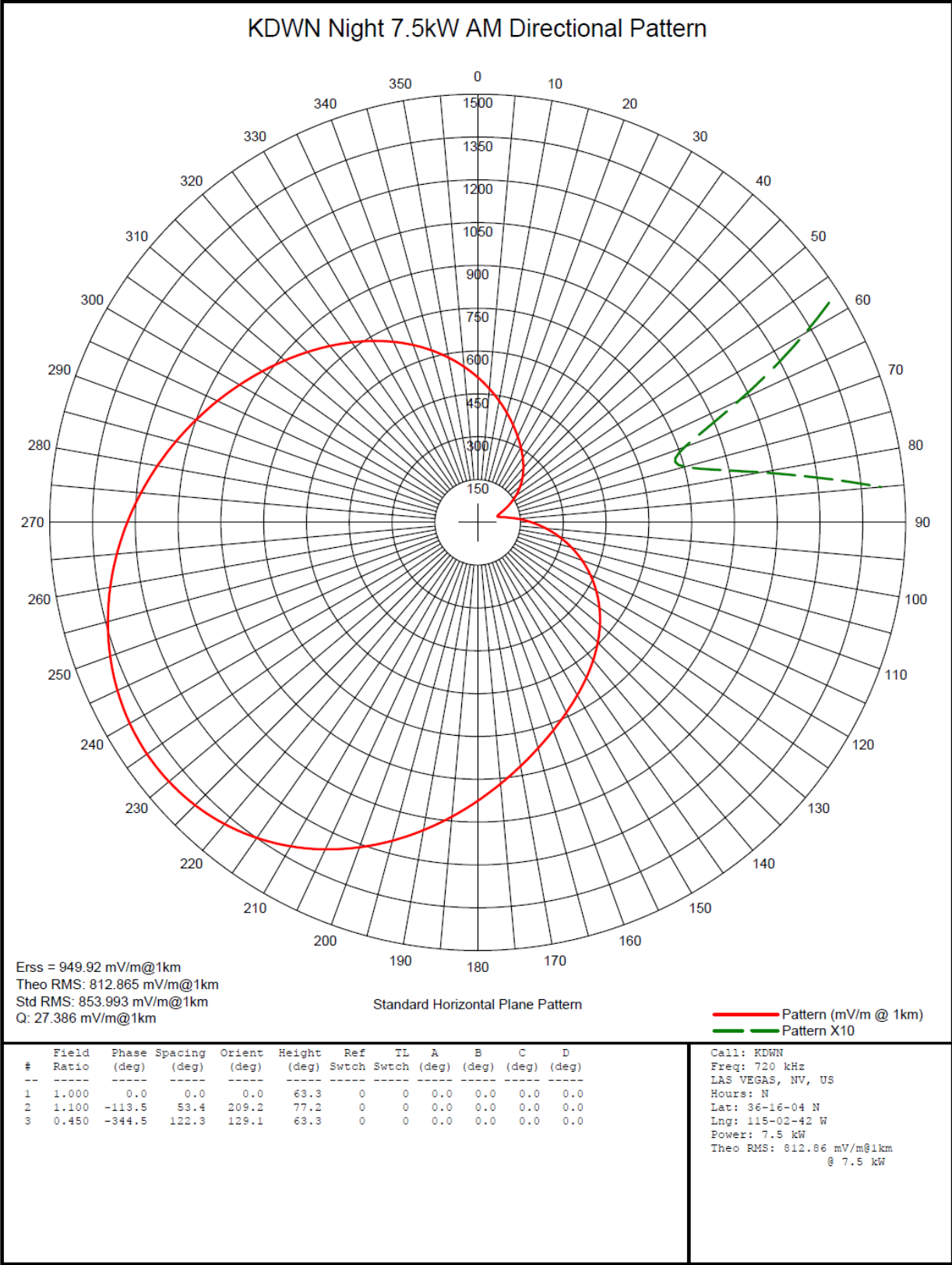


Figure 6 GROUND SYSTEM PICTORAL

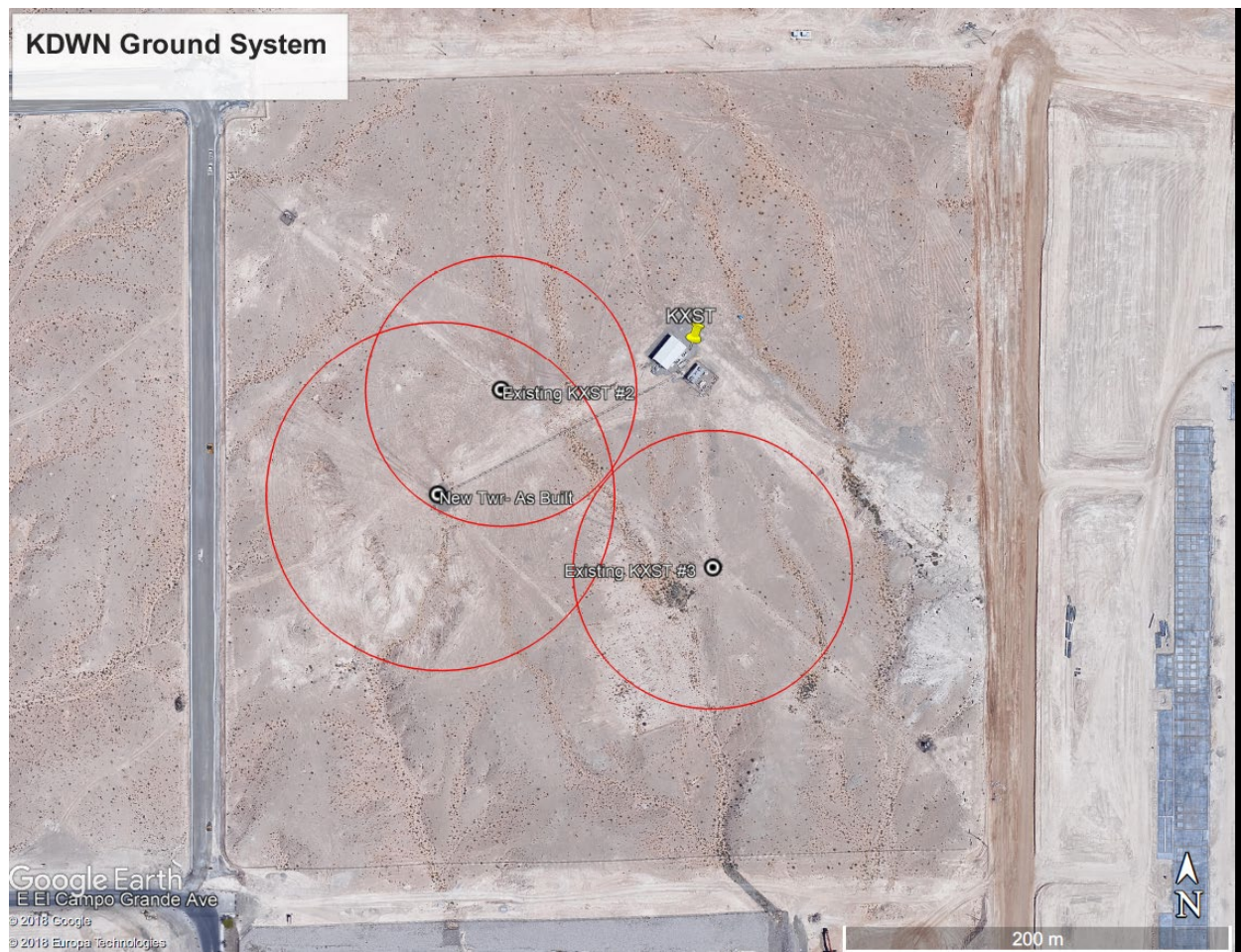


Figure 7 DAYTIME BLANKETING CONTOUR

Proposed KDWN Daytime 25kW ND Blanketing Contour

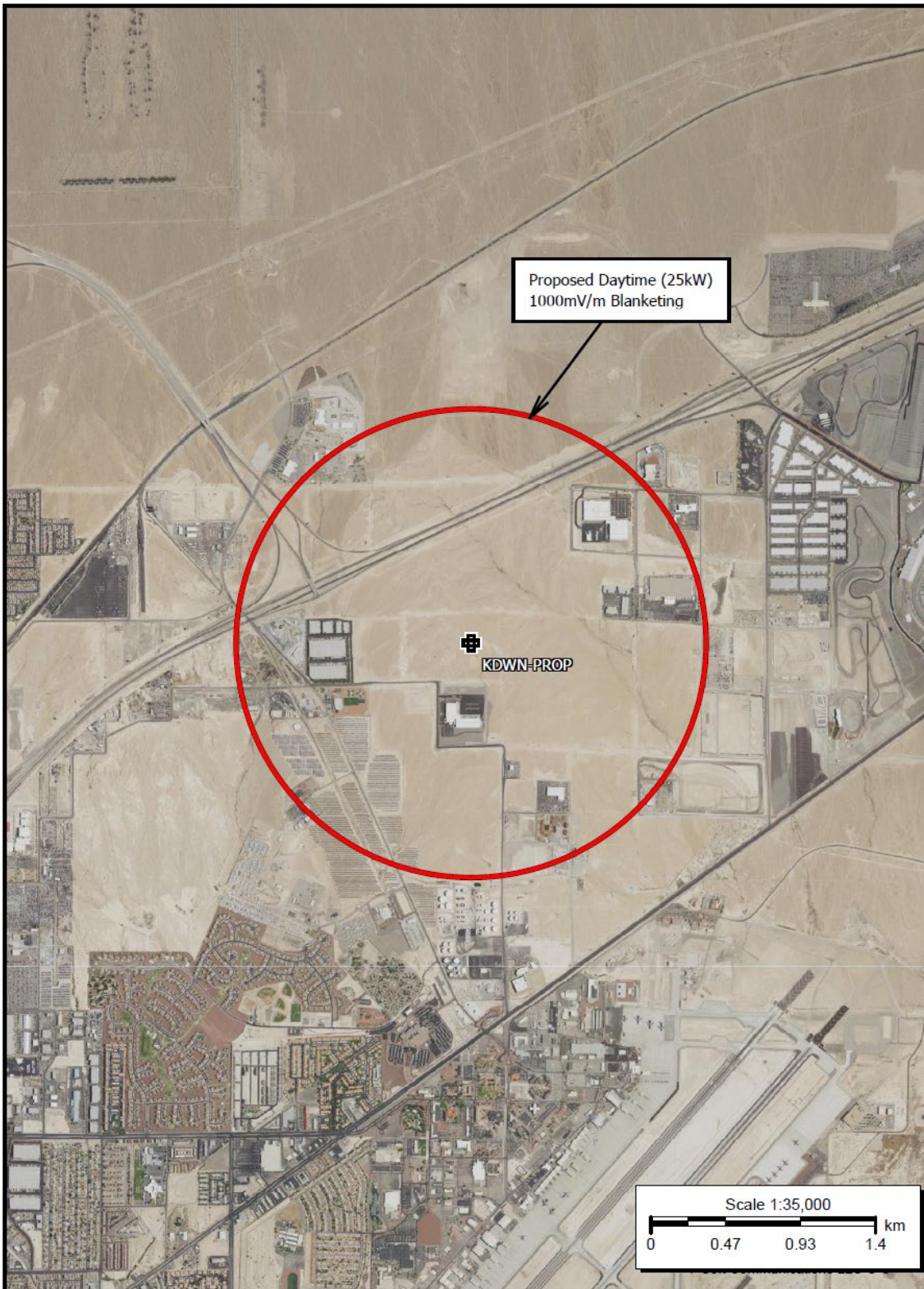


Figure 8 LICENSED VS PROPOSED KDWN SERVICE CONTOURS

KDWN proposed (Solid) Vs. Licensed (Dotted) Operation

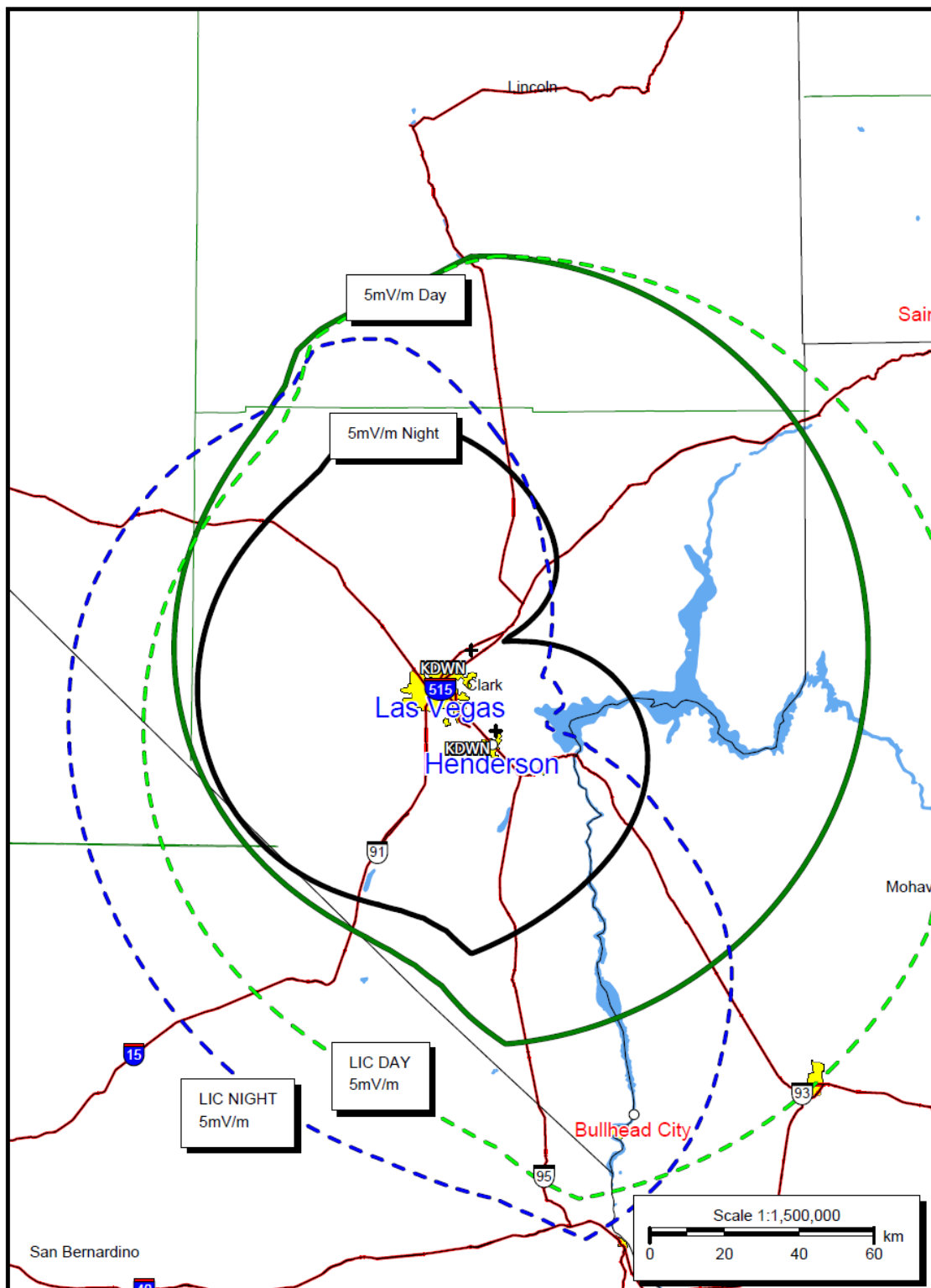


Figure 9- COMMUNITY COVERAGE, LAS VEGAS, NV

KDWN Proposed Community Coverage, Las Vegas, NV

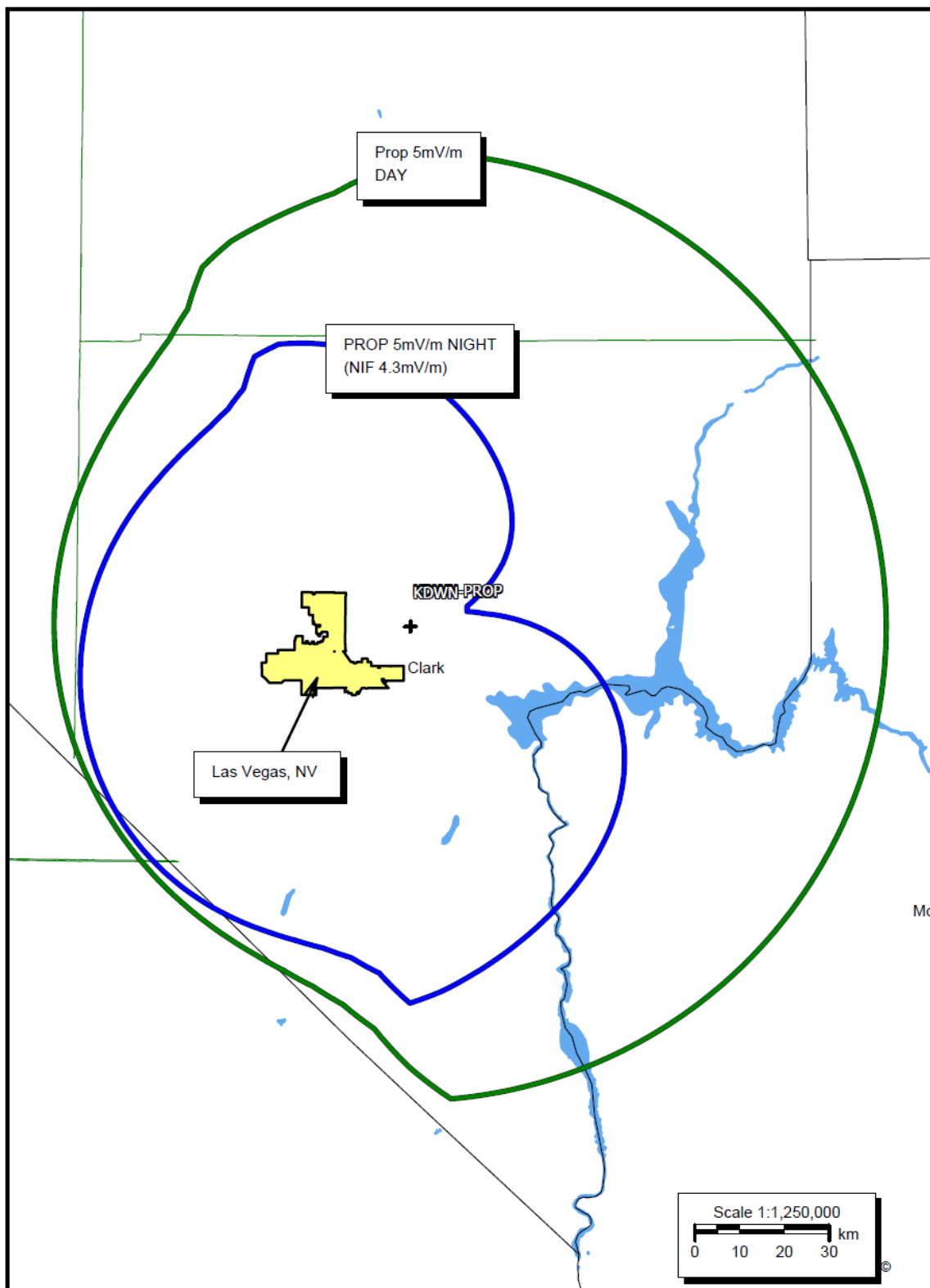


Figure 10- LICENSED AND PROPOSED DAY CONTOURS TO KBMB

KDWN Licensed Vs. Proposed 0.5mV/m and 0.25mV/m to KBMB 710kHz

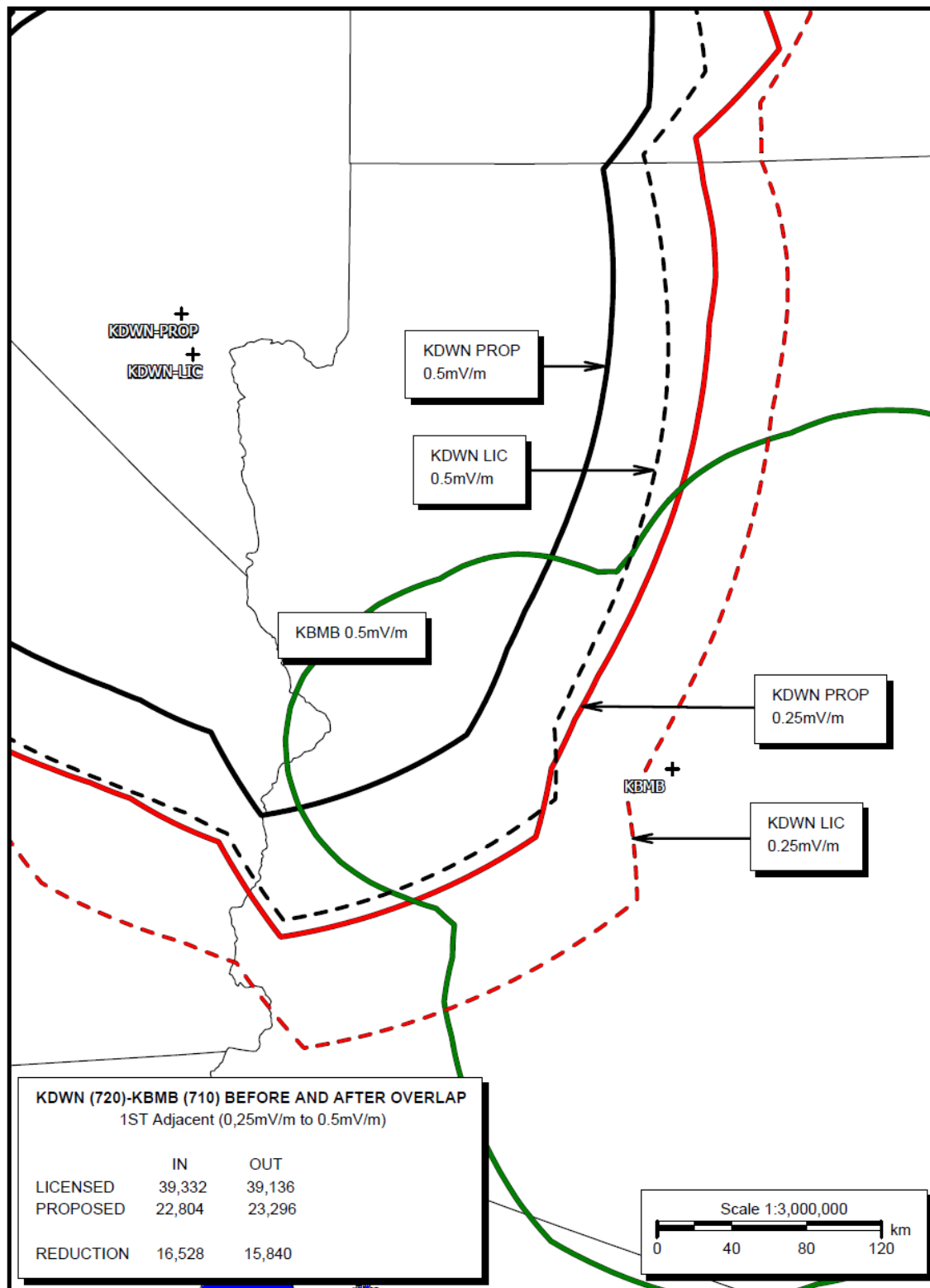


Figure 11- LICENSED AND PROPOSED DAY CONTOURS TO XENVA2

KDWN Licensed Vs. Proposed 0.5mV/m and 0.025mV/m to XENVA2, 720kHz

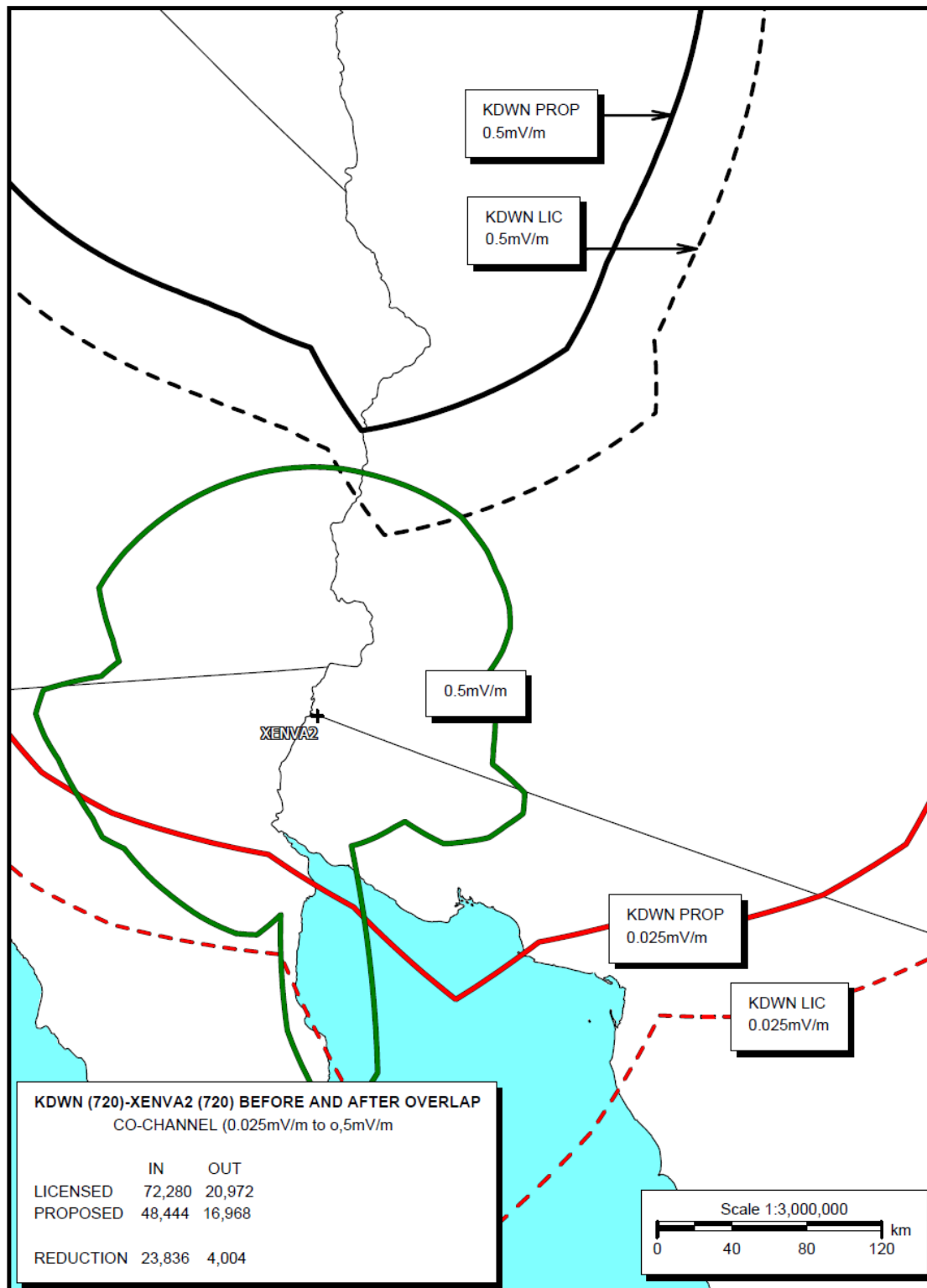


Figure 12- LICENSED AND PROPOSED DAY CONTOURS TO KSPN

KDWN Licensed Vs. Proposed 0.5mV/m and 0.25mV/m to KSPN 710kHz

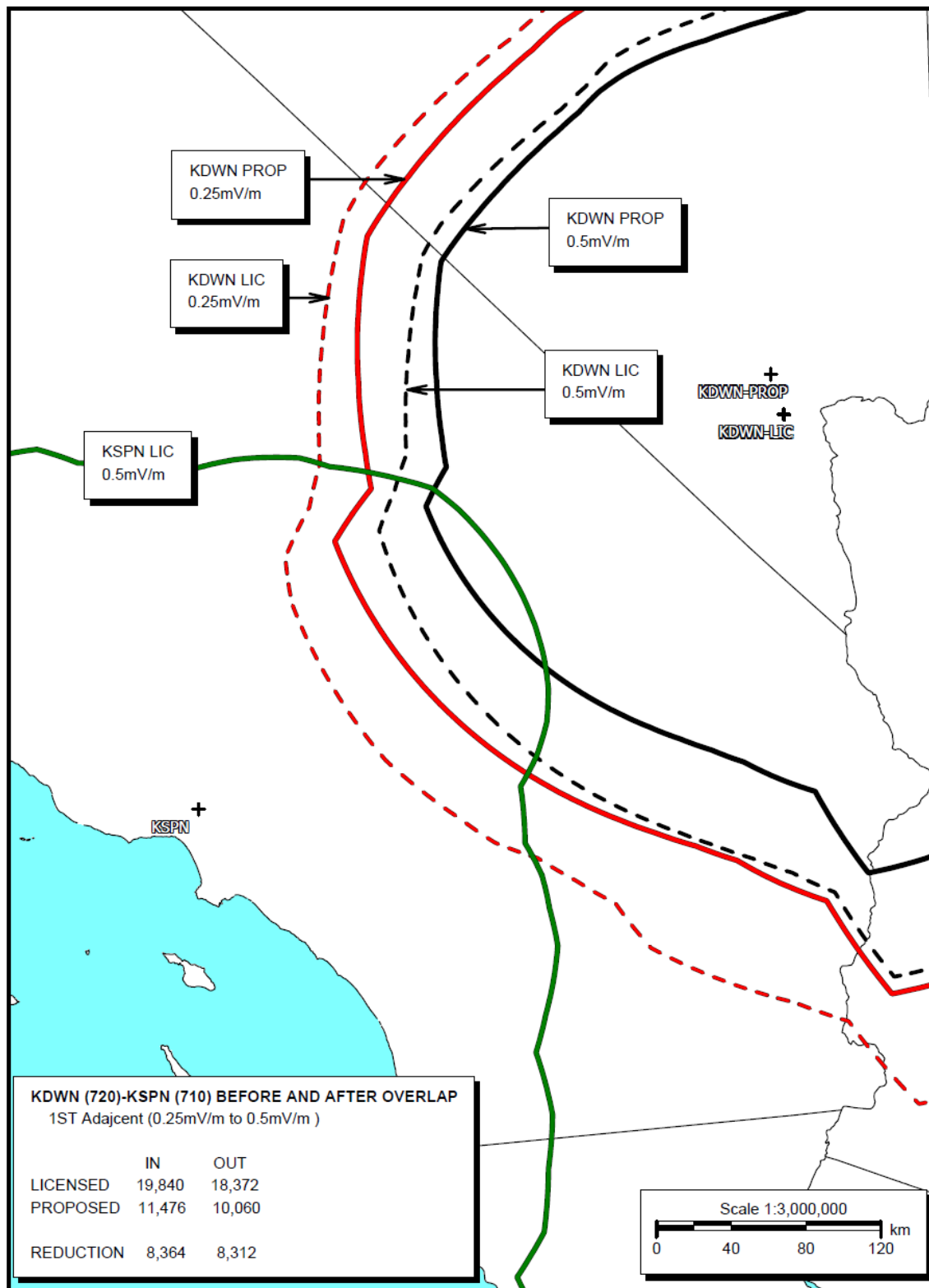


Figure 13- CRITICAL HOURS STUDY

Critical Hours Radiation Report

Call: KDWN-PROP
 Freq: 720 kHz
 NORTH LAS VEGAS, NV, US
 Hours: D
 Lat: 36-16-04.2 N
 Lng: 115-02-44.4 W
 Power: 25.0 kW
 Theo RMS: 297.60 mV/m @ 1km @ 1kW

#	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	77.2	0	0	0.0	0.0	0.0	0.0

Interpolation factors for 720 kHz:

K(500) = 0.560
 K(1000) = 0.440
 K(1600) = 0.000

 Call: WGN
 Freq: 720 kHz
 CHICAGO, IL, US
 Hours: U
 Lat: 42-00-42 N
 Lng: 088-02-07 W
 Power: 50.0 kW
 Theo RMS: 403.95 mV/m @ 1km @ 1kW

#	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	195.0	0	0	0.0	0.0	0.0	0.0

Permissible radiation calculated using FCC 73.190 curves.
 Calculations performed using distance to the class A station's 0.1 mV/m contour.

Class A Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km)/(mi)	Max Vert Angle (deg)	Max Rad Below Ang (mV/m@1km)	Permiss Radiation (mV/m@1km)	Margin (mV/m@1km)
356.89	56.00	2470.7 / 1535.2	0.0	1488.01	9252.9	7764.9
348.14	57.00	2401.7 / 1492.4	0.3	1488.01	8556.2	7068.2
325.21	58.00	2257.1 / 1402.5	0.9	1488.01	7367.2	5879.2
312.88	59.00	2188.5 / 1359.9	1.3	1488.01	6712.0	5224.0
303.56	60.00	2142.5 / 1331.3	1.5	1488.01	6246.9	4758.9
295.35	61.00	2104.6 / 1307.7	1.7	1488.01	5881.9	4393.9
288.01	62.00	2072.2 / 1287.6	1.9	1488.01	5606.7	4118.7
280.99	63.00	2035.7 / 1265.0	2.1	1488.01	5332.8	3844.7
275.43	64.00	2017.4 / 1253.5	2.2	1488.01	5171.6	3683.6

270.39	65.00	2009.8 /	1248.8	2.2	1488.01	5077.9	3589.8
265.47	66.00	2007.9 /	1247.6	2.3	1488.01	5019.4	3531.4
260.54	67.00	2009.2 /	1248.5	2.2	1488.01	4981.3	3493.3
255.57	68.00	2013.2 /	1251.0	2.2	1488.01	4960.1	3472.1
250.59	69.00	2018.4 /	1254.2	2.2	1488.01	4945.9	3457.9
245.58	70.00	2026.2 /	1259.0	2.2	1488.01	4948.4	3460.4
240.29	71.00	2040.4 /	1267.8	2.1	1488.01	5009.1	3521.1
234.51	72.00	2061.8 /	1281.2	2.0	1488.01	5113.8	3625.8
226.10	73.00	2110.9 /	1311.7	1.7	1488.01	5406.4	3918.3
218.73	74.00	2146.2 /	1333.6	1.5	1488.01	5628.0	4140.0
215.93	75.00	2144.3 /	1332.4	1.5	1488.01	5585.7	4097.7
212.12	76.00	2155.9 /	1339.6	1.5	1488.01	5636.0	4148.0
206.70	77.00	2186.2 /	1358.5	1.3	1488.01	5812.8	4324.8

Class A Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km)/ (mi)	K(500) Value (mV/m@1km)	K(1000) Value (mV/m@1km)	Permiss Radiation (mV/m@1km)	
356.89	56.00	2470.7 /	1535.2	12893.52	4619.34	9252.9
348.14	57.00	2401.7 /	1492.4	11916.88	4278.94	8556.2
325.21	58.00	2257.1 /	1402.5	10238.77	3712.49	7367.2
312.88	59.00	2188.5 /	1359.9	9315.79	3398.10	6712.0
303.56	60.00	2142.5 /	1331.3	8657.65	3178.76	6246.9
295.35	61.00	2104.6 /	1307.7	8144.55	3002.11	5881.9
288.01	62.00	2072.2 /	1287.6	7765.18	2859.58	5606.7
280.99	63.00	2035.7 /	1265.0	7390.27	2714.11	5332.8
275.43	64.00	2017.4 /	1253.5	7166.92	2632.03	5171.6
270.39	65.00	2009.8 /	1248.8	7034.93	2587.04	5077.9
265.47	66.00	2007.9 /	1247.6	6951.05	2560.98	5019.4
260.54	67.00	2009.2 /	1248.5	6895.15	2545.42	4981.3
255.57	68.00	2013.2 /	1251.0	6862.94	2538.28	4960.1
250.59	69.00	2018.4 /	1254.2	6840.80	2534.27	4945.9
245.58	70.00	2026.2 /	1259.0	6842.26	2537.98	4948.4
240.29	71.00	2040.4 /	1267.8	6930.17	2564.05	5009.1
234.51	72.00	2061.8 /	1281.2	7079.64	2611.90	5113.8
226.10	73.00	2110.9 /	1311.7	7486.68	2758.68	5406.4
218.73	74.00	2146.2 /	1333.6	7790.82	2875.37	5628.0
215.93	75.00	2144.3 /	1332.4	7735.53	2849.57	5585.7
212.12	76.00	2155.9 /	1339.6	7806.56	2873.55	5636.0
206.70	77.00	2186.2 /	1358.5	8050.27	2965.07	5812.8

Call: KOTZ
 Freq: 720 kHz
 KOTZEBUE, AK, US
 Hours: U
 Lat: 66-50-22 N
 Lng: 162-34-05 W
 Power: 10.0 kW
 Theo RMS: 302.56 mV/m @ 1km @ 1kW

#	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	86.4	0	0	0.0	0.0	0.0	0.0

Permissible radiation calculated using FCC 73.190 curves.
 Calculations performed using distance to the class A station's 0.1 mV/m contour.

