

## **ENGINEERING REPORT**

**Minor change in Licensed Facility**

**KWED(AM) – Seguin, TX**

**Facility ID No. 52671**

**Frequency: 1580 kHz**

**June 2022**

***MUNN-REESE***

Broadcast Engineering Consultants  
Coldwater, MI 49036

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## Discussion

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This firm was retained to prepare this Minor Modification Application for KWED(AM), Seguin, TX. Presently, KWED(AM) operates on 1580 kHz with 1.0 kW of daytime power and 0.253 kW nighttime power utilizing a single tower. KWED (AM) proposes operation from a different site with non-directional day power of 1.45 kw and night power of 0.3 kW.

**Broadcast Facility.** The broadcast facility remains in compliance with all applicable rules contained in C.F.R. Chapter 47, Part 73, Subpart A. The proposed KWED(AM) antenna system will consist of one single non-directional tower as noted in **Exhibit 13.1**. Maps depicting the licensed and proposed day/night service contours have been included in **Exhibit 13.2**. The proposed 1.0 V/m "Blanket" interference contours for the licensed and proposed daytime operations has been included in **Exhibit 13.3**.

**Community Coverage.** The proposed daytime and critical hours operations will provide 5 mV/m, city grade coverage to 100% of the community of license, Seguin, TX as shown in **Exhibits 13.2**.

**Main Studio Location.** N/A

**Groundwave Interference.** The proposed allocation remains in compliance with the requirements of §73.37. **Exhibit(s) 17.1** and **17.2** contain the tabulation allocation studies for the present and proposed operation respectively. No prohibited contour overlap is predicted to occur to any domestic or international facility as noted in the attached daytime documentation.

**Skywave Interference.** The proposed allocation will comply with the requirements of §73.182. **Exhibit 18.1** is a nighttime allocation study for the proposed operation. In response to FCC attempts to streamline the application process, nighttime protections in which the proposed operation will have a negligible effect have been omitted. A complete list of all protections will be supplied upon request. Analysis of the complete study has concluded the proposed operation will not interfere with any protected operation; however individual studies will be supplied for any station upon request.

**Environmental Protection Act.** The proposed allocation is in compliance with OET Bulletin No. 65. Full protection is afforded by the proposal. An RF Radiation study has been included in **Exhibit 20.1**.

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## **Exhibit 13.1**

### **Description of Proposed Antenna System**

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#### **DAYTIME/NIGHTTIME ANTENNA SYSTEM**

1. The common daytime/critical hours antenna system consists of one (1) non-directional vertical guyed uniform cross-section grounded steel tower. The electrical height of the tower is 113 degrees or 59.45 meters. The overall tower height is 59.45 meters.
2. The proposed ground system will consist of 120 buried copper radials, extending on average no less than 47.44 meters in length, or 90 degrees in electrical length. The material used for the radials is #10 AWG, soft drawn copper wire or equivalent.
3. The theoretical efficiency for the proposed day/night operation will be 320.563 mV/m/kW at 1 km.

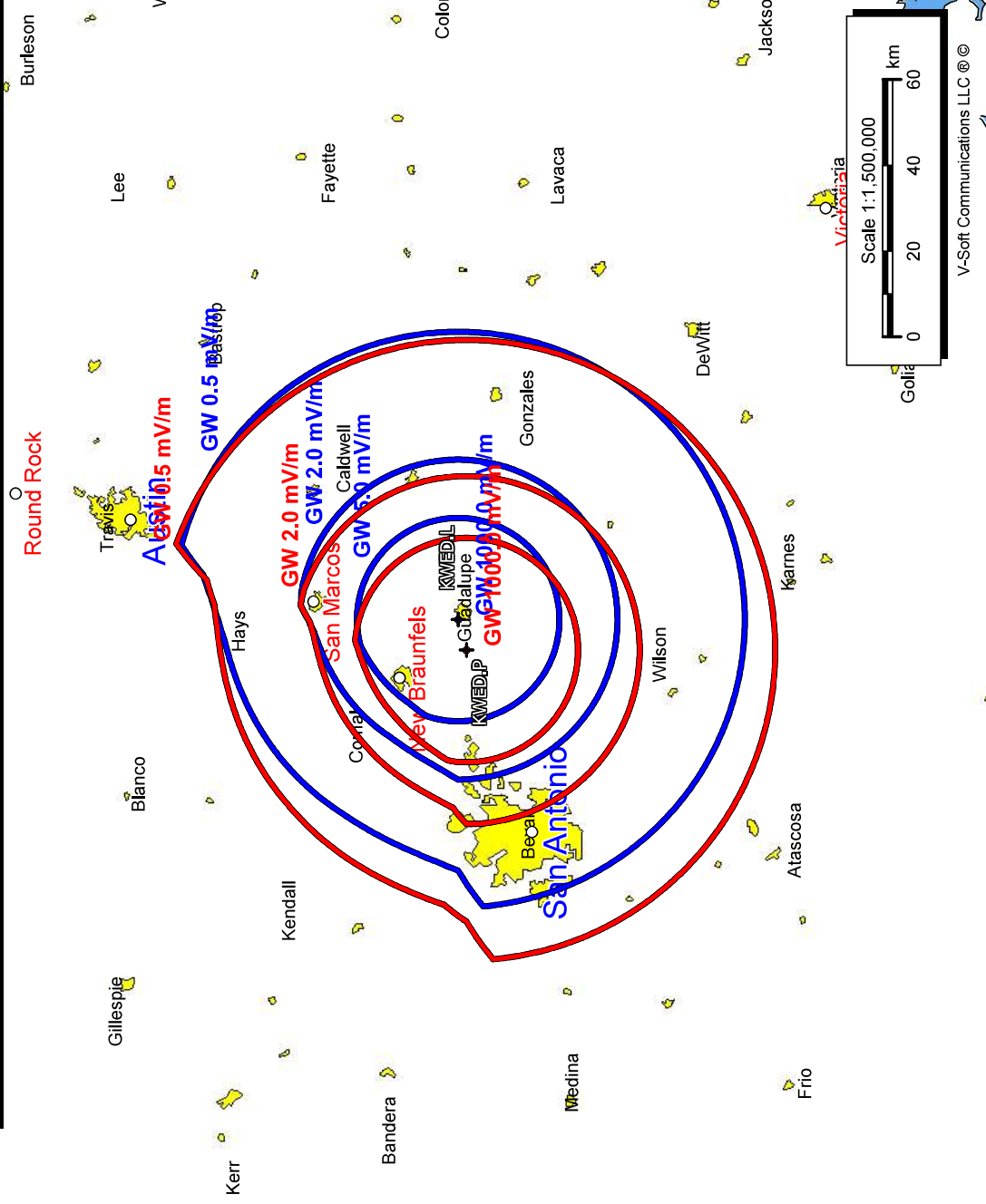
Exhibit 13.2 - Present and Proposed Daytime Service Contours

**KWED.L**

Freq: 1580 kHz  
Class: B  
Latitude: 29-34-48 N  
Longitude: 097-59-05 W  
Power: 1 kW  
RMS: 320.26 mV/m @1km  
# Towers: 1  
# Augs: 0

**KWED.P**

Freq: 1580 kHz  
Class: B  
Latitude: 29-33-46 N  
Longitude: 098-03-28.80 W  
Power: 1.45 kW  
RMS: 320.563 mV/m @1km  
# Towers: 1  
# Augs: 0