Class A Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km)/ (mi)	Max Vert Angle (deg)	Max Rad Below Ang (mV/m@1km)	Permiss Radiation (mV/m@1km)	Margin (mV/m@1km)
247.32	326.00	5131.4 / 3188.5	0.0	1488.01	16093.4	14605.4 **
246.88	327.00	5103.6 / 3171.2	0.0	1488.01	16093.4	14605.4 **
246.25	328.00	5006.4 / 3110.9	0.0	1488.01	16093.4	14605.4 **
245.60	329.00	4906.7 / 3048.9	0.0	1488.01	16093.4	14605.4 **
207.39	330.00	4554.5 / 2830.1	0.0	1488.01	16093.4	14605.4 **
166.04	331.00	4396.5 / 2731.8	0.0	1488.01	16093.4	14605.4 **
140.58	332.00	4320.2 / 2684.5	0.0	1488.01	16093.4	14605.4 **
122.34	333.00	4278.3 / 2658.4	0.0	1488.01	16093.4	14605.4 **
105.83	334.00	4311.0 / 2678.7	0.0	1488.01	16093.4	14605.4 **
87.22	335.00	4332.9 / 2692.4	0.0	1488.01	16093.4	14605.4 **
62.18	336.00	4400.3 / 2734.2	0.0	1488.01	16093.4	14605.4 **

Class A Azimuth (deg)	Reference Azimuth (deg)	Distance to 0.1 mV (km)/ (mi)	K(500) Value (mV/m@1km)	K(1000) Value (mV/m@1km)	Permiss Radiation (mV/m@1km)
247.32	326.00	5131.4 / 3188.5	16093.44	16093.44	16093.4 **
246.88	327.00	5103.6 / 3171.2	16093.44	16093.44	16093.4 **
246.25	328.00	5006.4 / 3110.9	16093.44	16093.44	16093.4 **
245.60	329.00	4906.7 / 3048.9	16093.44	16093.44	16093.4 **
207.39	330.00	4554.5 / 2830.1	16093.44	16093.44	16093.4 **
166.04	331.00	4396.5 / 2731.8	16093.44	16093.44	16093.4 **
140.58	332.00	4320.2 / 2684.5	16093.44	16093.44	16093.4 **
122.34	333.00	4278.3 / 2658.4	16093.44	16093.44	16093.4 **
105.83	334.00	4311.0 / 2678.7	16093.44	16093.44	16093.4 **
87.22	335.00	4332.9 / 2692.4	16093.44	16093.44	16093.4 **
62.18	336.00	4400.3 / 2734.2	16093.44	16093.44	16093.4 **

** Indicates that the distance and/or azimuth was out of the range of the 73.190 permissible radiation graphs. The calculated permissible radiation is invalid.

Figure 14- NIGHTTIME RADIATION REPORT

AM Radiation Report

Call: KDWN
Freq: 720 kHz
LAS VEGAS, NV, US
Hours: N
Lat: 36-16-04 N
Lng: 115-02-42 W
Power: 7.5 kW
Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	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	508.60	5.0	470.11	10.0	432.61
15.0	396.80	20.0	363.18	25.0	332.01
30.0	303.09	35.0	275.84	40.0	249.30
45.0	222.41	50.0	194.22	55.0	164.17
60.0	132.52	65.0	101.32	70.0	77.30
75.0	75.16	80.0	100.80	85.0	141.98
90.0	189.67	95.0	239.98	100.0	290.90
105.0	341.15	110.0	389.82	115.0	436.24
120.0	480.03	125.0	521.04	130.0	559.40
135.0	595.52	140.0	630.13	145.0	664.21
150.0	698.92	155.0	735.53	160.0	775.21
165.0	818.87	170.0	866.99	175.0	919.53
180.0	975.88	185.0	1034.89	190.0	1095.04
195.0	1154.53	200.0	1211.46	205.0	1263.99
210.0	1310.43	215.0	1349.39	220.0	1379.81
225.0	1401.01	230.0	1412.71	235.0	1414.99
240.0	1408.27	245.0	1393.24	250.0	1370.79
255.0	1341.96	260.0	1307.85	265.0	1269.57
270.0	1228.21	275.0	1184.77	280.0	1140.15
285.0	1095.13	290.0	1050.39	295.0	1006.45
300.0	963.68	305.0	922.31	310.0	882.42
315.0	843.93	320.0	806.59	325.0	770.07
330.0	733.95	335.0	697.79	340.0	661.22
345.0	623.98	350.0	586.00	355.0	547.42

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	507.98	5.0	469.77	10.0	432.54
15.0	396.96	20.0	363.52	25.0	332.45
30.0	303.59	35.0	276.34	40.0	249.80
45.0	222.93	50.0	194.83	55.0	164.97
60.0	133.66	65.0	102.99	70.0	79.55
75.0	77.24	80.0	101.84	85.0	142.04
90.0	188.97	95.0	238.63	100.0	289.00
105.0	338.76	110.0	386.99	115.0	433.05
120.0	476.54	125.0	517.31	130.0	555.50
135.0	591.52	140.0	626.07	145.0	660.13
150.0	694.86	155.0	731.47	160.0	771.12
165.0	814.69	170.0	862.65	175.0	914.94
180.0	970.94	185.0	1029.55	190.0	1089.24
195.0	1148.25	200.0	1204.70	205.0	1256.78
210.0	1302.83	215.0	1341.47	220.0	1371.67
225.0	1392.74	230.0	1404.42	235.0	1406.78
240.0	1400.23	245.0	1385.44	250.0	1363.31
255.0	1334.85	260.0	1301.14	265.0	1263.30
270.0	1222.38	275.0	1179.38	280.0	1135.19
285.0	1090.59	290.0	1046.24	295.0	1002.66
300.0	960.23	305.0	919.16	310.0	879.54
315.0	841.28	320.0	804.15	325.0	767.83
330.0	731.89	335.0	695.93	340.0	659.57
345.0	622.56	350.0	584.83	355.0	546.51

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	506.05	5.0	468.68	10.0	432.24
15.0	397.33	20.0	364.42	25.0	333.70
30.0	305.02	35.0	277.83	40.0	251.32
45.0	224.57	50.0	196.76	55.0	167.51
60.0	137.24	65.0	108.11	70.0	86.28
75.0	83.51	80.0	105.21	85.0	142.53
90.0	187.14	95.0	234.88	100.0	283.57
105.0	331.86	110.0	378.81	115.0	423.77
120.0	466.35	125.0	506.42	130.0	544.09
135.0	579.78	140.0	614.17	145.0	648.18
150.0	682.90	155.0	719.49	160.0	759.02
165.0	802.30	170.0	849.75	175.0	901.28
180.0	956.27	185.0	1013.66	190.0	1071.99
195.0	1129.56	200.0	1184.59	205.0	1235.34
210.0	1280.23	215.0	1317.94	220.0	1347.47
225.0	1368.17	230.0	1379.78	235.0	1382.36
240.0	1376.30	245.0	1362.24	250.0	1341.04
255.0	1313.66	260.0	1281.15	265.0	1244.57
270.0	1204.95	275.0	1163.26	280.0	1120.34
285.0	1076.98	290.0	1033.79	295.0	991.29
300.0	949.83	305.0	909.66	310.0	870.83
315.0	833.27	320.0	796.79	325.0	761.06
330.0	725.69	335.0	690.31	340.0	654.57
345.0	618.24	350.0	581.25	355.0	543.74

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	502.60	5.0	466.59	10.0	431.43
15.0	397.63	20.0	365.61	25.0	335.52
30.0	307.21	35.0	280.24	40.0	253.92
45.0	227.47	50.0	200.28	55.0	172.12
60.0	143.57	65.0	116.83	70.0	97.28
75.0	93.95	80.0	111.52	85.0	144.27
90.0	185.02	95.0	229.52	100.0	275.41
105.0	321.26	110.0	366.08	115.0	409.23
120.0	450.32	125.0	489.21	130.0	526.03
135.0	561.15	140.0	595.21	145.0	629.07
150.0	663.71	155.0	700.19	160.0	739.44
165.0	782.17	170.0	828.70	175.0	878.92
180.0	932.23	185.0	987.61	190.0	1043.70
195.0	1098.93	200.0	1151.65	205.0	1200.24
210.0	1243.25	215.0	1279.44	220.0	1307.88
225.0	1327.97	230.0	1339.44	235.0	1342.36
240.0	1337.06	245.0	1324.16	250.0	1304.43
255.0	1278.78	260.0	1248.19	265.0	1213.65
270.0	1176.13	275.0	1136.54	280.0	1095.69
285.0	1054.32	290.0	1013.01	295.0	972.26
300.0	932.42	305.0	893.70	310.0	856.18
315.0	819.80	320.0	784.37	325.0	749.63
330.0	715.23	335.0	680.82	340.0	646.11
345.0	610.89	350.0	575.13	355.0	538.93

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	497.27	5.0	463.08	10.0	429.65
15.0	397.39	20.0	366.63	25.0	337.49
30.0	309.87	35.0	283.41	40.0	257.56
45.0	231.77	50.0	205.61	55.0	179.06
60.0	152.84	65.0	129.04	70.0	112.04
75.0	108.21	80.0	121.27	85.0	148.28
90.0	183.80	95.0	223.79	100.0	265.78
105.0	308.23	110.0	350.12	115.0	390.77
120.0	429.79	125.0	467.04	130.0	502.63
135.0	536.90	140.0	570.41	145.0	603.93
150.0	638.32	155.0	674.47	160.0	713.16
165.0	754.97	170.0	800.12	175.0	848.45
180.0	899.39	185.0	951.99	190.0	1005.04
195.0	1057.11	200.0	1106.71	205.0	1152.41
210.0	1192.89	215.0	1227.03	220.0	1253.99
225.0	1273.22	230.0	1284.47	235.0	1287.78
240.0	1283.47	245.0	1272.07	250.0	1254.26
255.0	1230.89	260.0	1202.83	265.0	1170.98
270.0	1136.25	275.0	1099.47	280.0	1061.38
285.0	1022.68	290.0	983.91	295.0	945.53
300.0	907.87	305.0	871.13	310.0	835.40
315.0	800.64	320.0	766.70	325.0	733.35
330.0	700.30	335.0	667.26	340.0	633.98
345.0	600.31	350.0	566.20	355.0	531.77

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	489.61	5.0	457.65	10.0	426.33
15.0	395.99	20.0	366.87	25.0	339.08
30.0	312.53	35.0	286.98	40.0	262.04
45.0	237.36	50.0	212.72	55.0	188.27
60.0	164.81	65.0	144.18	70.0	129.66
75.0	125.49	80.0	134.41	85.0	155.31
90.0	184.66	95.0	219.09	100.0	256.19
105.0	294.37	110.0	332.56	115.0	370.05
120.0	406.45	125.0	441.59	130.0	475.55
135.0	508.62	140.0	541.28	145.0	574.16
150.0	607.97	155.0	643.42	160.0	681.15
165.0	721.55	170.0	764.77	175.0	810.60
180.0	858.50	185.0	907.62	190.0	956.90
195.0	1005.09	200.0	1050.90	205.0	1093.07
210.0	1130.45	215.0	1162.08	220.0	1187.21
225.0	1205.35	230.0	1216.27	235.0	1220.00
240.0	1216.80	245.0	1207.13	250.0	1191.58
255.0	1170.89	260.0	1145.83	265.0	1117.21
270.0	1085.81	275.0	1052.40	280.0	1017.66
285.0	982.19	290.0	946.51	295.0	911.03
300.0	876.05	305.0	841.78	310.0	808.30
315.0	775.59	320.0	743.54	325.0	711.97
330.0	680.66	335.0	649.38	340.0	617.93
345.0	586.19	350.0	554.14	355.0	521.88

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	479.10	5.0	449.68	10.0	420.81
15.0	392.73	20.0	365.63	25.0	339.59
30.0	314.56	35.0	290.39	40.0	266.86
45.0	243.79	50.0	221.15	55.0	199.20
60.0	178.72	65.0	161.19	70.0	148.92
75.0	144.63	80.0	150.18	85.0	165.41
90.0	188.37	95.0	216.63	100.0	248.12
105.0	281.31	110.0	315.13	115.0	348.88
120.0	382.13	125.0	414.69	130.0	446.58
135.0	478.03	140.0	509.41	145.0	541.20
150.0	573.96	155.0	608.23	160.0	644.43
165.0	682.85	170.0	723.52	175.0	766.21
180.0	810.44	185.0	855.46	190.0	900.35
195.0	944.07	200.0	985.53	205.0	1023.67
210.0	1057.53	215.0	1086.27	220.0	1109.27
225.0	1126.10	230.0	1136.56	235.0	1140.66
240.0	1138.61	245.0	1130.78	250.0	1117.69
255.0	1099.93	260.0	1078.18	265.0	1053.14
270.0	1025.47	275.0	995.85	280.0	964.88
285.0	933.08	290.0	900.92	295.0	868.77
300.0	836.91	305.0	805.51	310.0	774.68
315.0	744.42	320.0	714.65	325.0	685.24
330.0	656.05	335.0	626.89	340.0	597.63
345.0	568.19	350.0	538.55	355.0	508.80

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	465.16	5.0	438.55	10.0	412.40
15.0	386.89	20.0	362.14	25.0	338.23
30.0	315.16	35.0	292.86	40.0	271.24
45.0	250.26	50.0	230.00	55.0	210.79
60.0	193.30	65.0	178.65	70.0	168.39
75.0	164.18	80.0	167.26	85.0	177.79
90.0	194.87	95.0	216.97	100.0	242.55
105.0	270.34	110.0	299.33	115.0	328.86
120.0	358.49	125.0	387.99	130.0	417.35
135.0	446.68	140.0	476.25	145.0	506.39
150.0	537.50	155.0	569.93	160.0	603.96
165.0	639.74	170.0	677.23	175.0	716.18
180.0	756.17	185.0	796.56	190.0	836.58
195.0	875.40	200.0	912.12	205.0	945.88
210.0	975.88	215.0	1001.46	220.0	1022.10
225.0	1037.43	230.0	1047.28	235.0	1051.65
240.0	1050.69	245.0	1044.70	250.0	1034.10
255.0	1019.37	260.0	1001.08	265.0	979.78
270.0	956.07	275.0	930.49	280.0	903.55
285.0	875.72	290.0	847.39	295.0	818.88
300.0	790.45	305.0	762.27	310.0	734.43
315.0	706.95	320.0	679.82	325.0	652.93
330.0	626.20	335.0	599.51	340.0	572.77
345.0	545.93	350.0	518.99	355.0	492.03

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	447.23	5.0	423.63	10.0	400.41
15.0	377.70	20.0	355.60	25.0	334.18
30.0	313.47	35.0	293.46	40.0	274.17
45.0	255.64	50.0	238.02	55.0	221.64
60.0	207.04	65.0	195.00	70.0	186.50
75.0	182.58	80.0	183.99	85.0	190.97
90.0	203.15	95.0	219.71	100.0	239.64
105.0	262.01	110.0	286.00	115.0	311.02
120.0	336.67	125.0	362.70	130.0	389.02
135.0	415.70	140.0	442.86	145.0	470.70
150.0	499.47	155.0	529.37	160.0	560.54
165.0	593.02	170.0	626.71	175.0	661.39
180.0	696.67	185.0	732.03	190.0	766.87
195.0	800.51	200.0	832.26	205.0	861.43
210.0	887.40	215.0	909.65	220.0	927.75
225.0	941.42	230.0	950.50	235.0	954.99
240.0	954.99	245.0	950.73	250.0	942.53
255.0	930.77	260.0	915.89	265.0	898.36
270.0	878.63	275.0	857.16	280.0	834.36
285.0	810.63	290.0	786.29	295.0	761.63
300.0	736.85	305.0	712.12	310.0	687.54
315.0	663.14	320.0	638.93	325.0	614.87
330.0	590.91	335.0	566.98	340.0	543.04
345.0	519.06	350.0	495.05	355.0	471.08

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	424.82	5.0	404.35	10.0	384.20
15.0	364.48	20.0	345.25	25.0	326.58
30.0	308.53	35.0	291.15	40.0	274.48
45.0	258.63	50.0	243.78	55.0	230.19
60.0	218.28	65.0	208.57	70.0	201.68
75.0	198.20	80.0	198.60	85.0	203.08
90.0	211.51	95.0	223.50	100.0	238.48
105.0	255.83	110.0	274.98	115.0	295.48
120.0	316.96	125.0	339.20	130.0	362.08
135.0	385.57	140.0	409.73	145.0	434.63
150.0	460.37	155.0	487.05	160.0	514.70
165.0	543.28	170.0	572.67	175.0	602.66
180.0	632.91	185.0	663.01	190.0	692.51
195.0	720.87	200.0	747.58	205.0	772.12
210.0	794.01	215.0	812.86	220.0	828.33
225.0	840.21	230.0	848.38	235.0	852.80
240.0	853.56	245.0	850.82	250.0	844.81
255.0	835.82	260.0	824.19	265.0	810.25
270.0	794.38	275.0	776.92	280.0	758.21
285.0	738.57	290.0	718.25	295.0	697.49
300.0	676.47	305.0	655.33	310.0	634.18
315.0	613.07	320.0	592.01	325.0	571.02
330.0	550.06	335.0	529.13	340.0	508.19
345.0	487.26	350.0	466.36	355.0	445.52

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	397.52	5.0	380.25	10.0	363.25
15.0	346.60	20.0	330.37	25.0	314.63
30.0	299.43	35.0	284.85	40.0	270.97
45.0	257.89	50.0	245.79	55.0	234.87
60.0	225.43	65.0	217.80	70.0	212.34
75.0	209.42	80.0	209.30	85.0	212.12
90.0	217.87	95.0	226.35	100.0	237.28
105.0	250.32	110.0	265.09	115.0	281.29
120.0	298.65	125.0	316.96	130.0	336.12
135.0	356.03	140.0	376.68	145.0	398.08
150.0	420.22	155.0	443.11	160.0	466.72
165.0	490.96	170.0	515.69	175.0	540.73
180.0	565.81	185.0	590.61	190.0	614.78
195.0	637.94	200.0	659.71	205.0	679.71
210.0	697.60	215.0	713.08	220.0	725.92
225.0	735.94	230.0	743.05	235.0	747.23
240.0	748.51	245.0	747.01	250.0	742.89
255.0	736.36	260.0	727.65	265.0	717.01
270.0	704.72	275.0	691.04	280.0	676.22
285.0	660.50	290.0	644.08	295.0	627.17
300.0	609.89	305.0	592.39	310.0	574.74
315.0	557.02	320.0	539.25	325.0	521.47
330.0	503.68	335.0	485.90	340.0	468.11
345.0	450.35	350.0	432.63	355.0	415.00

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	365.05	5.0	350.96	10.0	337.11
15.0	323.56	20.0	310.37	25.0	297.60
30.0	285.31	35.0	273.58	40.0	262.48
45.0	252.13	50.0	242.65	55.0	234.20
60.0	226.98	65.0	221.19	70.0	217.04
75.0	214.73	80.0	214.42	85.0	216.20
90.0	220.09	95.0	226.00	100.0	233.81
105.0	243.32	110.0	254.35	115.0	266.69
120.0	280.17	125.0	294.63	130.0	309.97
135.0	326.10	140.0	342.95	145.0	360.48
150.0	378.64	155.0	397.38	160.0	416.63
165.0	436.29	170.0	456.23	175.0	476.27
180.0	496.23	185.0	515.86	190.0	534.91
195.0	553.10	200.0	570.18	205.0	585.88
210.0	599.96	215.0	612.22	220.0	622.49
225.0	630.64	230.0	636.60	235.0	640.35
240.0	641.90	245.0	641.33	250.0	638.75
255.0	634.28	260.0	628.09	265.0	620.35
270.0	611.25	275.0	600.98	280.0	589.71
285.0	577.63	290.0	564.89	295.0	551.63
300.0	537.96	305.0	524.00	310.0	509.82
315.0	495.49	320.0	481.05	325.0	466.54
330.0	451.98	335.0	437.40	340.0	422.81
345.0	408.25	350.0	393.75	355.0	379.33

Call: KDWN
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	0	0	0.0	0.0	0.0	0.0

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	327.29	5.0	316.30	10.0	305.51
15.0	294.97	20.0	284.74	25.0	274.86
30.0	265.40	35.0	256.42	40.0	247.99
45.0	240.20	50.0	233.13	55.0	226.90
60.0	221.62	65.0	217.43	70.0	214.43
75.0	212.74	80.0	212.45	85.0	213.60
90.0	216.23	95.0	220.29	100.0	225.74
105.0	232.49	110.0	240.43	115.0	249.45
120.0	259.45	125.0	270.32	130.0	281.98
135.0	294.34	140.0	307.33	145.0	320.90
150.0	334.96	155.0	349.46	160.0	364.30
165.0	379.40	170.0	394.64	175.0	409.87
180.0	424.97	185.0	439.75	190.0	454.04
195.0	467.67	200.0	480.45	205.0	492.20
210.0	502.78	215.0	512.05	220.0	519.88
225.0	526.21	230.0	530.97	235.0	534.14
240.0	535.73	245.0	535.78	250.0	534.34
255.0	531.51	260.0	527.38	265.0	522.07
270.0	515.69	275.0	508.37	280.0	500.24
285.0	491.41	290.0	481.99	295.0	472.08
300.0	461.78	305.0	451.16	310.0	440.30
315.0	429.24	320.0	418.04	325.0	406.74
330.0	395.36	335.0	383.94	340.0	372.51
345.0	361.10	350.0	349.73	355.0	338.45

Figure 15- NIGHTTIME ALLOCATION PROTECTION REPORT

Night Allocation Protection Report

Call: KDWN (PROPOSED)
 Freq: 720 kHz
 LAS VEGAS, NV, US
 Hours: N
 Lat: 36-16-04 N
 Lng: 115-02-42 W
 Power: 7.5 kW
 Theo RMS: 812.86 mV/m @ 1km @ 7.5 kW

PROTECTIONS TO 2500 MARGIN

#	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	63.3	0	0	0.0	0.0	0.0	0.0
2	1.100	-113.5	53.4	209.2	77.2	0	0	0.0	0.0	0.0	0.0
3	0.450	-344.5	122.3	129.1	63.3	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)
WGN (0)	US	IL	CHICAGO	5.31	0.500	470.64s	190.50	280.14
WGN (1)	US	IL	CHICAGO	5.26	0.502	477.43s	189.60	287.84
WGN (2)	US	IL	CHICAGO	5.23	0.511	488.40s	188.18	300.22
WGN (3)	US	IL	CHICAGO	5.19	0.517	498.03s	186.80	311.23
WGN (4)	US	IL	CHICAGO	5.16	0.525	508.48s	185.45	323.03
WGN (5)	US	IL	CHICAGO	5.13	0.531	517.52s	184.13	333.38
WGN (6)	US	IL	CHICAGO	5.10	0.538	527.43s	182.84	344.59
WGN (7)	US	IL	CHICAGO	5.06	0.544	537.09s	181.58	355.50
WGN (8)	US	IL	CHICAGO	5.03	0.549	545.19s	180.35	364.85
WGN (9)	US	IL	CHICAGO	5.00	0.555	554.27s	179.14	375.13
WGN (10)	US	IL	CHICAGO	4.97	0.560	563.06s	177.95	385.10
WGN (11)	US	IL	CHICAGO	4.94	0.565	571.56s	176.78	394.77
WGN (12)	US	IL	CHICAGO	4.92	0.570	579.76s	175.64	404.12
WGN (13)	US	IL	CHICAGO	4.89	0.574	587.67s	174.51	413.16
WGN (14)	US	IL	CHICAGO	4.86	0.578	595.27s	173.40	421.87
WGN (15)	US	IL	CHICAGO	4.83	0.582	602.57s	172.31	430.26
WGN (16)	US	IL	CHICAGO	4.80	0.587	611.06s	171.23	439.83
WGN (17)	US	IL	CHICAGO	4.78	0.590	617.76s	170.17	447.59
WGN (18)	US	IL	CHICAGO	4.75	0.593	624.14s	169.11	455.03
WGN (19)	US	IL	CHICAGO	4.72	0.597	631.77s	168.08	463.70
WGN (20)	US	IL	CHICAGO	4.70	0.599	637.53s	167.05	470.48
WGN (21)	US	IL	CHICAGO	4.67	0.602	644.57s	166.04	478.54
WGN (22)	US	IL	CHICAGO	4.64	0.603	649.69s	165.03	484.66
WGN (23)	US	IL	CHICAGO	4.62	0.606	656.13s	164.03	492.09
WGN (24)	US	IL	CHICAGO	4.60	0.609	662.15s	162.93	499.22
WGN (25)	US	IL	CHICAGO	4.62	0.626	677.56s	160.85	516.71
WGN (26)	US	IL	CHICAGO	4.63	0.640	690.42s	158.97	531.45
WGN (27)	US	IL	CHICAGO	4.63	0.647	699.01s	157.67	541.34
WGN (28)	US	IL	CHICAGO	4.62	0.651	705.34s	156.39	548.95
WGN (29)	US	IL	CHICAGO	4.55	0.640	703.40s	156.42	546.98
WGN (30)	US	IL	CHICAGO	4.47	0.624	697.93s	156.53	541.40
WGN (31)	US	IL	CHICAGO	4.48	0.636	708.88s	154.87	554.01
WGN (32)	US	IL	CHICAGO	4.51	0.652	722.30s	152.83	569.48
WGN (33)	US	IL	CHICAGO	4.53	0.664	732.50s	151.12	581.38
WGN (34)	US	IL	CHICAGO	4.52	0.669	739.16s	149.88	589.28
WGN (35)	US	IL	CHICAGO	4.47	0.661	738.92s	149.52	589.40
WGN (36)	US	IL	CHICAGO	4.41	0.649	735.72s	149.30	586.41

WGN (37)	US IL CHICAGO	4.38	0.647	738.24s	148.48	589.77
WGN (38)	US IL CHICAGO	4.37	0.649	742.29s	147.32	594.97
WGN (39)	US IL CHICAGO	4.46	0.682	765.01s	144.44	620.57
WGN (40)	US IL CHICAGO	4.44	0.680	766.37s	143.54	622.83
WGN (41)	US IL CHICAGO	4.41	0.679	769.48s	142.64	626.84
WGN (42)	US IL CHICAGO	4.39	0.678	772.21s	141.74	630.48
WGN (43)	US IL CHICAGO	4.37	0.675	772.48s	140.83	631.65
WGN (44)	US IL CHICAGO	4.34	0.673	774.47s	139.93	634.55
WGN (45)	US IL CHICAGO	4.32	0.671	776.08s	139.02	637.06
WGN (46)	US IL CHICAGO	4.30	0.668	777.30s	138.11	639.19
WGN (47)	US IL CHICAGO	4.27	0.665	778.13s	137.19	640.94
WGN (48)	US IL CHICAGO	4.25	0.662	778.56s	136.27	642.29
WGN (49)	US IL CHICAGO	4.25	0.667	784.40s	135.00	649.40
WGN (50)	US IL CHICAGO	4.26	0.674	790.74s	133.52	657.22
WGN (51)	US IL CHICAGO	4.28	0.682	796.63s	132.07	664.56
WGN (52)	US IL CHICAGO	4.30	0.691	804.20s	130.64	673.56
WGN (53)	US IL CHICAGO	4.31	0.698	809.12s	129.24	679.88
WGN (54)	US IL CHICAGO	4.33	0.706	815.80s	127.86	687.94
WGN (55)	US IL CHICAGO	4.34	0.713	822.06s	126.51	695.56
WGN (56)	US IL CHICAGO	4.35	0.719	825.57s	125.17	700.40
WGN (57)	US IL CHICAGO	4.37	0.726	830.95s	123.86	707.09
WGN (58)	US IL CHICAGO	4.38	0.732	835.90s	122.56	713.35
WGN (59)	US IL CHICAGO	4.39	0.738	840.44s	121.28	719.16
WGN (60)	US IL CHICAGO	4.40	0.744	844.56s	120.02	724.54
WGN (61)	US IL CHICAGO	4.42	0.749	848.26s	118.77	729.48
WGN (62)	US IL CHICAGO	4.43	0.754	851.54s	117.55	734.00
WGN (63)	US IL CHICAGO	4.44	0.759	854.41s	116.33	738.08
WGN (64)	US IL CHICAGO	4.45	0.763	856.87s	115.13	741.74
WGN (65)	US IL CHICAGO	4.46	0.767	858.93s	113.95	744.98
WGN (66)	US IL CHICAGO	4.47	0.772	863.15s	112.77	750.37
WGN (67)	US IL CHICAGO	4.49	0.775	864.42s	111.61	752.81
WGN (68)	US IL CHICAGO	4.50	0.778	865.29s	110.46	754.82
WGN (69)	US IL CHICAGO	4.53	0.790	871.84s	109.19	762.65
WGN (70)	US IL CHICAGO	4.57	0.800	875.71s	107.94	767.77
WGN (71)	US IL CHICAGO	4.60	0.811	881.68s	106.72	774.96
WGN (72)	US IL CHICAGO	4.63	0.819	884.28s	105.54	778.74
WGN (73)	US IL CHICAGO	4.67	0.830	889.10s	104.39	784.71
WGN (74)	US IL CHICAGO	4.70	0.837	890.46s	103.27	787.19
WGN (75)	US IL CHICAGO	3.59	0.500	696.22s	106.25	589.96
WGN (76)	US IL CHICAGO	3.59	0.500	695.44s	104.79	590.66
WGN (77)	US IL CHICAGO	3.60	0.500	694.00s	103.31	590.69
WGN (78)	US IL CHICAGO	3.61	0.500	692.45s	101.84	590.61
WGN (79)	US IL CHICAGO	3.62	0.500	691.31s	100.39	590.92
WGN (80)	US IL CHICAGO	3.63	0.500	689.53s	98.94	590.59
WGN (81)	US IL CHICAGO	3.63	0.500	688.15s	97.51	590.64
WGN (82)	US IL CHICAGO	3.64	0.500	686.14s	96.08	590.06
WGN (83)	US IL CHICAGO	3.65	0.500	684.53s	94.67	589.86
WGN (84)	US IL CHICAGO	3.66	0.500	682.30s	93.28	589.02
WGN (85)	US IL CHICAGO	3.67	0.500	680.47s	91.90	588.56
WGN (86)	US IL CHICAGO	3.69	0.500	678.03s	90.55	587.47
WGN (87)	US IL CHICAGO	3.70	0.500	675.49s	89.23	586.26
WGN (88)	US IL CHICAGO	3.71	0.500	673.33s	87.92	585.41
WGN (89)	US IL CHICAGO	3.73	0.500	670.60s	86.65	583.94
WGN (90)	US IL CHICAGO	3.74	0.500	668.24s	85.41	582.83
WGN (91)	US IL CHICAGO	3.76	0.500	665.31s	84.21	581.10
WGN (92)	US IL CHICAGO	3.77	0.500	662.75s	83.04	579.71
WGN (93)	US IL CHICAGO	3.79	0.500	659.64s	81.91	577.73
WGN (94)	US IL CHICAGO	3.81	0.500	656.45s	80.84	575.61
WGN (95)	US IL CHICAGO	3.82	0.500	653.62s	79.80	573.81
WGN (96)	US IL CHICAGO	3.84	0.500	650.26s	78.83	571.43
WGN (97)	US IL CHICAGO	3.86	0.500	647.25s	77.90	569.35
WGN (98)	US IL CHICAGO	3.88	0.500	643.73s	77.04	566.70
WGN (99)	US IL CHICAGO	3.91	0.500	640.15s	76.24	563.91
WGN (100)	US IL CHICAGO	3.93	0.500	636.89s	75.50	561.39
WGN (101)	US IL CHICAGO	3.95	0.500	633.16s	74.84	558.33
WGN (102)	US IL CHICAGO	3.97	0.500	629.76s	74.24	555.52
WGN (103)	US IL CHICAGO	3.99	0.500	625.90s	73.73	552.16
WGN (104)	US IL CHICAGO	4.02	0.500	622.35s	73.29	549.05
WGN (105)	US IL CHICAGO	4.04	0.500	618.36s	72.95	545.42
WGN (106)	US IL CHICAGO	4.07	0.500	614.32s	72.68	541.64
WGN (107)	US IL CHICAGO	4.09	0.500	610.58s	72.51	538.08

WGN (108)	US IL CHICAGO	4.12	0.500	606.43S	72.42	534.01
WGN (109)	US IL CHICAGO	4.15	0.500	602.57S	72.43	530.15
WGN (110)	US IL CHICAGO	4.18	0.500	598.32S	72.53	525.79
WGN (111)	US IL CHICAGO	4.21	0.500	594.02S	72.72	521.31
WGN (112)	US IL CHICAGO	4.24	0.500	590.01S	73.01	517.00
WGN (113)	US IL CHICAGO	4.27	0.500	585.63S	73.38	512.24
WGN (114)	US IL CHICAGO	4.30	0.500	581.51S	73.86	507.65
WGN (115)	US IL CHICAGO	4.33	0.500	577.05S	74.43	502.63
WGN (116)	US IL CHICAGO	4.37	0.500	572.56S	75.08	497.48
WGN (117)	US IL CHICAGO	4.40	0.500	568.33S	75.84	492.49
WGN (118)	US IL CHICAGO	4.43	0.500	563.77S	76.66	487.10
WGN (119)	US IL CHICAGO	4.47	0.500	559.18S	77.57	481.61
WGN (120)	US IL CHICAGO	4.51	0.500	554.84S	78.59	476.25
WGN (121)	US IL CHICAGO	4.54	0.500	550.20S	79.66	470.54
WGN (122)	US IL CHICAGO	4.58	0.500	545.54S	80.81	464.73
WGN (123)	US IL CHICAGO	4.62	0.500	541.11S	82.06	459.05
WGN (124)	US IL CHICAGO	4.66	0.500	536.41S	83.35	453.07
WGN (125)	US IL CHICAGO	4.70	0.500	531.69S	84.70	447.00
WGN (126)	US IL CHICAGO	4.74	0.500	527.20S	86.16	441.04
WGN (127)	US IL CHICAGO	4.79	0.500	522.45S	87.63	434.82
WGN (128)	US IL CHICAGO	4.83	0.500	517.69S	89.15	428.53
WGN (129)	US IL CHICAGO	4.87	0.500	513.14S	90.79	422.35
WGN (130)	US IL CHICAGO	4.92	0.500	508.36S	92.42	415.94
WGN (131)	US IL CHICAGO	4.96	0.500	503.57S	94.09	409.48
WGN (132)	US IL CHICAGO	5.01	0.500	498.98S	95.87	403.11
WGN (133)	US IL CHICAGO	5.06	0.500	494.18S	97.62	396.56
WGN (134)	US IL CHICAGO	5.11	0.500	489.38S	99.41	389.97
WGN (135)	US IL CHICAGO	5.16	0.500	484.76S	101.31	383.46
WGN (136)	US IL CHICAGO	5.21	0.500	479.96S	103.16	376.80
WGN (137)	US IL CHICAGO	5.26	0.500	475.16S	105.03	370.12
WGN (138)	US IL CHICAGO	5.32	0.500	470.36S	106.93	363.42
WGN (139)	US IL CHICAGO	5.37	0.500	465.73S	108.94	356.78
WGN (140)	US IL CHICAGO	5.42	0.500	460.94S	110.88	350.05
WGN (141)	US IL CHICAGO	5.48	0.500	456.15S	112.84	343.31
WGN (142)	US IL CHICAGO	5.54	0.500	451.37S	114.81	336.57
WGN (143)	US IL CHICAGO	5.60	0.500	446.75S	116.89	329.86
WGN (144)	US IL CHICAGO	5.66	0.500	441.99S	118.88	323.11
WGN (145)	US IL CHICAGO	5.72	0.500	437.24S	120.88	316.37
WGN (146)	US IL CHICAGO	5.78	0.500	432.64S	122.99	309.65
WGN (147)	US IL CHICAGO	5.84	0.500	427.91S	124.99	302.92
WGN (148)	US IL CHICAGO	5.91	0.500	423.20S	126.99	296.20
WGN (149)	US IL CHICAGO	5.97	0.500	418.50S	128.99	289.50
WGN (150)	US IL CHICAGO	6.04	0.500	413.82S	130.99	282.83
WGN (151)	US IL CHICAGO	6.11	0.500	409.26S	133.11	276.16
WGN (152)	US IL CHICAGO	6.18	0.500	404.61S	135.09	269.52
WGN (153)	US IL CHICAGO	6.25	0.500	399.98S	137.06	262.92
WGN (154)	US IL CHICAGO	6.32	0.500	395.36S	139.02	256.34
WGN (155)	US IL CHICAGO	6.40	0.500	390.77S	140.97	249.81
WGN (156)	US IL CHICAGO	6.47	0.500	386.29S	143.04	243.25
WGN (157)	US IL CHICAGO	6.55	0.500	381.73S	144.95	236.78
WGN (158)	US IL CHICAGO	6.63	0.500	377.20S	146.85	230.35
WGN (159)	US IL CHICAGO	6.71	0.500	372.69S	148.72	223.97
WGN (160)	US IL CHICAGO	6.79	0.500	368.21S	150.57	217.63
WGN (161)	US IL CHICAGO	6.87	0.500	363.74S	152.40	211.35
WGN (162)	US IL CHICAGO	6.96	0.500	359.38S	154.36	205.02
WGN (163)	US IL CHICAGO	7.04	0.500	354.96S	156.13	198.83
WGN (164)	US IL CHICAGO	7.13	0.500	350.57S	157.88	192.69
WGN (165)	US IL CHICAGO	7.22	0.500	346.21S	159.59	186.62
WGN (166)	US IL CHICAGO	7.31	0.500	341.88S	161.27	180.60
WGN (167)	US IL CHICAGO	7.41	0.500	337.57S	162.92	174.65
WGN (168)	US IL CHICAGO	7.50	0.500	333.29S	164.53	168.77
WGN (169)	US IL CHICAGO	7.60	0.500	329.04S	166.10	162.95
WGN (170)	US IL CHICAGO	7.70	0.500	324.82S	167.63	157.20
WGN (171)	US IL CHICAGO	7.80	0.500	320.67S	169.30	151.36
WGN (172)	US IL CHICAGO	7.90	0.500	316.51S	170.75	145.75
WGN (173)	US IL CHICAGO	8.00	0.500	312.38S	172.16	140.22
WGN (174)	US IL CHICAGO	8.11	0.500	308.28S	173.52	134.76
WGN (175)	US IL CHICAGO	8.22	0.500	304.21S	174.83	129.38
WGN (176)	US IL CHICAGO	8.33	0.500	300.18S	176.09	124.08
WGN (177)	US IL CHICAGO	8.44	0.500	296.17S	177.30	118.87
WGN (178)	US IL CHICAGO	8.56	0.500	292.21S	178.46	113.74

WGN (179)	US IL CHICAGO	8.67	0.500	288.27S	179.57	108.71
WGN (180)	US IL CHICAGO	8.79	0.500	284.38S	180.61	103.76
WGN (181)	US IL CHICAGO	8.91	0.500	280.51S	181.60	98.91
WGN (182)	US IL CHICAGO	9.04	0.500	276.68S	182.53	94.15
WGN (183)	US IL CHICAGO	9.16	0.500	272.89S	183.40	89.49
WGN (184)	US IL CHICAGO	9.29	0.500	269.14S	184.21	84.93
WGN (185)	US IL CHICAGO	9.42	0.500	265.42S	184.95	80.47
WGN (186)	US IL CHICAGO	9.55	0.500	261.74S	185.63	76.11
WGN (187)	US IL CHICAGO	9.69	0.500	258.10S	186.24	71.86
WGN (188)	US IL CHICAGO	9.82	0.500	254.49S	186.78	67.72
WGN (189)	US IL CHICAGO	9.96	0.500	250.93S	187.24	63.68
WGN (190)	US IL CHICAGO	10.10	0.500	247.40S	187.64	59.76
WGN (191)	US IL CHICAGO	10.25	0.500	243.92S	187.96	55.96
WGN (192)	US IL CHICAGO	10.40	0.500	240.47S	188.20	52.27
WGN (193)	US IL CHICAGO	10.55	0.500	237.07S	188.37	48.70
WGN (194)	US IL CHICAGO	10.70	0.500	233.71S	188.45	45.25
WGN (195)	US IL CHICAGO	10.85	0.500	230.39S	188.46	41.93
WGN (196)	US IL CHICAGO	11.01	0.500	227.11S	188.38	38.73
WGN (197)	US IL CHICAGO	11.17	0.500	223.87S	188.21	35.66
WGN (198)	US IL CHICAGO	11.33	0.500	220.68S	187.96	32.72
WGN (199)	US IL CHICAGO	11.49	0.500	217.53S	187.63	29.91
WGN (200)	US IL CHICAGO	11.66	0.500	214.43S	187.20	27.23
WGN (201)	US IL CHICAGO	11.83	0.500	211.37S	186.68	24.69
WGN (202)	US IL CHICAGO	12.00	0.500	208.36S	186.07	22.29
WGN (203)	US IL CHICAGO	12.17	0.500	205.44S	185.11	20.33
WGN (204)	US IL CHICAGO	12.34	0.500	202.52S	184.31	18.21
WGN (205)	US IL CHICAGO	12.52	0.500	199.65S	183.41	16.24
WGN (206)	US IL CHICAGO	12.70	0.500	196.82S	182.41	14.41
WGN (207)	US IL CHICAGO	12.88	0.500	194.04S	181.31	12.73
WGN (208)	US IL CHICAGO	13.07	0.500	191.31S	180.12	11.20
WGN (209)	US IL CHICAGO	13.25	0.500	188.63S	178.82	9.81
WGN (210)	US IL CHICAGO	13.44	0.500	186.00S	177.42	8.58
WGN (211)	US IL CHICAGO	13.63	0.500	183.41S	175.91	7.50
WGN (212)	US IL CHICAGO	13.82	0.500	180.95S	174.05	6.90
WGN (213)	US IL CHICAGO	14.01	0.500	178.47S	172.34	6.13
WGN (214)	US IL CHICAGO	14.20	0.500	176.04S	170.53	5.51
WGN (215)	US IL CHICAGO	14.40	0.500	173.66S	168.61	5.05
WGN (216)	US IL CHICAGO	14.59	0.500	171.33S	166.58	4.75
WGN (217)	US IL CHICAGO	14.79	0.500	169.06S	164.46	4.60
WGN (218)	US IL CHICAGO	14.98	0.500	166.92S	161.98	4.94
WGN (219)	US IL CHICAGO	15.17	0.500	164.75S	159.65	5.10
WGN (220)	US IL CHICAGO	15.37	0.500	162.64S	157.22	5.41
WGN (221)	US IL CHICAGO	15.57	0.500	160.58S	154.70	5.88
WGN (222)	US IL CHICAGO	15.77	0.500	158.57S	152.07	6.50
WGN (223)	US IL CHICAGO	15.95	0.500	156.71S	149.12	7.59
WGN (224)	US IL CHICAGO	16.15	0.500	154.82S	146.32	8.50
WGN (225)	US IL CHICAGO	16.34	0.500	152.98S	143.44	9.54
WGN (226)	US IL CHICAGO	16.53	0.500	151.20S	140.49	10.70
WGN (227)	US IL CHICAGO	16.73	0.500	149.47S	137.48	11.99
WGN (228)	US IL CHICAGO	16.90	0.500	147.91S	134.19	13.72
WGN (229)	US IL CHICAGO	17.09	0.500	146.30S	131.04	15.26
WGN (230)	US IL CHICAGO	17.27	0.500	144.75S	127.85	16.90
WGN (231)	US IL CHICAGO	17.44	0.500	143.36S	124.42	18.94
WGN (232)	US IL CHICAGO	17.61	0.500	141.93S	121.14	20.79
WGN (233)	US IL CHICAGO	17.79	0.500	140.55S	117.85	22.70
WGN (234)	US IL CHICAGO	17.95	0.500	139.24S	114.55	24.68
WGN (235)	US IL CHICAGO	18.10	0.500	138.10S	111.09	27.00
WGN (236)	US IL CHICAGO	18.26	0.500	136.90S	107.79	29.11
WGN (237)	US IL CHICAGO	18.41	0.500	135.77S	104.55	31.22
WGN (238)	US IL CHICAGO	18.56	0.500	134.69S	101.32	33.37
WGN (239)	US IL CHICAGO	18.68	0.500	133.80S	98.08	35.72
WGN (240)	US IL CHICAGO	18.82	0.500	132.85S	95.06	37.79
WGN (241)	US IL CHICAGO	18.94	0.500	131.96S	92.11	39.85
WGN (242)	US IL CHICAGO	19.05	0.500	131.26S	89.26	42.00
WGN (243)	US IL CHICAGO	19.16	0.500	130.50S	86.62	43.88
WGN (244)	US IL CHICAGO	19.26	0.500	129.79S	84.17	45.62
WGN (245)	US IL CHICAGO	19.34	0.500	129.28S	81.95	47.34
WGN (246)	US IL CHICAGO	19.42	0.500	128.71S	79.97	48.74
WGN (247)	US IL CHICAGO	19.50	0.500	128.20S	78.36	49.84
WGN (248)	US IL CHICAGO	19.55	0.500	127.88S	76.93	50.95
WGN (249)	US IL CHICAGO	19.61	0.500	127.50S	75.87	51.63

WGN (250)	US IL CHICAGO	19.66	0.500	127.18S	75.24	51.94
WGN (251)	US IL CHICAGO	19.68	0.500	127.06S	74.86	52.20
WGN (252)	US IL CHICAGO	19.71	0.500	126.87S	74.85	52.02
WGN (253)	US IL CHICAGO	19.73	0.500	126.74S	75.19	51.55
WGN (254)	US IL CHICAGO	19.71	0.500	126.82S	75.89	50.93
WGN (255)	US IL CHICAGO	19.71	0.500	126.82S	76.91	49.91
WGN (256)	US IL CHICAGO	19.70	0.500	126.89S	78.24	48.65
WGN (257)	US IL CHICAGO	19.66	0.500	127.16S	79.87	47.30
WGN (258)	US IL CHICAGO	19.63	0.500	127.36S	81.83	45.53
WGN (259)	US IL CHICAGO	19.57	0.500	127.77S	83.86	43.91
WGN (260)	US IL CHICAGO	19.52	0.500	128.10S	86.17	41.94
WGN (261)	US IL CHICAGO	19.43	0.500	128.64S	88.65	39.98
WGN (262)	US IL CHICAGO	19.36	0.500	129.10S	91.28	37.82
WGN (263)	US IL CHICAGO	19.29	0.500	129.63S	94.03	35.60
WGN (264)	US IL CHICAGO	19.18	0.500	130.37S	96.87	33.49
WGN (265)	US IL CHICAGO	19.08	0.500	131.03S	99.80	31.23
WGN (266)	US IL CHICAGO	18.97	0.500	131.75S	102.71	29.04
WGN (267)	US IL CHICAGO	18.84	0.500	132.69S	105.72	26.97
WGN (268)	US IL CHICAGO	18.72	0.500	133.55S	108.77	24.77
WGN (269)	US IL CHICAGO	18.57	0.500	134.62S	111.81	22.80
WGN (270)	US IL CHICAGO	18.44	0.500	135.61S	114.82	20.79
WGN (271)	US IL CHICAGO	18.29	0.500	136.66S	117.87	18.79
WGN (272)	US IL CHICAGO	18.13	0.500	137.93S	120.81	17.12
WGN (273)	US IL CHICAGO	17.97	0.500	139.12S	123.82	15.30
WGN (274)	US IL CHICAGO	17.79	0.500	140.52S	126.74	13.78
WGN (275)	US IL CHICAGO	17.63	0.500	141.84S	129.62	12.22
WGN (276)	US IL CHICAGO	17.44	0.500	143.37S	132.45	10.92
WGN (277)	US IL CHICAGO	17.26	0.500	144.82S	135.24	9.59
WGN (278)	US IL CHICAGO	17.08	0.500	146.35S	138.01	8.33
WGN (279)	US IL CHICAGO	16.88	0.500	148.07S	140.63	7.45
WGN (280)	US IL CHICAGO	16.70	0.500	149.73S	143.28	6.44
WGN (281)	US IL CHICAGO	16.49	0.500	151.58S	145.77	5.82
WGN (282)	US IL CHICAGO	16.30	0.500	153.37S	148.30	5.07
WGN (283)	US IL CHICAGO	16.09	0.500	155.36S	150.65	4.71
WGN (284)	US IL CHICAGO	15.90	0.500	157.28S	153.02	4.26
WGN (285)	US IL CHICAGO	15.68	0.500	159.40S	155.26	4.14
WGN (286)	US IL CHICAGO	15.49	0.500	161.45S	157.50	3.95
WGN (287)	US IL CHICAGO	15.28	0.500	163.56S	159.67	3.89
WGN (288)	US IL CHICAGO	15.07	0.500	165.88S	161.70	4.17
WGN (289)	US IL CHICAGO	14.87	0.500	168.12S	163.74	4.38
WGN (290)	US IL CHICAGO	14.66	0.500	170.57S	165.63	4.93
WGN (291)	US IL CHICAGO	14.46	0.500	172.94S	167.54	5.40
WGN (292)	US IL CHICAGO	14.24	0.500	175.51S	169.28	6.24
WGN (293)	US IL CHICAGO	14.04	0.500	178.02S	171.08	6.95
WGN (294)	US IL CHICAGO	13.84	0.500	180.60S	172.79	7.81
WGN (295)	US IL CHICAGO	13.63	0.500	183.36S	174.33	9.03
WGN (296)	US IL CHICAGO	13.44	0.500	186.07S	175.92	10.14
WGN (297)	US IL CHICAGO	13.23	0.500	188.95S	177.36	11.59
WGN (298)	US IL CHICAGO	13.04	0.500	191.79S	178.83	12.96
WGN (299)	US IL CHICAGO	12.83	0.500	194.80S	180.13	14.67
WGN (300)	US IL CHICAGO	12.64	0.500	197.76S	181.50	16.26
WGN (301)	US IL CHICAGO	12.45	0.500	200.79S	182.80	17.99
WGN (302)	US IL CHICAGO	12.26	0.500	203.99S	183.93	20.06
WGN (303)	US IL CHICAGO	12.07	0.500	207.15S	185.13	22.02
WGN (304)	US IL CHICAGO	11.88	0.500	210.47S	186.15	24.32
WGN (305)	US IL CHICAGO	11.70	0.500	213.75S	187.23	26.51
WGN (306)	US IL CHICAGO	11.52	0.500	217.09S	188.27	28.83
WGN (307)	US IL CHICAGO	11.33	0.500	220.59S	189.15	31.45
WGN (308)	US IL CHICAGO	11.16	0.500	224.06S	190.08	33.98
WGN (309)	US IL CHICAGO	10.98	0.500	227.60S	190.97	36.63
WGN (310)	US IL CHICAGO	10.81	0.500	231.27S	191.70	39.57
WGN (311)	US IL CHICAGO	10.64	0.500	234.93S	192.50	42.43
WGN (312)	US IL CHICAGO	10.47	0.500	238.72S	193.13	45.59
WGN (313)	US IL CHICAGO	10.31	0.500	242.49S	193.85	48.64
WGN (314)	US IL CHICAGO	10.15	0.500	246.33S	194.51	51.81
WGN (315)	US IL CHICAGO	9.99	0.500	250.28S	195.01	55.27
WGN (316)	US IL CHICAGO	9.83	0.500	254.24S	195.61	58.63
WGN (317)	US IL CHICAGO	9.68	0.500	258.30S	196.03	62.27
WGN (318)	US IL CHICAGO	9.53	0.500	262.37S	196.53	65.83
WGN (319)	US IL CHICAGO	9.38	0.500	266.49S	197.01	69.48
WGN (320)	US IL CHICAGO	9.23	0.500	270.71S	197.32	73.39

WGN (321)	US IL CHICAGO	9.09	0.500	274.94S	197.71	77.23
WGN (322)	US IL CHICAGO	8.95	0.500	279.24S	198.08	81.16
WGN (323)	US IL CHICAGO	8.82	0.500	283.60S	198.28	85.32
WGN (324)	US IL CHICAGO	8.68	0.500	288.00S	198.57	89.43
WGN (325)	US IL CHICAGO	8.55	0.500	292.45S	198.83	93.61
WGN (326)	US IL CHICAGO	8.42	0.500	296.96S	198.94	98.02
WGN (327)	US IL CHICAGO	8.29	0.500	301.50S	199.13	102.38
WGN (328)	US IL CHICAGO	8.17	0.500	306.10S	199.29	106.81
WGN (329)	US IL CHICAGO	8.05	0.500	310.75S	199.42	111.33
WGN (330)	US IL CHICAGO	7.93	0.500	315.43S	199.41	116.02
WGN (331)	US IL CHICAGO	7.81	0.500	320.17S	199.48	120.69
WGN (332)	US IL CHICAGO	7.69	0.500	324.96S	199.53	125.43
WGN (333)	US IL CHICAGO	7.58	0.500	329.75S	199.43	130.32
WGN (334)	US IL CHICAGO	7.47	0.500	334.62S	199.42	135.21
WGN (335)	US IL CHICAGO	7.36	0.500	339.53S	199.38	140.15
WGN (336)	US IL CHICAGO	7.26	0.500	344.49S	199.31	145.17
WGN (337)	US IL CHICAGO	7.15	0.500	349.42S	199.11	150.31
WGN (338)	US IL CHICAGO	7.05	0.500	354.44S	198.99	155.45
WGN (339)	US IL CHICAGO	6.95	0.500	359.51S	198.85	160.65
WGN (340)	US IL CHICAGO	6.86	0.500	364.61S	198.69	165.92
WGN (341)	US IL CHICAGO	6.76	0.500	369.74S	198.50	171.24
WGN (342)	US IL CHICAGO	6.67	0.500	374.80S	198.17	176.63
WGN (343)	US IL CHICAGO	6.58	0.500	379.99S	197.94	182.06
WGN (344)	US IL CHICAGO	6.49	0.500	385.21S	197.68	187.54
WGN (345)	US IL CHICAGO	6.40	0.500	390.46S	197.40	193.06
WGN (346)	US IL CHICAGO	6.32	0.500	395.73S	197.09	198.64
WGN (347)	US IL CHICAGO	6.24	0.500	400.89S	196.66	204.23
WGN (348)	US IL CHICAGO	6.16	0.502	407.26S	196.16	211.11
WGN (349)	US IL CHICAGO	6.08	0.503	413.16S	195.58	217.58
WGN (350)	US IL CHICAGO	6.01	0.506	420.98S	194.85	226.14
WGN (351)	US IL CHICAGO	5.95	0.510	428.55S	194.01	234.54
WGN (352)	US IL CHICAGO	5.88	0.512	435.48S	193.25	242.23
WGN (353)	US IL CHICAGO	5.79	0.506	436.53S	193.53	243.00
WGN (354)	US IL CHICAGO	5.70	0.500	438.41S	193.80	244.60
WGN (355)	US IL CHICAGO	5.63	0.500	443.82S	193.32	250.50
WGN (356)	US IL CHICAGO	5.57	0.500	449.01S	192.71	256.31
WGN (357)	US IL CHICAGO	5.50	0.500	454.42S	192.18	262.24
WGN (358)	US IL CHICAGO	5.44	0.500	459.83S	191.64	268.19
WGN (359)	US IL CHICAGO	5.37	0.500	465.24S	191.08	274.16
XENVA2/O	MX CH CD.JUAREZ	70.68	6.744	477.08	468.50	8.58
50% = 10.084, 25% = 10.084; KDWN=6.74 WGN=5.98 KSAH=4.52						
NEW MEDICINE HATCA AB MEDICINE HAT		23.59	3.217	681.83	421.05	260.78
50% = 6.433, 25% = 6.848; WGN=6.43 KDWN=2.35						
KSAH	US TX UNIVERSAL CITY	18.63	2.789	748.60	395.95	352.65
50% = 10.395, 25% = 11.174; WGN=10.39 XEX/A=3.00 KEEL=2.79						
KBBB	US AZ BLACK CANYON CI	179.11	3.164	883.19	510.26	372.93
50% = 12.655, 25% = 12.655; KSPN=10.49 KNUS=7.08						
KDBI	US ID BOISE	59.24	1.421	1199.12	562.67	636.45
50% = 5.683, 25% = 5.683; XEX/A=4.35 CHMJ/A=3.66						
NEW KELOWNA/	CA BC KELOWNA	23.88	6.470	1354.84	599.85	754.99
50% = 7.558, 25% = 8.148; KDWN=6.47 NEW MEDICINE HAT/ =3.91 WGN=3.04						
XEVU/O	MX SI MAZATLAN	18.41	6.118	1661.78	681.86	979.91
50% = 8.389, 25% = 9.088; KDWN=6.12 KSAH=5.74 WGN=2.66 XEKN/A=2.26						
KIRO (0)	US WA SEATTLE	18.48	2.025	5479.11g	665.88	4813.22
KIRO (1)	US WA SEATTLE	18.51	1.957	5286.04g	665.11	4620.93
KIRO (2)	US WA SEATTLE	18.54	1.827	4928.11g	664.33	4263.77
KIRO (3)	US WA SEATTLE	18.57	1.535	4135.25g	663.55	3471.69
KIRO (4)	US WA SEATTLE	18.59	1.294	3479.07g	662.77	2816.30
KIRO (5)	US WA SEATTLE	18.62	1.153	3096.99g	661.98	2435.00
KIRO (6)	US WA SEATTLE	18.65	1.064	2852.62g	661.19	2191.42
KIRO (7)	US WA SEATTLE	18.68	0.971	2599.45g	660.40	1939.06
KIRO (8)	US WA SEATTLE	18.71	0.873	2332.51g	659.60	1672.92
KIRO (9)	US WA SEATTLE	18.74	0.844	2251.01g	658.78	1592.24

KIRO (10)	US WA SEATTLE	18.77	0.820	2184.14g	657.97	1526.17
KIRO (11)	US WA SEATTLE	18.80	0.805	2140.47g	657.16	1483.31
KIRO (12)	US WA SEATTLE	18.83	0.789	2095.05g	656.35	1438.70
KIRO (13)	US WA SEATTLE	18.86	0.773	2050.38g	655.53	1394.85
KIRO (14)	US WA SEATTLE	18.89	0.698	1848.31g	654.70	1193.61
KIRO (15)	US WA SEATTLE	18.92	0.689	1820.63g	653.86	1166.78
KIRO (16)	US WA SEATTLE	18.95	0.678	1790.05g	653.00	1137.06
KIRO (17)	US WA SEATTLE	18.98	0.667	1756.71g	652.11	1104.60
KIRO (18)	US WA SEATTLE	19.01	0.655	1723.27g	651.21	1072.06
KIRO (19)	US WA SEATTLE	19.03	0.644	1710.89E	650.29	1060.60
KIRO (20)	US WA SEATTLE	19.06	0.633	1705.24E	649.37	1055.86
KIRO (21)	US WA SEATTLE	19.09	0.621	1699.54E	648.44	1051.10
KIRO (22)	US WA SEATTLE	19.12	0.609	1693.80E	647.46	1046.34
KIRO (23)	US WA SEATTLE	19.15	0.595	1687.99E	646.49	1041.50
KIRO (24)	US WA SEATTLE	19.18	0.580	1682.05E	645.49	1036.56
KIRO (25)	US WA SEATTLE	19.21	0.566	1676.14E	644.49	1031.65
KIRO (26)	US WA SEATTLE	19.25	0.551	1670.08E	643.47	1026.60
KIRO (27)	US WA SEATTLE	19.28	0.535	1664.08E	642.44	1021.64
KIRO (28)	US WA SEATTLE	19.31	0.520	1658.02E	641.38	1016.64
KIRO (29)	US WA SEATTLE	19.35	0.503	1651.87E	640.29	1011.57
KIRO (30)	US WA SEATTLE	19.42	0.500	1648.10E	639.62	1008.47
KIRO (31)	US WA SEATTLE	19.50	0.500	1645.20E	639.11	1006.09
KIRO (32)	US WA SEATTLE	19.59	0.500	1642.47E	638.59	1003.88
KIRO (33)	US WA SEATTLE	19.67	0.500	1639.77E	638.13	1001.64
KIRO (34)	US WA SEATTLE	19.76	0.500	1637.36E	637.69	999.67
KIRO (35)	US WA SEATTLE	19.85	0.500	1635.13E	637.28	997.85
KIRO (36)	US WA SEATTLE	19.95	0.500	1633.05E	636.90	996.15
KIRO (37)	US WA SEATTLE	20.04	0.500	1631.09E	636.52	994.58
KIRO (38)	US WA SEATTLE	20.14	0.500	1629.27E	636.18	993.09
KIRO (39)	US WA SEATTLE	20.23	0.500	1627.44E	635.87	991.58
KIRO (40)	US WA SEATTLE	20.33	0.500	1625.88E	635.58	990.30
KIRO (41)	US WA SEATTLE	20.43	0.500	1624.45E	635.31	989.14
KIRO (42)	US WA SEATTLE	20.53	0.500	1623.15E	635.04	988.11
KIRO (43)	US WA SEATTLE	20.63	0.500	1621.84E	634.82	987.02
KIRO (44)	US WA SEATTLE	20.74	0.500	1620.81E	634.63	986.18
KIRO (45)	US WA SEATTLE	20.84	0.500	1619.91E	634.46	985.45
KIRO (46)	US WA SEATTLE	20.95	0.500	1619.18E	634.30	984.89
KIRO (47)	US WA SEATTLE	21.05	0.500	1618.62E	634.19	984.43
KIRO (48)	US WA SEATTLE	21.16	0.500	1618.08E	634.12	983.96
KIRO (49)	US WA SEATTLE	21.27	0.500	1617.84E	634.07	983.77
KIRO (50)	US WA SEATTLE	21.38	0.500	1617.79E	634.06	983.72
KIRO (51)	US WA SEATTLE	21.48	0.500	1617.91E	634.06	983.85
KIRO (52)	US WA SEATTLE	21.60	0.500	1618.21E	634.11	984.10
KIRO (53)	US WA SEATTLE	21.71	0.500	1618.56E	634.20	984.35
KIRO (54)	US WA SEATTLE	21.82	0.500	1619.25E	634.33	984.92
KIRO (55)	US WA SEATTLE	21.93	0.500	1620.15E	634.50	985.64
KIRO (56)	US WA SEATTLE	22.04	0.500	1621.26E	634.68	986.59
KIRO (57)	US WA SEATTLE	22.15	0.500	1622.63E	634.93	987.69
KIRO (58)	US WA SEATTLE	22.27	0.500	1624.09E	635.23	988.85
KIRO (59)	US WA SEATTLE	22.38	0.500	1626.01E	635.59	990.42
KIRO (60)	US WA SEATTLE	22.49	0.500	1628.21E	635.97	992.24
KIRO (61)	US WA SEATTLE	22.60	0.500	1630.68E	636.42	994.26
KIRO (62)	US WA SEATTLE	22.72	0.500	1633.27E	636.93	996.34
KIRO (63)	US WA SEATTLE	22.83	0.500	1636.31E	637.49	998.83
KIRO (64)	US WA SEATTLE	22.94	0.500	1639.66E	638.09	1001.56
KIRO (65)	US WA SEATTLE	23.04	0.500	1643.32E	638.72	1004.60
KIRO (66)	US WA SEATTLE	23.15	0.500	1647.27E	639.43	1007.84
KIRO (67)	US WA SEATTLE	23.25	0.500	1651.49E	640.18	1011.32
KIRO (68)	US WA SEATTLE	23.35	0.500	1655.80E	640.97	1014.83
KIRO (69)	US WA SEATTLE	23.45	0.500	1660.58E	641.81	1018.77
KIRO (70)	US WA SEATTLE	23.55	0.500	1665.61E	642.68	1022.92
KIRO (71)	US WA SEATTLE	23.64	0.500	1670.83E	643.55	1027.28
KIRO (72)	US WA SEATTLE	23.73	0.500	1676.23E	644.47	1031.75
KIRO (73)	US WA SEATTLE	23.82	0.500	1681.78E	645.42	1036.37
KIRO (74)	US WA SEATTLE	23.90	0.500	1687.23E	646.37	1040.87
KIRO (75)	US WA SEATTLE	23.98	0.500	1692.89E	647.31	1045.58
KIRO (76)	US WA SEATTLE	24.06	0.500	1698.65E	648.27	1050.38
KIRO (77)	US WA SEATTLE	24.13	0.500	1704.67E	649.26	1055.41
KIRO (78)	US WA SEATTLE	24.20	0.500	1710.94E	650.24	1060.70
KIRO (79)	US WA SEATTLE	24.27	0.500	1717.44E	651.30	1066.15
KIRO (80)	US WA SEATTLE	24.33	0.500	1724.21E	652.38	1071.82

KIRO (81)	US WA SEATTLE	24.38	0.500	1731.21E	653.50	1077.71
KIRO (82)	US WA SEATTLE	24.43	0.500	1738.45E	654.64	1083.80
KIRO (83)	US WA SEATTLE	24.48	0.500	1745.72E	655.82	1089.90
KIRO (84)	US WA SEATTLE	24.52	0.500	1753.41E	657.02	1096.39
KIRO (85)	US WA SEATTLE	24.55	0.500	1761.31E	658.24	1103.07
KIRO (86)	US WA SEATTLE	24.58	0.500	1769.38E	659.48	1109.90
KIRO (87)	US WA SEATTLE	24.60	0.500	1777.57E	660.73	1116.84
KIRO (88)	US WA SEATTLE	24.62	0.500	1785.84E	661.98	1123.86
KIRO (89)	US WA SEATTLE	24.63	0.500	1794.07E	663.22	1130.85
KIRO (90)	US WA SEATTLE	24.64	0.500	1802.12E	664.42	1137.69
KIRO (91)	US WA SEATTLE	24.65	0.500	1809.78E	665.56	1144.22
KIRO (92)	US WA SEATTLE	24.65	0.500	1816.79E	666.60	1150.18
KIRO (93)	US WA SEATTLE	24.67	0.500	1822.79E	667.49	1155.30
KIRO (94)	US WA SEATTLE	24.69	0.500	1827.45E	668.17	1159.28
KIRO (95)	US WA SEATTLE	24.72	0.500	1830.50E	668.62	1161.88
KIRO (96)	US WA SEATTLE	24.76	0.500	1831.98E	668.84	1163.15
KIRO (97)	US WA SEATTLE	24.82	0.500	1832.17E	668.87	1163.31
KIRO (98)	US WA SEATTLE	24.89	0.500	1831.34E	668.70	1162.64
KIRO (99)	US WA SEATTLE	24.97	0.500	1829.83E	668.48	1161.35
KIRO (100)	US WA SEATTLE	25.06	0.500	1827.95E	668.21	1159.75
KIRO (101)	US WA SEATTLE	25.15	0.500	1825.68E	667.91	1157.77
KIRO (102)	US WA SEATTLE	25.25	0.500	1823.69E	667.62	1156.07
KIRO (103)	US WA SEATTLE	25.35	0.500	1821.85E	667.35	1154.50
KIRO (104)	US WA SEATTLE	25.45	0.500	1820.22E	667.06	1153.16
KIRO (105)	US WA SEATTLE	25.56	0.500	1818.87E	666.87	1152.00
KIRO (106)	US WA SEATTLE	25.66	0.500	1817.82E	666.71	1151.10
KIRO (107)	US WA SEATTLE	25.76	0.500	1816.82E	666.60	1150.21
KIRO (108)	US WA SEATTLE	25.86	0.500	1816.38E	666.54	1149.84
KIRO (109)	US WA SEATTLE	25.96	0.500	1816.25E	666.48	1149.78
KIRO (110)	US WA SEATTLE	26.06	0.500	1816.42E	666.50	1149.92
KIRO (111)	US WA SEATTLE	26.16	0.500	1816.89E	666.57	1150.32
KIRO (112)	US WA SEATTLE	26.26	0.500	1817.39E	666.68	1150.70
KIRO (113)	US WA SEATTLE	26.35	0.500	1818.43E	666.84	1151.59
KIRO (114)	US WA SEATTLE	26.45	0.500	1819.74E	667.03	1152.71
KIRO (115)	US WA SEATTLE	26.54	0.500	1821.30E	667.22	1154.09
KIRO (116)	US WA SEATTLE	26.63	0.500	1823.12E	667.49	1155.64
KIRO (117)	US WA SEATTLE	26.71	0.500	1825.18E	667.79	1157.39
KIRO (118)	US WA SEATTLE	26.80	0.500	1827.48E	668.13	1159.35
KIRO (119)	US WA SEATTLE	26.88	0.500	1829.74E	668.50	1161.24
KIRO (120)	US WA SEATTLE	26.96	0.500	1832.49E	668.90	1163.58
KIRO (121)	US WA SEATTLE	27.04	0.500	1835.44E	669.33	1166.11
KIRO (122)	US WA SEATTLE	27.11	0.500	1838.59E	669.75	1168.85
KIRO (123)	US WA SEATTLE	27.18	0.500	1841.94E	670.24	1171.70
KIRO (124)	US WA SEATTLE	27.25	0.500	1845.46E	670.75	1174.71
KIRO (125)	US WA SEATTLE	27.31	0.500	1849.17E	671.29	1177.88
KIRO (126)	US WA SEATTLE	27.37	0.500	1853.08E	671.86	1181.23
KIRO (127)	US WA SEATTLE	27.42	0.500	1857.15E	672.45	1184.70
KIRO (128)	US WA SEATTLE	27.47	0.500	1861.08E	673.05	1188.02
KIRO (129)	US WA SEATTLE	27.52	0.500	1865.41E	673.68	1191.73
KIRO (130)	US WA SEATTLE	27.56	0.500	1869.87E	674.32	1195.55
KIRO (131)	US WA SEATTLE	27.60	0.500	1874.44E	674.98	1199.46
KIRO (132)	US WA SEATTLE	27.64	0.500	1879.11E	675.65	1203.46
KIRO (133)	US WA SEATTLE	27.67	0.500	1883.88E	676.33	1207.54
KIRO (134)	US WA SEATTLE	27.70	0.500	1888.72E	676.98	1211.74
KIRO (135)	US WA SEATTLE	27.72	0.500	1893.63E	677.68	1215.96
KIRO (136)	US WA SEATTLE	27.73	0.500	1898.61E	678.39	1220.22
KIRO (137)	US WA SEATTLE	27.75	0.500	1903.63E	679.10	1224.53
KIRO (138)	US WA SEATTLE	27.75	0.500	1908.69E	679.82	1228.87
KIRO (139)	US WA SEATTLE	27.76	0.500	1913.78E	680.54	1233.23
KIRO (140)	US WA SEATTLE	27.76	0.500	1918.88E	681.27	1237.61
KIRO (141)	US WA SEATTLE	27.75	0.500	1923.98E	681.99	1241.99
KIRO (142)	US WA SEATTLE	27.74	0.500	1929.07E	682.71	1246.36
KIRO (143)	US WA SEATTLE	27.72	0.500	1934.15E	683.48	1250.67
KIRO (144)	US WA SEATTLE	27.69	0.500	1939.18E	684.19	1254.99
KIRO (145)	US WA SEATTLE	27.67	0.500	1944.17E	684.89	1259.28
KIRO (146)	US WA SEATTLE	27.63	0.500	1949.09E	685.59	1263.51
KIRO (147)	US WA SEATTLE	27.59	0.500	1953.94E	686.27	1267.67
KIRO (148)	US WA SEATTLE	27.55	0.500	1958.70E	686.94	1271.76
KIRO (149)	US WA SEATTLE	27.50	0.500	1963.66E	687.60	1276.06
KIRO (150)	US WA SEATTLE	27.44	0.500	1968.19E	688.23	1279.96
KIRO (151)	US WA SEATTLE	27.38	0.500	1972.60E	688.85	1283.74

KIRO (152)	US WA SEATTLE	27.31	0.500	1976.85E	689.45	1287.40
KIRO (153)	US WA SEATTLE	27.24	0.500	1980.95E	690.03	1290.92
KIRO (154)	US WA SEATTLE	27.16	0.500	1984.87E	690.63	1294.24
KIRO (155)	US WA SEATTLE	27.08	0.500	1988.60E	691.15	1297.45
KIRO (156)	US WA SEATTLE	26.99	0.500	1992.43E	691.65	1300.78
KIRO (157)	US WA SEATTLE	26.90	0.500	1995.75E	692.11	1303.63
KIRO (158)	US WA SEATTLE	26.80	0.500	1998.85E	692.55	1306.30
KIRO (159)	US WA SEATTLE	26.70	0.500	2001.73E	692.95	1308.78
KIRO (160)	US WA SEATTLE	26.61	0.500	2004.41E	693.38	1311.03
KIRO (161)	US WA SEATTLE	26.51	0.500	2006.91E	693.73	1313.18
KIRO (162)	US WA SEATTLE	26.42	0.500	2009.58E	694.06	1315.52
KIRO (163)	US WA SEATTLE	26.34	0.500	2011.92E	694.39	1317.53
KIRO (164)	US WA SEATTLE	26.28	0.500	2014.32E	694.73	1319.59
KIRO (165)	US WA SEATTLE	26.24	0.500	2016.95E	695.10	1321.86
KIRO (166)	US WA SEATTLE	26.23	0.500	2019.96E	695.52	1324.44
KIRO (167)	US WA SEATTLE	26.26	0.500	2023.65E	696.04	1327.61
KIRO (168)	US WA SEATTLE	26.33	0.500	2028.24E	696.69	1331.55
KIRO (169)	US WA SEATTLE	26.43	0.500	2033.62E	697.45	1336.16
KIRO (170)	US WA SEATTLE	26.56	0.500	2039.35E	698.31	1341.04
KIRO (171)	US WA SEATTLE	26.69	0.500	2045.87E	699.24	1346.63
KIRO (172)	US WA SEATTLE	26.82	0.500	2052.76E	700.16	1352.59
KIRO (173)	US WA SEATTLE	26.95	0.500	2059.92E	701.18	1358.73
KIRO (174)	US WA SEATTLE	27.08	0.500	2067.27E	702.23	1365.04
KIRO (175)	US WA SEATTLE	27.19	0.500	2074.46E	703.31	1371.16
KIRO (176)	US WA SEATTLE	27.30	0.500	2082.13E	704.41	1377.72
KIRO (177)	US WA SEATTLE	27.41	0.500	2089.99E	705.48	1384.51
KIRO (178)	US WA SEATTLE	27.51	0.500	2097.94E	706.63	1391.31
KIRO (179)	US WA SEATTLE	27.59	0.500	2105.90E	707.78	1398.12
KIRO (180)	US WA SEATTLE	27.67	0.500	2113.87E	708.93	1404.94
KIRO (181)	US WA SEATTLE	27.74	0.500	2121.48E	710.09	1411.39
KIRO (182)	US WA SEATTLE	27.80	0.500	2129.41E	711.24	1418.16
KIRO (183)	US WA SEATTLE	27.85	0.500	2137.30E	712.40	1424.90
KIRO (184)	US WA SEATTLE	27.89	0.500	2145.00E	713.53	1431.47
KIRO (185)	US WA SEATTLE	27.93	0.500	2152.66E	714.66	1438.00
KIRO (186)	US WA SEATTLE	27.96	0.500	2160.28E	715.79	1444.49
KIRO (187)	US WA SEATTLE	27.98	0.500	2167.85E	716.92	1450.93
KIRO (188)	US WA SEATTLE	27.71	0.500	2164.02E	716.29	1447.73
KIRO (189)	US WA SEATTLE	27.61	0.500	2166.30E	716.63	1449.67
KIRO (190)	US WA SEATTLE	27.53	0.500	2169.20E	717.06	1452.14
KIRO (191)	US WA SEATTLE	27.45	0.500	2172.17E	717.50	1454.67
KIRO (192)	US WA SEATTLE	27.37	0.500	2175.08E	717.99	1457.09
KIRO (193)	US WA SEATTLE	27.29	0.500	2177.81E	718.40	1459.41
KIRO (194)	US WA SEATTLE	27.20	0.500	2180.55E	718.75	1461.79
KIRO (195)	US WA SEATTLE	27.14	0.500	2184.19E	719.30	1464.89
KIRO (196)	US WA SEATTLE	27.08	0.500	2187.86E	719.85	1468.01
KIRO (197)	US WA SEATTLE	27.02	0.500	2191.35E	720.38	1470.97
KIRO (198)	US WA SEATTLE	26.95	0.500	2194.64E	720.87	1473.76
KIRO (199)	US WA SEATTLE	26.88	0.500	2197.65E	721.38	1476.27
KIRO (200)	US WA SEATTLE	26.81	0.500	2200.53E	721.82	1478.71
KIRO (201)	US WA SEATTLE	26.75	0.500	2204.62E	722.44	1482.18
KIRO (202)	US WA SEATTLE	26.71	0.500	2209.30E	723.16	1486.14
KIRO (203)	US WA SEATTLE	26.66	0.500	2214.17E	723.85	1490.32
KIRO (204)	US WA SEATTLE	26.60	0.500	2218.52E	724.52	1494.00
KIRO (205)	US WA SEATTLE	26.55	0.500	2223.43E	725.28	1498.15
KIRO (206)	US WA SEATTLE	26.51	0.500	2228.58E	726.08	1502.51
KIRO (207)	US WA SEATTLE	26.46	0.500	2233.59E	726.86	1506.74
KIRO (208)	US WA SEATTLE	26.51	0.500	2247.39E	729.03	1518.36
KIRO (209)	US WA SEATTLE	26.61	0.500	2266.79E	732.13	1534.66
KIRO (210)	US WA SEATTLE	26.61	0.500	2277.82E	733.91	1543.90
KIRO (211)	US WA SEATTLE	26.60	0.500	2288.33E	735.64	1552.70
KIRO (212)	US WA SEATTLE	26.55	0.500	2296.19E	736.93	1559.26
KIRO (213)	US WA SEATTLE	26.50	0.500	2303.12E	738.14	1564.98
KIRO (214)	US WA SEATTLE	26.46	0.500	2312.45E	739.71	1572.73
KIRO (215)	US WA SEATTLE	26.40	0.500	2320.24E	741.03	1579.20
KIRO (216)	US WA SEATTLE	26.30	0.500	2324.18E	741.71	1582.48
KIRO (217)	US WA SEATTLE	26.18	0.500	2325.88E	741.93	1583.94
KIRO (218)	US WA SEATTLE	26.06	0.500	2326.54E	742.04	1584.50
KIRO (219)	US WA SEATTLE	26.11	0.500	2351.12E	746.34	1604.78
KIRO (220)	US WA SEATTLE	25.98	0.500	2350.19E	746.22	1603.96
KIRO (221)	US WA SEATTLE	25.81	0.500	2345.01E	745.30	1599.71
KIRO (222)	US WA SEATTLE	25.67	0.500	2343.03E	744.89	1598.14

KIRO (223)	US WA SEATTLE	25.62	0.500	2356.41E	747.25	1609.16
KIRO (224)	US WA SEATTLE	25.48	0.519	2353.04E	746.70	1606.34
KIRO (225)	US WA SEATTLE	25.33	0.533	2348.16E	745.83	1602.33
KIRO (226)	US WA SEATTLE	25.19	0.566	2343.77E	744.99	1598.78
KIRO (227)	US WA SEATTLE	25.05	0.623	2339.19E	744.19	1595.00
KIRO (228)	US WA SEATTLE	24.92	0.632	2334.77E	743.46	1591.30
KIRO (229)	US WA SEATTLE	24.79	0.644	2330.48E	742.72	1587.76
KIRO (230)	US WA SEATTLE	24.67	0.685	2326.30E	741.99	1584.31
KIRO (231)	US WA SEATTLE	24.55	0.739	2322.57E	741.30	1581.27
KIRO (232)	US WA SEATTLE	24.44	0.727	2318.62E	740.62	1578.00
KIRO (233)	US WA SEATTLE	24.33	0.715	2314.77E	740.01	1574.76
KIRO (234)	US WA SEATTLE	24.22	0.757	2311.04E	739.38	1571.66
KIRO (235)	US WA SEATTLE	24.11	0.920	2307.39E	738.76	1568.63
KIRO (236)	US WA SEATTLE	24.01	1.005	2304.12E	738.16	1565.96
KIRO (237)	US WA SEATTLE	23.91	0.867	2300.95E	737.63	1563.33
KIRO (238)	US WA SEATTLE	23.82	0.769	2298.32E	737.23	1561.08
KIRO (239)	US WA SEATTLE	23.72	0.731	2295.73E	736.80	1558.93
KIRO (240)	US WA SEATTLE	23.63	0.747	2293.18E	736.37	1556.80
KIRO (241)	US WA SEATTLE	23.54	0.767	2290.66E	735.96	1554.71
KIRO (242)	US WA SEATTLE	23.45	0.786	2288.48E	735.55	1552.93
KIRO (243)	US WA SEATTLE	23.36	0.802	2286.03E	735.14	1550.89
KIRO (244)	US WA SEATTLE	23.28	0.816	2283.63E	734.79	1548.83
KIRO (245)	US WA SEATTLE	23.19	0.839	2281.25E	734.40	1546.85
KIRO (246)	US WA SEATTLE	23.11	1.134	2453.45g	734.02	1719.43
KIRO (247)	US WA SEATTLE	23.03	1.053	2286.64g	733.64	1553.00
KIRO (248)	US WA SEATTLE	22.94	0.973	2274.56E	733.26	1541.30
KIRO (249)	US WA SEATTLE	22.86	0.841	2272.29E	732.89	1539.39
KIRO (250)	US WA SEATTLE	22.78	0.801	2270.03E	732.53	1537.50
KIRO (251)	US WA SEATTLE	22.71	0.756	2267.80E	732.21	1535.59
KIRO (252)	US WA SEATTLE	22.63	0.753	2265.58E	731.85	1533.73
KIRO (253)	US WA SEATTLE	22.55	0.679	2263.38E	731.50	1531.88
KIRO (254)	US WA SEATTLE	22.48	0.678	2261.19E	731.14	1530.05
KIRO (255)	US WA SEATTLE	22.40	0.676	2259.29E	730.80	1528.49
KIRO (256)	US WA SEATTLE	22.33	0.673	2257.13E	730.45	1526.68
KIRO (257)	US WA SEATTLE	22.25	0.670	2254.98E	730.11	1524.88
KIRO (258)	US WA SEATTLE	22.18	0.667	2252.84E	729.81	1523.04
KIRO (259)	US WA SEATTLE	22.11	0.659	2250.72E	729.47	1521.25
KIRO (260)	US WA SEATTLE	22.03	0.647	2248.59E	729.13	1519.46
KIRO (261)	US WA SEATTLE	21.96	0.638	2246.48E	728.79	1517.68
KIRO (262)	US WA SEATTLE	21.89	0.631	2244.62E	728.46	1516.16
KIRO (263)	US WA SEATTLE	21.82	0.624	2242.51E	728.13	1514.38
KIRO (264)	US WA SEATTLE	21.75	0.634	2240.40E	727.79	1512.61
KIRO (265)	US WA SEATTLE	21.68	0.655	2238.30E	727.50	1510.79
KIRO (266)	US WA SEATTLE	21.61	0.662	2236.19E	727.17	1509.02
KIRO (267)	US WA SEATTLE	21.54	0.616	2234.08E	726.84	1507.24
KIRO (268)	US WA SEATTLE	21.46	0.583	2232.99E	726.67	1506.33
KIRO (269)	US WA SEATTLE	21.38	0.558	2232.16E	726.50	1505.66
KIRO (270)	US WA SEATTLE	21.29	0.537	2231.08E	726.33	1504.75
KIRO (271)	US WA SEATTLE	21.21	0.515	2229.99E	726.16	1503.83
KIRO (272)	US WA SEATTLE	21.14	0.500	2228.38E	725.94	1502.44
KIRO (273)	US WA SEATTLE	21.15	0.500	2217.72E	724.30	1493.42
KIRO (274)	US WA SEATTLE	21.10	0.500	2213.86E	723.71	1490.15
KIRO (275)	US WA SEATTLE	21.06	0.500	2209.39E	723.02	1486.37
KIRO (276)	US WA SEATTLE	21.02	0.500	2204.04E	722.21	1481.83
KIRO (277)	US WA SEATTLE	20.98	0.500	2199.72E	721.55	1478.17
KIRO (278)	US WA SEATTLE	20.93	0.500	2195.95E	720.98	1474.97
KIRO (279)	US WA SEATTLE	20.89	0.500	2192.12E	720.40	1471.72
KIRO (280)	US WA SEATTLE	20.84	0.500	2188.24E	719.81	1468.42
KIRO (281)	US WA SEATTLE	20.80	0.500	2184.53E	719.22	1465.31
KIRO (282)	US WA SEATTLE	20.76	0.500	2180.56E	718.63	1461.93
KIRO (283)	US WA SEATTLE	20.71	0.500	2176.56E	718.03	1458.53
KIRO (284)	US WA SEATTLE	20.67	0.500	2172.53E	717.43	1455.10
KIRO (285)	US WA SEATTLE	20.64	0.500	2168.48E	716.86	1451.62
KIRO (286)	US WA SEATTLE	20.60	0.500	2164.41E	716.26	1448.15
KIRO (287)	US WA SEATTLE	20.56	0.500	2160.32E	715.65	1444.67
KIRO (288)	US WA SEATTLE	20.53	0.500	2156.22E	715.05	1441.18
KIRO (289)	US WA SEATTLE	20.49	0.500	2152.17E	714.45	1437.72
KIRO (290)	US WA SEATTLE	20.46	0.500	2148.11E	713.85	1434.26
KIRO (291)	US WA SEATTLE	20.42	0.500	2144.01E	713.25	1430.76
KIRO (292)	US WA SEATTLE	20.39	0.500	2139.76E	712.63	1427.13
KIRO (293)	US WA SEATTLE	20.36	0.500	2135.52E	712.01	1423.51

KIRO (294)	US WA SEATTLE	20.34	0.500	2131.29E	711.39	1419.90
KIRO (295)	US WA SEATTLE	20.31	0.500	2127.08E	710.78	1416.30
KIRO (296)	US WA SEATTLE	20.28	0.500	2122.89E	710.17	1412.72
KIRO (297)	US WA SEATTLE	20.25	0.500	2118.72E	709.57	1409.15
KIRO (298)	US WA SEATTLE	20.23	0.500	2114.78E	708.97	1405.81
KIRO (299)	US WA SEATTLE	20.20	0.500	2110.66E	708.38	1402.28
KIRO (300)	US WA SEATTLE	20.17	0.500	2106.56E	707.79	1398.78
KIRO (301)	US WA SEATTLE	20.15	0.500	2102.49E	707.20	1395.29
KIRO (302)	US WA SEATTLE	20.12	0.500	2098.44E	706.62	1391.82
KIRO (303)	US WA SEATTLE	20.09	0.500	2094.41E	706.04	1388.37
KIRO (304)	US WA SEATTLE	20.06	0.500	2090.61E	705.53	1385.08
KIRO (305)	US WA SEATTLE	20.02	0.500	2086.96E	705.01	1381.95
KIRO (306)	US WA SEATTLE	19.98	0.500	2083.26E	704.48	1378.78
KIRO (307)	US WA SEATTLE	19.95	0.500	2079.53E	703.95	1375.58
KIRO (308)	US WA SEATTLE	19.91	0.500	2075.76E	703.41	1372.36
KIRO (309)	US WA SEATTLE	19.87	0.500	2071.96E	702.87	1369.10
KIRO (310)	US WA SEATTLE	19.84	0.500	2068.14E	702.32	1365.82
KIRO (311)	US WA SEATTLE	19.80	0.500	2064.31E	701.78	1362.53
KIRO (312)	US WA SEATTLE	19.67	0.500	2062.83E	701.54	1361.29
KIRO (313)	US WA SEATTLE	19.38	0.500	2064.36E	701.78	1362.58
KIRO (314)	US WA SEATTLE	19.45	0.565	2057.62E	700.83	1356.79
KIRO (315)	US WA SEATTLE	19.54	0.603	2050.91E	699.88	1351.03
KIRO (316)	US WA SEATTLE	19.62	0.643	2044.67E	698.97	1345.70
KIRO (317)	US WA SEATTLE	19.68	0.686	2038.75E	698.16	1340.59
KIRO (318)	US WA SEATTLE	19.73	0.738	2033.24E	697.39	1335.86
KIRO (319)	US WA SEATTLE	19.76	0.807	2041.81g	696.70	1345.11
KIRO (320)	US WA SEATTLE	19.77	0.864	2183.99g	696.06	1487.93
KIRO (321)	US WA SEATTLE	19.78	0.928	2345.17g	695.43	1649.73
KIRO (322)	US WA SEATTLE	19.79	1.021	2580.41g	694.81	1885.60
KIRO (323)	US WA SEATTLE	19.80	1.112	2807.18g	694.20	2112.97
KIRO (324)	US WA SEATTLE	19.81	1.203	3035.15g	693.60	2341.54
KIRO (325)	US WA SEATTLE	19.82	1.262	3184.65g	693.00	2491.65
KIRO (326)	US WA SEATTLE	19.83	1.180	2974.70g	692.41	2282.29
KIRO (327)	US WA SEATTLE	19.83	1.091	2750.57g	691.83	2058.74
KIRO (328)	US WA SEATTLE	19.84	1.057	2662.34g	691.25	1971.08
KIRO (329)	US WA SEATTLE	19.84	1.123	2830.10g	690.69	2139.41
KIRO (330)	US WA SEATTLE	19.80	1.445	3649.50g	690.12	2959.38
KIRO (331)	US WA SEATTLE	19.77	1.373	3473.16g	689.55	2783.61
KIRO (332)	US WA SEATTLE	19.73	1.463	3707.81g	688.97	3018.84
KIRO (333)	US WA SEATTLE	19.69	1.586	4026.44g	688.37	3338.06
KIRO (334)	US WA SEATTLE	19.66	1.779	4524.80g	687.77	3837.04
KIRO (335)	US WA SEATTLE	19.62	2.902	7397.05g	687.15	6709.90
KIRO (336)	US WA SEATTLE	19.06	3.010	7895.27g	686.14	7209.13
KIRO (337)	US WA SEATTLE	18.73	2.723	7269.59g	685.15	6584.45
KIRO (338)	US WA SEATTLE	18.71	2.482	6633.05g	684.39	5948.67
KIRO (339)	US WA SEATTLE	18.71	2.308	6168.66g	683.64	5485.02
KIRO (340)	US WA SEATTLE	18.71	2.159	5768.64g	682.89	5085.75
KIRO (341)	US WA SEATTLE	17.90	1.765	4929.61g	680.86	4248.75
KIRO (342)	US WA SEATTLE	17.93	2.088	5820.99g	680.03	5140.95
KIRO (343)	US WA SEATTLE	17.97	3.169	8819.92g	679.22	8140.70
KIRO (344)	US WA SEATTLE	18.00	4.536	12601.10g	678.38	11922.71
KIRO (345)	US WA SEATTLE	18.03	5.873	16285.89g	677.58	15608.32
KIRO (346)	US WA SEATTLE	18.06	6.532	18081.45g	676.78	17404.68
KIRO (347)	US WA SEATTLE	18.10	7.413	20484.26g	675.99	19808.27
KIRO (348)	US WA SEATTLE	18.13	8.249	22752.96g	675.20	22077.76
KIRO (349)	US WA SEATTLE	18.16	4.859	13379.72g	674.41	12705.31
KIRO (350)	US WA SEATTLE	18.19	4.934	13565.06g	673.63	12891.43
KIRO (351)	US WA SEATTLE	18.22	4.839	13280.13g	672.85	12607.28
KIRO (352)	US WA SEATTLE	18.25	3.050	8356.34g	672.08	7684.26
KIRO (353)	US WA SEATTLE	18.28	2.290	6263.31g	671.31	5592.00
KIRO (354)	US WA SEATTLE	18.31	2.530	6909.88g	670.53	6239.34
KIRO (355)	US WA SEATTLE	18.34	2.971	8102.50g	669.76	7432.74
KIRO (356)	US WA SEATTLE	18.37	3.587	9764.87g	668.97	9095.90
KIRO (357)	US WA SEATTLE	18.39	3.753	10201.71g	668.20	9533.51
KIRO (358)	US WA SEATTLE	18.42	3.383	9181.16g	667.43	8513.73
KIRO (359)	US WA SEATTLE	18.45	1.939	5254.51g	666.66	4587.85

XEQZ1/O MX JA SAN JUAN DE LOS 9.34 3.466 1856.42 631.96 1224.46
 50% = 7.307, 25% = 8.787; KSAH=6.43 XEKN/A=3.47 XEAVR/A=3.26 WGN=2.71
 KDWN=2.42

KNUS	US CO DENVER	44.78	1.255	1400.67	125.79	1274.88
50% = 4.508, 25% = 5.018; KCMO=3.70 KGNC=2.57 KIRO=2.20						
KGNC	US TX AMARILLO	32.63	1.015	1554.91	193.67	1361.24
50% = 2.925, 25% = 4.184; WOR=2.48 KIRO=1.55 XERK/A=1.38 WGN=1.31 KURV=1.29						
KCMO=1.18 KNUS=1.12 XEPQ/A=1.01						
XEDE/O	MX CI SALTILLO	14.35	5.767	2009.49	542.61	1466.88
50% = 11.534, 25% = 12.424; KSAH=11.53 WGN=4.62						
XEDE/	MX CI ARTEAGA	14.29	5.789	2025.22	541.43	1483.79
50% = 11.578, 25% = 12.474; KSAH=11.58 WGN=4.64						
XENVA2/O	MX SO SAN LUIS RIO CO	137.99	70.621	2558.97	837.48	1721.49
50% = 70.621, 25% = 70.621; KDWN=70.62						
KSPN	US CA LOS ANGELES	165.92	10.495	3162.51	1291.34	1871.17
50% = 10.495, 25% = 10.495; KDWN=10.49						
XEKN/A	MX MI HUETAMO	6.37	3.239	2543.32	637.00	1906.32
50% = 6.478, 25% = 6.865; XEAVR/A=4.80 KSAH=4.35 WGN=2.27						
XEKN/O	MX MI HUETAMO	6.37	3.239	2543.32	637.00	1906.32
50% = 6.478, 25% = 6.865; XEAVR/A=4.80 KSAH=4.35 WGN=2.27						
XEKN/O	MX MI HUETAMO	6.37	3.239	2543.32	637.00	1906.32
50% = 6.478, 25% = 6.865; XEAVR/A=4.80 KSAH=4.35 WGN=2.27						
XEIW/O	MX MC URUAPAN	7.32	3.773	2577.07	646.34	1930.73
50% = 7.545, 25% = 8.153; KSAH=4.82 XEKN/A=4.11 XEAVR/A=4.11 WGN=2.34						
KDWN=2.02						
KFIA	US CA CARMICHAEL	90.73	5.526	3045.38	951.74	2093.64
50% = 8.02, 25% = 8.02; KIRO=5.81 KDWN=5.53						
WRZN	US FL HERNANDO	5.71	2.936	2573.06	245.59	2327.47
50% = 11.745, 25% = 11.745; WGN=11.74						
XEAVR/A	MX VE VERACRUZ	4.84	2.945	3039.09	565.53	2473.56
50% = 6.411, 25% = 7.326; KSAH=4.45 HRNN 3-A=3.55 XEKN/A=2.94 WGN=2.76						
XEZX/A=2.23						
XEAVR/O	MX VE EL COYOL	4.84	2.945	3039.09	565.53	2473.56
50% = 6.411, 25% = 7.326; KSAH=4.45 HRNN 3-A=3.55 XEKN/A=2.94 WGN=2.76						
XEZX/A=2.23						
XEAVR/O	MX VC ALVARADO	4.79	2.926	3052.47	565.49	2486.98
50% = 6.377, 25% = 7.296; KSAH=4.37 HRNN 3-A=3.60 XEKN/A=2.93 WGN=2.74						
XEZX/A=2.25						

Figure 16- PROPOSED NIGHTTIME RADIATION LIMITS REPORT

Night Radiation Limit Report for KDWN

Frequency: 720 kHz

Latitude: 36-16-04 N Longitude: 115-02-42 W

Radiation limits above 1000.0 mV/m@1km are not shown.

	Ct	St	City	Azimuth (Deg)	Min Theta (Deg)	Max Theta (Deg)	Limit (mV/m @ 1km)
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12:							
NEW MEDICINE HAT/	CA	AB	MEDICINE HAT	11.6	3.5	3.5	681.8
49:							
WGN (320)	US	IL	CHICAGO	49.5	0.0	1.8	270.7
WGN (321)	US	IL	CHICAGO	49.4	0.0	1.7	274.9
WGN (322)	US	IL	CHICAGO	49.3	0.0	1.7	279.2
WGN (323)	US	IL	CHICAGO	49.3	0.0	1.6	283.6
WGN (324)	US	IL	CHICAGO	49.3	0.0	1.5	288.0
WGN (325)	US	IL	CHICAGO	49.2	0.0	1.5	292.4
WGN (326)	US	IL	CHICAGO	49.2	0.0	1.4	297.0
WGN (327)	US	IL	CHICAGO	49.2	0.0	1.3	301.5
WGN (328)	US	IL	CHICAGO	49.1	0.0	1.3	306.1
WGN (329)	US	IL	CHICAGO	49.1	0.0	1.2	310.8
WGN (330)	US	IL	CHICAGO	49.1	0.0	1.2	315.4
WGN (331)	US	IL	CHICAGO	49.1	0.0	1.1	320.2
WGN (332)	US	IL	CHICAGO	49.1	0.0	1.0	325.0
WGN (333)	US	IL	CHICAGO	49.1	0.0	1.0	329.8
WGN (334)	US	IL	CHICAGO	49.1	0.0	0.9	334.6
WGN (335)	US	IL	CHICAGO	49.1	0.0	0.9	339.5
WGN (336)	US	IL	CHICAGO	49.1	0.0	0.8	344.5
WGN (337)	US	IL	CHICAGO	49.2	0.0	0.7	349.4
WGN (338)	US	IL	CHICAGO	49.2	0.0	0.7	354.4
WGN (339)	US	IL	CHICAGO	49.2	0.0	0.6	359.5
WGN (340)	US	IL	CHICAGO	49.2	0.0	0.6	364.6
WGN (341)	US	IL	CHICAGO	49.3	0.0	0.5	369.7
WGN (342)	US	IL	CHICAGO	49.3	0.0	0.5	374.8
WGN (343)	US	IL	CHICAGO	49.4	0.0	0.4	380.0
WGN (344)	US	IL	CHICAGO	49.4	0.0	0.3	385.2
WGN (345)	US	IL	CHICAGO	49.5	0.0	0.3	390.5
50:							
WGN (310)	US	IL	CHICAGO	50.5	0.0	2.5	231.3
WGN (311)	US	IL	CHICAGO	50.3	0.0	2.4	234.9
WGN (312)	US	IL	CHICAGO	50.2	0.0	2.3	238.7
WGN (313)	US	IL	CHICAGO	50.1	0.0	2.3	242.5
WGN (314)	US	IL	CHICAGO	50.0	0.0	2.2	246.3
WGN (315)	US	IL	CHICAGO	49.9	0.0	2.1	250.3
WGN (316)	US	IL	CHICAGO	49.8	0.0	2.1	254.2
WGN (317)	US	IL	CHICAGO	49.7	0.0	2.0	258.3
WGN (318)	US	IL	CHICAGO	49.6	0.0	1.9	262.4

WGN (319)	US IL CHICAGO	49.5	0.0	1.9	266.5
WGN (346)	US IL CHICAGO	49.5	0.0	0.2	395.7
WGN (347)	US IL CHICAGO	49.6	0.0	0.2	400.9
WGN (348)	US IL CHICAGO	49.7	0.0	0.1	407.3
WGN (349)	US IL CHICAGO	49.8	0.0	0.1	413.2
WGN (350)	US IL CHICAGO	49.9	0.0	0.0	421.0
WGN (351)	US IL CHICAGO	50.0	0.0	0.0	428.5
WGN (352)	US IL CHICAGO	50.2	0.0	0.0	435.5
WGN (353)	US IL CHICAGO	50.1	0.0	0.0	436.5
WGN (354)	US IL CHICAGO	50.1	0.0	0.0	438.4
WGN (355)	US IL CHICAGO	50.2	0.0	0.0	443.8
WGN (356)	US IL CHICAGO	50.3	0.0	0.0	449.0
WGN (357)	US IL CHICAGO	50.3	0.0	0.0	454.4
WGN (358)	US IL CHICAGO	50.4	0.0	0.0	459.8
51:					
WGN (304)	US IL CHICAGO	51.4	0.1	2.9	210.5
WGN (305)	US IL CHICAGO	51.2	0.0	2.8	213.7
WGN (306)	US IL CHICAGO	51.0	0.0	2.7	217.1
WGN (307)	US IL CHICAGO	50.9	0.0	2.7	220.6
WGN (308)	US IL CHICAGO	50.7	0.0	2.6	224.1
WGN (309)	US IL CHICAGO	50.6	0.0	2.5	227.6
WGN (359)	US IL CHICAGO	50.5	0.0	0.0	465.2
WGN (0)	US IL CHICAGO	50.6	0.0	0.0	470.6
WGN (1)	US IL CHICAGO	50.8	0.0	0.0	477.4
WGN (2)	US IL CHICAGO	51.0	0.0	0.0	488.4
WGN (3)	US IL CHICAGO	51.3	0.0	0.0	498.0
WGN (4)	US IL CHICAGO	51.5	0.0	0.0	508.5
52:					
WGN (299)	US IL CHICAGO	52.4	0.3	3.2	194.8
WGN (300)	US IL CHICAGO	52.2	0.3	3.2	197.8
WGN (301)	US IL CHICAGO	52.0	0.2	3.1	200.8
WGN (302)	US IL CHICAGO	51.8	0.2	3.0	204.0
WGN (303)	US IL CHICAGO	51.6	0.1	3.0	207.1
WGN (5)	US IL CHICAGO	51.7	0.0	0.0	517.5
WGN (6)	US IL CHICAGO	51.9	0.0	0.0	527.4
WGN (7)	US IL CHICAGO	52.1	0.0	0.0	537.1
WGN (8)	US IL CHICAGO	52.3	0.0	0.0	545.2
53:					
WGN (295)	US IL CHICAGO	53.4	0.5	3.5	183.4
WGN (296)	US IL CHICAGO	53.1	0.5	3.4	186.1
WGN (297)	US IL CHICAGO	52.9	0.4	3.4	189.0
WGN (298)	US IL CHICAGO	52.7	0.4	3.3	191.8
WGN (9)	US IL CHICAGO	52.5	0.0	0.0	554.3
WGN (10)	US IL CHICAGO	52.7	0.0	0.0	563.1
WGN (11)	US IL CHICAGO	52.9	0.0	0.0	571.6
WGN (12)	US IL CHICAGO	53.1	0.0	0.0	579.8
WGN (13)	US IL CHICAGO	53.3	0.0	0.0	587.7
WGN (14)	US IL CHICAGO	53.5	0.0	0.0	595.3
54:					
WGN (292)	US IL CHICAGO	54.2	0.7	3.7	175.5
WGN (293)	US IL CHICAGO	53.9	0.6	3.7	178.0
WGN (294)	US IL CHICAGO	53.7	0.6	3.6	180.6
WGN (15)	US IL CHICAGO	53.7	0.0	0.0	602.6
WGN (16)	US IL CHICAGO	53.9	0.0	0.0	611.1
WGN (17)	US IL CHICAGO	54.0	0.0	0.0	617.8

	WGN (18)	US IL CHICAGO	54.2	0.0	0.0	624.1
	WGN (19)	US IL CHICAGO	54.4	0.0	0.0	631.8
55:						
	WGN (288)	US IL CHICAGO	55.5	0.9	4.0	165.9
	WGN (289)	US IL CHICAGO	55.1	0.8	3.9	168.1
	WGN (290)	US IL CHICAGO	54.8	0.8	3.9	170.6
	WGN (291)	US IL CHICAGO	54.5	0.7	3.8	172.9
	WGN (20)	US IL CHICAGO	54.5	0.0	0.0	637.5
	WGN (21)	US IL CHICAGO	54.7	0.0	0.0	644.6
	WGN (22)	US IL CHICAGO	54.9	0.0	0.0	649.7
	WGN (23)	US IL CHICAGO	55.0	0.0	0.0	656.1
	WGN (24)	US IL CHICAGO	55.2	0.0	0.0	662.1
56:						
	WGN (286)	US IL CHICAGO	56.2	1.0	4.1	161.4
	WGN (287)	US IL CHICAGO	55.8	0.9	4.0	163.6
	WGN (25)	US IL CHICAGO	55.5	0.0	0.0	677.6
	WGN (26)	US IL CHICAGO	55.8	0.0	0.0	690.4
	WGN (30)	US IL CHICAGO	56.2	0.0	0.0	697.9
	WGN (27)	US IL CHICAGO	56.0	0.0	0.0	699.0
	WGN (29)	US IL CHICAGO	56.2	0.0	0.0	703.4
	WGN (28)	US IL CHICAGO	56.2	0.0	0.0	705.3
	WGN (31)	US IL CHICAGO	56.5	0.0	0.0	708.9
57:						
	WGN (283)	US IL CHICAGO	57.3	1.1	4.3	155.4
	WGN (284)	US IL CHICAGO	56.9	1.1	4.2	157.3
	WGN (285)	US IL CHICAGO	56.5	1.0	4.2	159.4
	WGN (32)	US IL CHICAGO	56.8	0.0	0.0	722.3
	WGN (33)	US IL CHICAGO	57.1	0.0	0.0	732.5
	WGN (36)	US IL CHICAGO	57.4	0.0	0.0	735.7
	WGN (37)	US IL CHICAGO	57.5	0.0	0.0	738.2
	WGN (35)	US IL CHICAGO	57.3	0.0	0.0	738.9
	WGN (34)	US IL CHICAGO	57.3	0.0	0.0	739.2
58:						
	WGN (280)	US IL CHICAGO	58.4	1.2	4.5	149.7
	WGN (281)	US IL CHICAGO	58.0	1.2	4.4	151.6
	WGN (282)	US IL CHICAGO	57.6	1.1	4.4	153.4
	WGN (38)	US IL CHICAGO	57.7	0.0	0.0	742.3
	WGN (39)	US IL CHICAGO	58.1	0.0	0.0	765.0
	WGN (40)	US IL CHICAGO	58.3	0.0	0.0	766.4
	WGN (41)	US IL CHICAGO	58.4	0.0	0.0	769.5
59:						
	WGN (278)	US IL CHICAGO	59.3	1.3	4.6	146.3
	WGN (279)	US IL CHICAGO	58.9	1.3	4.5	148.1
	WGN (42)	US IL CHICAGO	58.6	0.0	0.0	772.2
	WGN (43)	US IL CHICAGO	58.7	0.0	0.0	772.5
	WGN (44)	US IL CHICAGO	58.8	0.0	0.0	774.5
	WGN (45)	US IL CHICAGO	59.0	0.0	0.0	776.1
	WGN (46)	US IL CHICAGO	59.1	0.0	0.0	777.3
	WGN (47)	US IL CHICAGO	59.3	0.0	0.0	778.1
	WGN (48)	US IL CHICAGO	59.4	0.0	0.0	778.6
60:						
	WGN (276)	US IL CHICAGO	60.2	1.4	4.7	143.4
	WGN (277)	US IL CHICAGO	59.7	1.3	4.6	144.8
	WGN (49)	US IL CHICAGO	59.6	0.0	0.0	784.4
	WGN (50)	US IL CHICAGO	59.8	0.0	0.0	790.7

	WGN (51)	US IL CHICAGO	60.1	0.0	0.0	796.6
	WGN (52)	US IL CHICAGO	60.3	0.0	0.0	804.2
61:						
	WGN (274)	US IL CHICAGO	61.1	1.4	4.8	140.5
	WGN (275)	US IL CHICAGO	60.6	1.4	4.7	141.8
	WGN (53)	US IL CHICAGO	60.5	0.0	0.0	809.1
	WGN (54)	US IL CHICAGO	60.7	0.0	0.0	815.8
	WGN (55)	US IL CHICAGO	60.9	0.0	0.0	822.1
	WGN (56)	US IL CHICAGO	61.1	0.0	0.0	825.6
	WGN (57)	US IL CHICAGO	61.4	0.0	0.0	830.9
62:						
	WGN (272)	US IL CHICAGO	62.0	1.5	4.8	137.9
	WGN (273)	US IL CHICAGO	61.5	1.5	4.8	139.1
	WGN (58)	US IL CHICAGO	61.6	0.0	0.0	835.9
	WGN (59)	US IL CHICAGO	61.8	0.0	0.0	840.4
	WGN (60)	US IL CHICAGO	62.0	0.0	0.0	844.6
	WGN (61)	US IL CHICAGO	62.2	0.0	0.0	848.3
	WGN (62)	US IL CHICAGO	62.4	0.0	0.0	851.5
63:						
	WGN (270)	US IL CHICAGO	63.0	1.6	4.9	135.6
	WGN (271)	US IL CHICAGO	62.5	1.5	4.9	136.7
	WGN (63)	US IL CHICAGO	62.5	0.0	0.0	854.4
	WGN (64)	US IL CHICAGO	62.7	0.0	0.0	856.9
	WGN (65)	US IL CHICAGO	62.9	0.0	0.0	858.9
	WGN (66)	US IL CHICAGO	63.1	0.0	0.0	863.1
	WGN (67)	US IL CHICAGO	63.3	0.0	0.0	864.4
	WGN (68)	US IL CHICAGO	63.5	0.0	0.0	865.3
64:						
	WGN (268)	US IL CHICAGO	64.0	1.6	5.0	133.5
	WGN (269)	US IL CHICAGO	63.5	1.6	5.0	134.6
	WGN (76)	US IL CHICAGO	64.4	0.0	0.0	695.4
	WGN (75)	US IL CHICAGO	64.2	0.0	0.0	696.2
	WGN (69)	US IL CHICAGO	63.7	0.0	0.0	871.8
	WGN (70)	US IL CHICAGO	63.9	0.0	0.0	875.7
	WGN (71)	US IL CHICAGO	64.1	0.0	0.0	881.7
	WGN (72)	US IL CHICAGO	64.3	0.0	0.0	884.3
	WGN (73)	US IL CHICAGO	64.5	0.0	0.0	889.1
65:						
	WGN (266)	US IL CHICAGO	65.0	1.7	5.0	131.8
	WGN (267)	US IL CHICAGO	64.5	1.6	5.0	132.7
	WGN (80)	US IL CHICAGO	65.4	0.0	0.0	689.5
	WGN (79)	US IL CHICAGO	65.2	0.0	0.0	691.3
	WGN (78)	US IL CHICAGO	64.9	0.0	0.0	692.5
	WGN (77)	US IL CHICAGO	64.7	0.0	0.0	694.0
	WGN (74)	US IL CHICAGO	64.7	0.0	0.0	890.5
66:						
	WGN (264)	US IL CHICAGO	66.1	1.7	5.1	130.4
	WGN (265)	US IL CHICAGO	65.6	1.7	5.1	131.0
	WGN (84)	US IL CHICAGO	66.4	0.0	0.0	682.3
	WGN (83)	US IL CHICAGO	66.2	0.0	0.0	684.5
	WGN (82)	US IL CHICAGO	65.9	0.0	0.0	686.1
	WGN (81)	US IL CHICAGO	65.7	0.0	0.0	688.1
67:						
	WGN (262)	US IL CHICAGO	67.2	1.7	5.1	129.1
	WGN (263)	US IL CHICAGO	66.6	1.7	5.1	129.6

	WGN (88)	US IL CHICAGO	67.4	0.0	0.0	673.3
	WGN (87)	US IL CHICAGO	67.2	0.0	0.0	675.5
	WGN (86)	US IL CHICAGO	66.9	0.0	0.0	678.0
	WGN (85)	US IL CHICAGO	66.7	0.0	0.0	680.5
68:						
	WGN (260)	US IL CHICAGO	68.3	1.7	5.1	128.1
	WGN (261)	US IL CHICAGO	67.7	1.7	5.1	128.6
	WGN (92)	US IL CHICAGO	68.5	0.0	0.0	662.7
	WGN (91)	US IL CHICAGO	68.2	0.0	0.0	665.3
	WGN (90)	US IL CHICAGO	68.0	0.0	0.0	668.2
	WGN (89)	US IL CHICAGO	67.7	0.0	0.0	670.6
69:						
	WGN (258)	US IL CHICAGO	69.4	1.7	5.2	127.4
	WGN (259)	US IL CHICAGO	68.8	1.7	5.1	127.8
	WGN (95)	US IL CHICAGO	69.3	0.0	0.0	653.6
	WGN (94)	US IL CHICAGO	69.0	0.0	0.0	656.5
	WGN (93)	US IL CHICAGO	68.8	0.0	0.0	659.6
70:						
	WGN (256)	US IL CHICAGO	70.5	1.7	5.1	126.9
	WGN (257)	US IL CHICAGO	69.9	1.7	5.1	127.2
	WGN (99)	US IL CHICAGO	70.3	0.0	0.0	640.1
	WGN (98)	US IL CHICAGO	70.1	0.0	0.0	643.7
	WGN (97)	US IL CHICAGO	69.8	0.0	0.0	647.2
	WGN (96)	US IL CHICAGO	69.5	0.0	0.0	650.3
71:						
	WGN (255)	US IL CHICAGO	71.0	1.7	5.1	126.8
	WGN (103)	US IL CHICAGO	71.4	0.0	0.0	625.9
	WGN (102)	US IL CHICAGO	71.2	0.0	0.0	629.8
	WGN (101)	US IL CHICAGO	70.9	0.0	0.0	633.2
	WGN (100)	US IL CHICAGO	70.6	0.0	0.0	636.9
72:						
	WGN (253)	US IL CHICAGO	72.1	1.7	5.1	126.7
	WGN (254)	US IL CHICAGO	71.6	1.7	5.1	126.8
	WGN (106)	US IL CHICAGO	72.2	0.0	0.0	614.3
	WGN (105)	US IL CHICAGO	72.0	0.0	0.0	618.4
	WGN (104)	US IL CHICAGO	71.7	0.0	0.0	622.3
73:						
	WGN (252)	US IL CHICAGO	72.7	1.7	5.1	126.9
	WGN (251)	US IL CHICAGO	73.2	1.7	5.1	127.1
	WGN (110)	US IL CHICAGO	73.3	0.0	0.0	598.3
	WGN (109)	US IL CHICAGO	73.1	0.0	0.0	602.6
	WGN (108)	US IL CHICAGO	72.8	0.0	0.0	606.4
	WGN (107)	US IL CHICAGO	72.5	0.0	0.0	610.6
74:						
	WGN (250)	US IL CHICAGO	73.8	1.7	5.1	127.2
	WGN (249)	US IL CHICAGO	74.3	1.6	5.0	127.5
	WGN (114)	US IL CHICAGO	74.4	0.0	0.0	581.5
	WGN (113)	US IL CHICAGO	74.1	0.0	0.0	585.6
	WGN (112)	US IL CHICAGO	73.9	0.0	0.0	590.0
	WGN (111)	US IL CHICAGO	73.6	0.0	0.0	594.0
75:						
	WGN (248)	US IL CHICAGO	74.9	1.6	5.0	127.9
	WGN (247)	US IL CHICAGO	75.4	1.6	5.0	128.2
	WGN (117)	US IL CHICAGO	75.2	0.0	0.0	568.3
	WGN (116)	US IL CHICAGO	75.0	0.0	0.0	572.6

WGN (115)	US IL CHICAGO	74.7	0.0	0.0	577.1
76:					
WGN (246)	US IL CHICAGO	75.9	1.6	4.9	128.7
WGN (245)	US IL CHICAGO	76.5	1.5	4.9	129.3
WGN (121)	US IL CHICAGO	76.3	0.0	0.0	550.2
WGN (120)	US IL CHICAGO	76.1	0.0	0.0	554.8
WGN (119)	US IL CHICAGO	75.8	0.0	0.0	559.2
WGN (118)	US IL CHICAGO	75.5	0.0	0.0	563.8
77:					
WGN (244)	US IL CHICAGO	77.0	1.5	4.8	129.8
WGN (243)	US IL CHICAGO	77.5	1.5	4.8	130.5
WGN (125)	US IL CHICAGO	77.4	0.0	0.0	531.7
WGN (124)	US IL CHICAGO	77.1	0.0	0.0	536.4
WGN (123)	US IL CHICAGO	76.9	0.0	0.0	541.1
WGN (122)	US IL CHICAGO	76.6	0.0	0.0	545.5
78:					
WGN (242)	US IL CHICAGO	78.0	1.4	4.8	131.3
WGN (129)	US IL CHICAGO	78.5	0.0	0.0	513.1
WGN (128)	US IL CHICAGO	78.2	0.0	0.0	517.7
WGN (127)	US IL CHICAGO	77.9	0.0	0.0	522.4
WGN (126)	US IL CHICAGO	77.7	0.0	0.0	527.2
79:					
WGN (241)	US IL CHICAGO	78.5	1.4	4.7	132.0
WGN (240)	US IL CHICAGO	79.0	1.4	4.7	132.9
WGN (239)	US IL CHICAGO	79.5	1.3	4.6	133.8
WGN (132)	US IL CHICAGO	79.3	0.0	0.0	499.0
WGN (131)	US IL CHICAGO	79.0	0.0	0.0	503.6
WGN (130)	US IL CHICAGO	78.8	0.0	0.0	508.4
80:					
WGN (238)	US IL CHICAGO	80.0	1.3	4.5	134.7
WGN (237)	US IL CHICAGO	80.4	1.2	4.5	135.8
WGN (136)	US IL CHICAGO	80.3	0.0	0.0	480.0
WGN (135)	US IL CHICAGO	80.1	0.0	0.0	484.8
WGN (134)	US IL CHICAGO	79.8	0.0	0.0	489.4
WGN (133)	US IL CHICAGO	79.5	0.0	0.0	494.2
81:					
WGN (236)	US IL CHICAGO	80.9	1.2	4.4	136.9
WGN (235)	US IL CHICAGO	81.3	1.1	4.4	138.1
WGN (140)	US IL CHICAGO	81.3	0.0	0.0	460.9
WGN (139)	US IL CHICAGO	81.1	0.0	0.0	465.7
WGN (138)	US IL CHICAGO	80.8	0.0	0.0	470.4
WGN (137)	US IL CHICAGO	80.6	0.0	0.0	475.2
82:					
WGN (234)	US IL CHICAGO	81.7	1.1	4.3	139.2
WGN (233)	US IL CHICAGO	82.2	1.0	4.2	140.6
WGN (144)	US IL CHICAGO	82.3	0.0	0.0	442.0
WGN (143)	US IL CHICAGO	82.1	0.0	0.0	446.8
WGN (142)	US IL CHICAGO	81.8	0.0	0.0	451.4
WGN (141)	US IL CHICAGO	81.6	0.0	0.0	456.2
83:					
WGN (232)	US IL CHICAGO	82.6	1.0	4.1	141.9
WGN (231)	US IL CHICAGO	83.0	0.9	4.1	143.4
WGN (230)	US IL CHICAGO	83.4	0.9	4.0	144.7
WGN (148)	US IL CHICAGO	83.3	0.0	0.0	423.2
WGN (147)	US IL CHICAGO	83.1	0.0	0.0	427.9

	WGN (146)	US IL CHICAGO	82.8	0.0	0.0	432.6
	WGN (145)	US IL CHICAGO	82.6	0.0	0.0	437.2
84:						
	WGN (229)	US IL CHICAGO	83.8	0.8	3.9	146.3
	WGN (228)	US IL CHICAGO	84.1	0.8	3.9	147.9
	WGN (227)	US IL CHICAGO	84.5	0.7	3.8	149.5
	WGN (153)	US IL CHICAGO	84.5	0.0	0.0	400.0
	WGN (152)	US IL CHICAGO	84.2	0.0	0.0	404.6
	WGN (151)	US IL CHICAGO	84.0	0.0	0.0	409.3
	WGN (150)	US IL CHICAGO	83.8	0.0	0.0	413.8
	WGN (149)	US IL CHICAGO	83.5	0.0	0.0	418.5
85:						
	WGN (226)	US IL CHICAGO	84.8	0.7	3.7	151.2
	WGN (225)	US IL CHICAGO	85.2	0.6	3.6	153.0
	WGN (224)	US IL CHICAGO	85.5	0.5	3.5	154.8
	WGN (157)	US IL CHICAGO	85.3	0.0	0.0	381.7
	WGN (156)	US IL CHICAGO	85.1	0.0	0.0	386.3
	WGN (155)	US IL CHICAGO	84.9	0.0	0.0	390.8
	WGN (154)	US IL CHICAGO	84.7	0.0	0.0	395.4
86:						
	WGN (223)	US IL CHICAGO	85.8	0.5	3.5	156.7
	WGN (222)	US IL CHICAGO	86.1	0.4	3.4	158.6
	WGN (221)	US IL CHICAGO	86.4	0.4	3.3	160.6
	WGN (162)	US IL CHICAGO	86.3	0.0	0.0	359.4
	WGN (161)	US IL CHICAGO	86.1	0.0	0.0	363.7
	WGN (160)	US IL CHICAGO	85.9	0.0	0.0	368.2
	WGN (159)	US IL CHICAGO	85.7	0.0	0.0	372.7
	WGN (158)	US IL CHICAGO	85.5	0.0	0.0	377.2
87:						
	WGN (220)	US IL CHICAGO	86.6	0.3	3.2	162.6
	WGN (219)	US IL CHICAGO	86.9	0.2	3.1	164.8
	WGN (218)	US IL CHICAGO	87.1	0.2	3.0	166.9
	WGN (217)	US IL CHICAGO	87.4	0.1	3.0	169.1
	WGN (168)	US IL CHICAGO	87.4	0.0	0.0	333.3
	WGN (167)	US IL CHICAGO	87.2	0.0	0.0	337.6
	WGN (166)	US IL CHICAGO	87.1	0.0	0.0	341.9
	WGN (165)	US IL CHICAGO	86.9	0.0	0.0	346.2
	WGN (164)	US IL CHICAGO	86.7	0.0	0.0	350.6
	WGN (163)	US IL CHICAGO	86.5	0.0	0.0	355.0
88:						
	WGN (216)	US IL CHICAGO	87.6	0.0	2.9	171.3
	WGN (215)	US IL CHICAGO	87.8	0.0	2.8	173.7
	WGN (214)	US IL CHICAGO	88.0	0.0	2.7	176.0
	WGN (213)	US IL CHICAGO	88.2	0.0	2.6	178.5
	WGN (212)	US IL CHICAGO	88.4	0.0	2.5	181.0
	WGN (175)	US IL CHICAGO	88.5	0.0	0.0	304.2
	WGN (174)	US IL CHICAGO	88.4	0.0	0.0	308.3
	WGN (173)	US IL CHICAGO	88.2	0.0	0.0	312.4
	WGN (172)	US IL CHICAGO	88.1	0.0	0.0	316.5
	WGN (171)	US IL CHICAGO	87.9	0.0	0.0	320.7
	WGN (170)	US IL CHICAGO	87.7	0.0	0.0	324.8
	WGN (169)	US IL CHICAGO	87.6	0.0	0.0	329.0
89:						
	WGN (211)	US IL CHICAGO	88.6	0.0	2.4	183.4
	WGN (210)	US IL CHICAGO	88.8	0.0	2.3	186.0

WGN (209)	US IL CHICAGO	88.9	0.0	2.3	188.6
WGN (208)	US IL CHICAGO	89.0	0.0	2.2	191.3
WGN (207)	US IL CHICAGO	89.2	0.0	2.1	194.0
WGN (206)	US IL CHICAGO	89.3	0.0	2.0	196.8
WGN (205)	US IL CHICAGO	89.4	0.0	1.9	199.6
WGN (204)	US IL CHICAGO	89.5	0.0	1.8	202.5
WGN (184)	US IL CHICAGO	89.4	0.0	0.2	269.1
WGN (183)	US IL CHICAGO	89.4	0.0	0.2	272.9
WGN (182)	US IL CHICAGO	89.3	0.0	0.1	276.7
WGN (181)	US IL CHICAGO	89.2	0.0	0.0	280.5
WGN (180)	US IL CHICAGO	89.1	0.0	0.0	284.4
WGN (179)	US IL CHICAGO	89.0	0.0	0.0	288.3
WGN (178)	US IL CHICAGO	88.9	0.0	0.0	292.2
WGN (177)	US IL CHICAGO	88.7	0.0	0.0	296.2
WGN (176)	US IL CHICAGO	88.6	0.0	0.0	300.2
90:					
WGN (203)	US IL CHICAGO	89.5	0.0	1.7	205.4
WGN (202)	US IL CHICAGO	89.6	0.0	1.7	208.4
WGN (201)	US IL CHICAGO	89.7	0.0	1.6	211.4
WGN (200)	US IL CHICAGO	89.7	0.0	1.5	214.4
WGN (199)	US IL CHICAGO	89.8	0.0	1.4	217.5
WGN (198)	US IL CHICAGO	89.8	0.0	1.3	220.7
WGN (197)	US IL CHICAGO	89.9	0.0	1.2	223.9
WGN (196)	US IL CHICAGO	89.9	0.0	1.2	227.1
WGN (195)	US IL CHICAGO	89.9	0.0	1.1	230.4
WGN (194)	US IL CHICAGO	89.9	0.0	1.0	233.7
WGN (193)	US IL CHICAGO	89.9	0.0	0.9	237.1
WGN (192)	US IL CHICAGO	89.9	0.0	0.8	240.5
WGN (191)	US IL CHICAGO	89.8	0.0	0.8	243.9
WGN (190)	US IL CHICAGO	89.8	0.0	0.7	247.4
WGN (189)	US IL CHICAGO	89.8	0.0	0.6	250.9
WGN (188)	US IL CHICAGO	89.7	0.0	0.5	254.5
WGN (187)	US IL CHICAGO	89.7	0.0	0.4	258.1
WGN (186)	US IL CHICAGO	89.6	0.0	0.4	261.7
WGN (185)	US IL CHICAGO	89.5	0.0	0.3	265.4
111:					
KSAH	US TX UNIVERSAL CITY	110.7	0.8	3.9	748.6
120:					
XENVA2/O	MX CH CD.JUAREZ	120.1	9.5	9.5	477.1
132:					
KBMB	US AZ BLACK CANYON CI	131.9	21.1	32.9	883.2

Figure 17- CLASS A SKYWAVE ANALYSIS- WGN

Licensed Vs Proposed KDWN Skywave Protection, WGN 720kHz

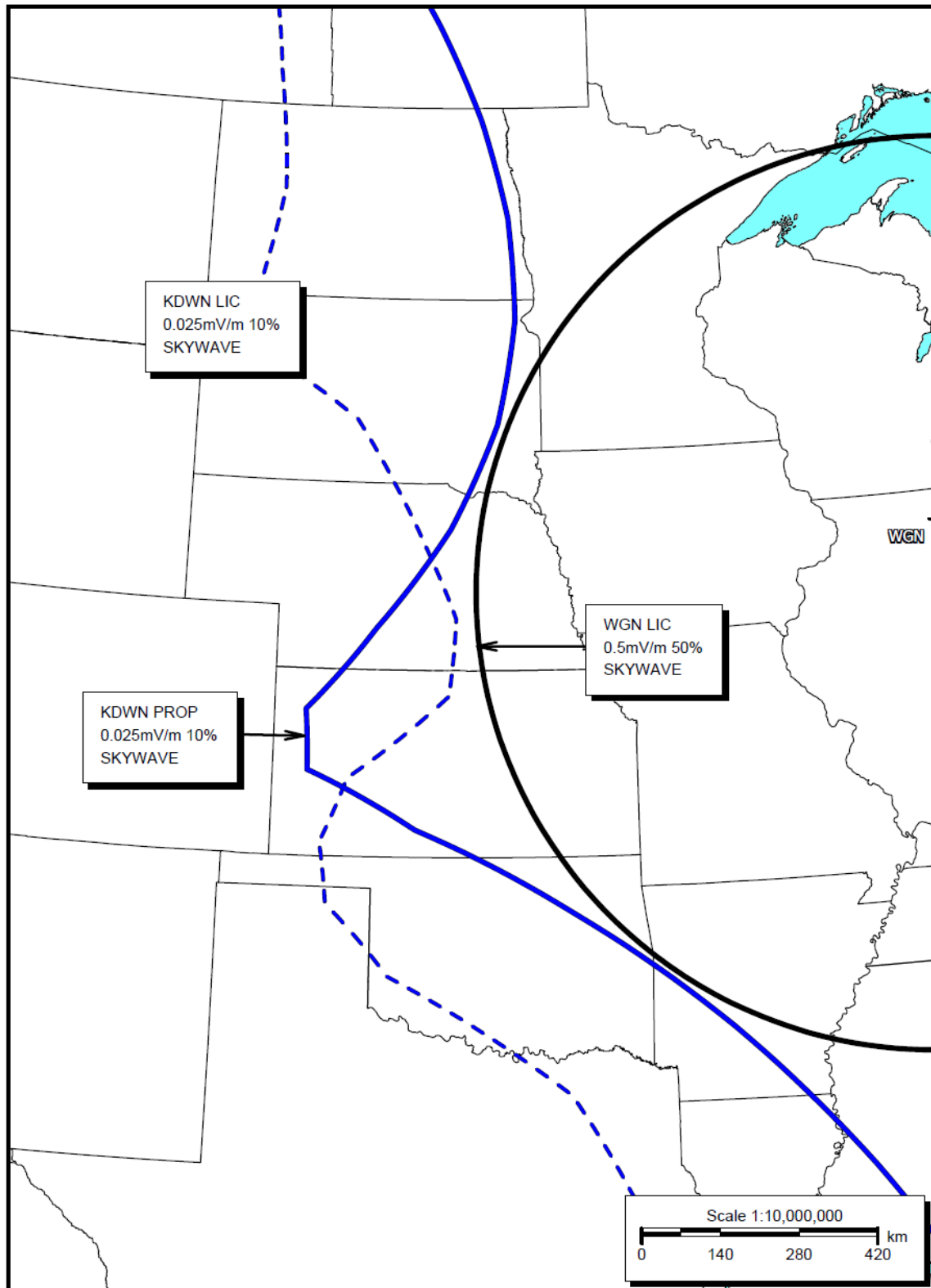


Figure 18- CLASS A SKYWAVE ANALYSIS- KOTZ

Licensed Vs Proposed KDWN Skywave Protection, KOTZ 720kHz

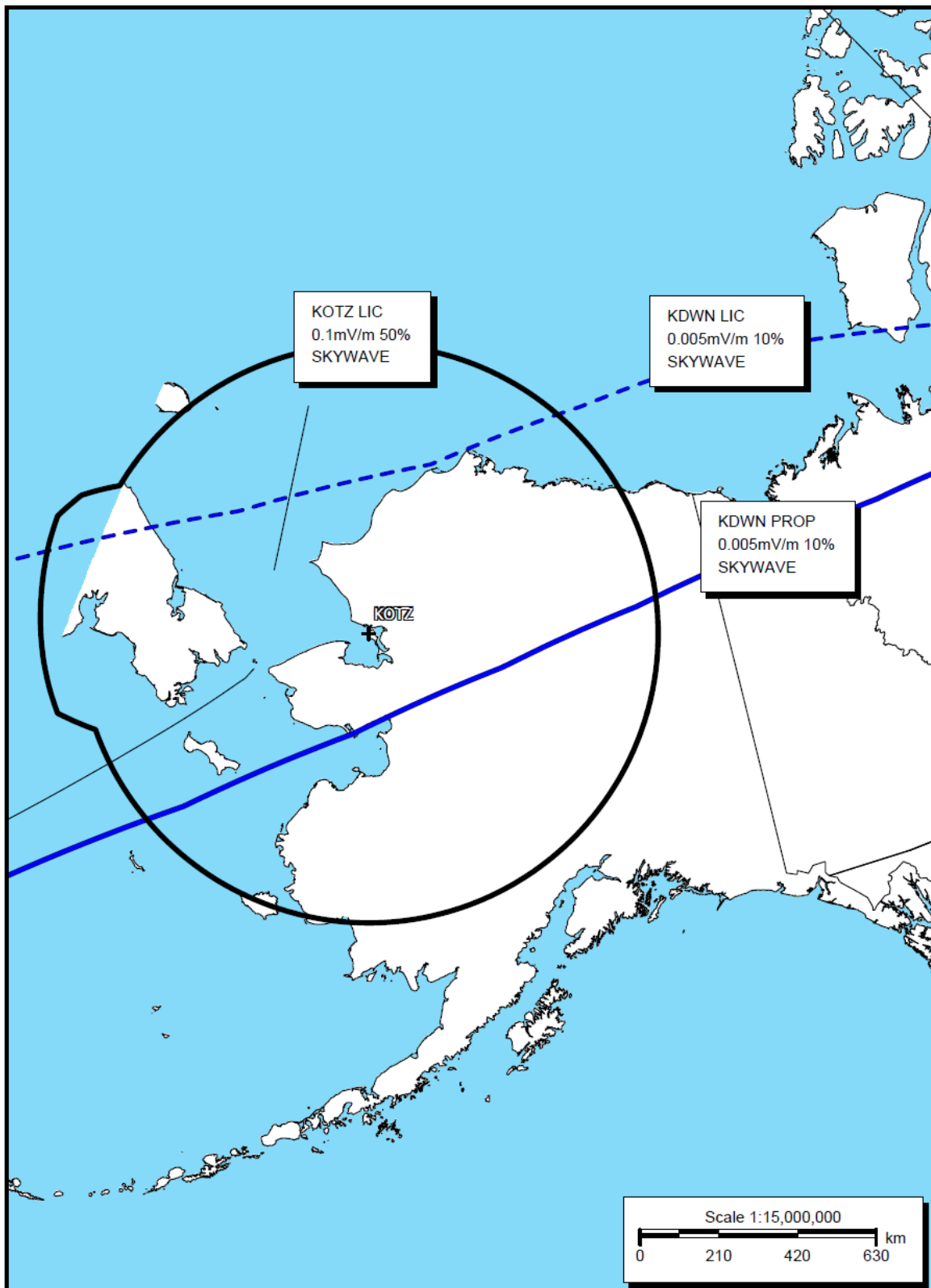


Figure 19- SITE SURVEY

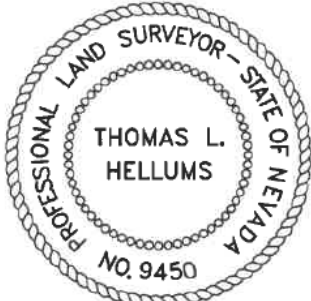
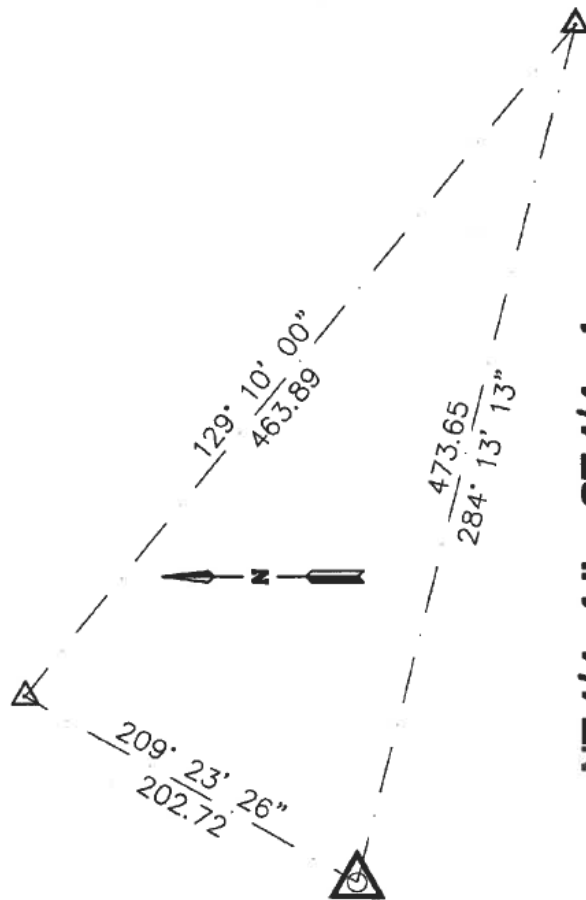
<h1 style="margin: 0;">EXHIBIT "A"</h1> <h2 style="margin: 0;">KXST RADIO</h2> <h3 style="margin: 0;">NWC of SLOAN LANE & EL CAMPO GRANDE AVENUE</h3> <p style="margin: 0; display: flex; justify-content: space-between;">CITY OF NORTH LAS VEGAS, NEVADAAPN: 123-28-701-006</p> <h3 style="margin: 0;">BASIS OF BEARINGS</h3> <hr/> <p>NORTH 88°01'19" EAST BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 28, TOWNSHIP 19 SOUTH, RANGE 62 EAST, M.D.M. AS SHOWN AS BEING NORTH 88°01'18" EAST ON THAT CERTAIN RECORD OF SURVEY FILE 101, PAGE 69 AND BEING THE PROPOSED CENTERLINE OF ANN ROAD OF CLARK COUNTY, NEVADA OFFICIAL RECORDS.</p> <p>UTILIZING THE TRIMBLE PIVOT WEB GPS NETWORK AS ADMINSTRATED BY THE UTAH GIS DEPARTMENT, BEING A LOCAL VIRTUAL REFERENCE SYSTEM OF 70+ CONTINUOUSLY OPERATING BASE STATIONS ACROSS THE STATE OF UTAH AND PORTIONS OF SOUTHERN NEVADA. USING DIAMOND BACK WEST LAS VEGAS AND MONSEN LAS VEGAS AS THE PRIMARY CONTROLLING BASE STATIONS FOR THIS PROJECT AND SURVEYED BY GPS-RTK AND STATIC METHODS.</p> <h3 style="margin: 0;">BENCHMARK</h3> <hr/> <div style="display: flex; justify-content: space-between;"><div style="width: 60%;"><p>CITY OF NORTH LAS VEGAS - BENCHMARK NO. NLV9228SE6; BEING A RIVET AND 2" ROUND ALUMINUM DISK STAMPED NORTH LAS VEGAS BM NO. NLV 9228SE6, LOCATED IN A 3' X 4' CONCRETE CABLE BOX APPROX. 75 FEET WEST AND 30 FEET SOUTH OF THE INTERSECTION OF EL CAMPO GRANDE AVE. AND LINN LANE. NAVD 88 ELEVATION=605.689m., 1987.165 US SURVEY FEET</p></div><div style="width: 35%; text-align: center;"><p>EXPIRES 06-30-21</p></div></div> <p style="text-align: right;">PAGE 1 OF 4</p>				
DWYER ENGINEERING INC. 7310 SMOKE RANCH RD., SUITE E LAS VEGAS, NEVADA 89128 Phone: (702) 254-2200 Fax: (702) 254-2236	<h2 style="margin: 0;">KXST</h2> <h3 style="margin: 0;">TOWER LOCATIONS</h3> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"><tr><td style="width: 33%;">Drawn: TLH</td><td style="width: 33%;">Pn: 19833</td><td style="width: 33%;">Date: 06-18-19</td></tr></table>	Drawn: TLH	Pn: 19833	Date: 06-18-19
Drawn: TLH	Pn: 19833	Date: 06-18-19		

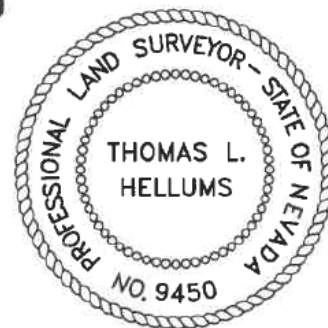
EXHIBIT "B"

APN: 123-28-701-006

SCALE: 1" = 100'



**NE 1/4 of the SE 1/4, of
SECTION 28, T 19 S., R 62 E.**



EXPIRES 06-30-21

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KXST TOWER LOCATIONS

Drawn: TLH Pn: 19833 Date: 06-18-19

EXHIBIT "B"

APN: 123-28-701-006

LEGEND

— — — — — ANTENNA-NORTH AZIMUTHS

▷ ANTENNA TOWER-EXISTING

▷ ANTENNA TOWER-NEW

SURVEYOR'S NOTES:

1. ELEVATIONS ARE A PART OF THIS SURVEY.
2. THIS SURVEY WAS COMPLETED ON JUNE 11, 2019.
3. THE LEGAL DESCRIPTION OF THIS PARCEL IS THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 28, TOWNSHIP 19 SOUTH, RANGE 62 EAST, M.D.M., CITY OF NORTH LAS VEGAS, CLARK COUNTY, NEVADA.



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KXST

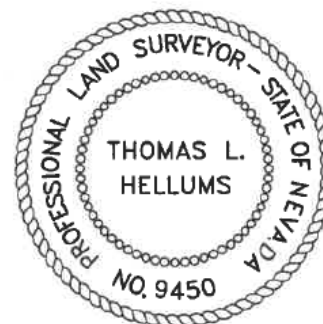
TOWER LOCATIONS

Drawn: TLH Pn: 19833 Date: 06-18-19

EXHIBIT "B"

APN: 123-28-701-006

Point Table				
Point #	Elevation	Northing	Easting	Description
2000	2224.10	26803407.97	814532.46	WEST ANTENNA-KXST
2001	2020.30	26803291.61	814991.61	SOUTHEAST ANTENNA-KXST
2002	2025.90	26803584.59	814631.95	NORTH ANTENNA-KXST



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KXST

TOWER LOCATIONS

Drawn: TLH

Pn: 19833

Date: 06-18-19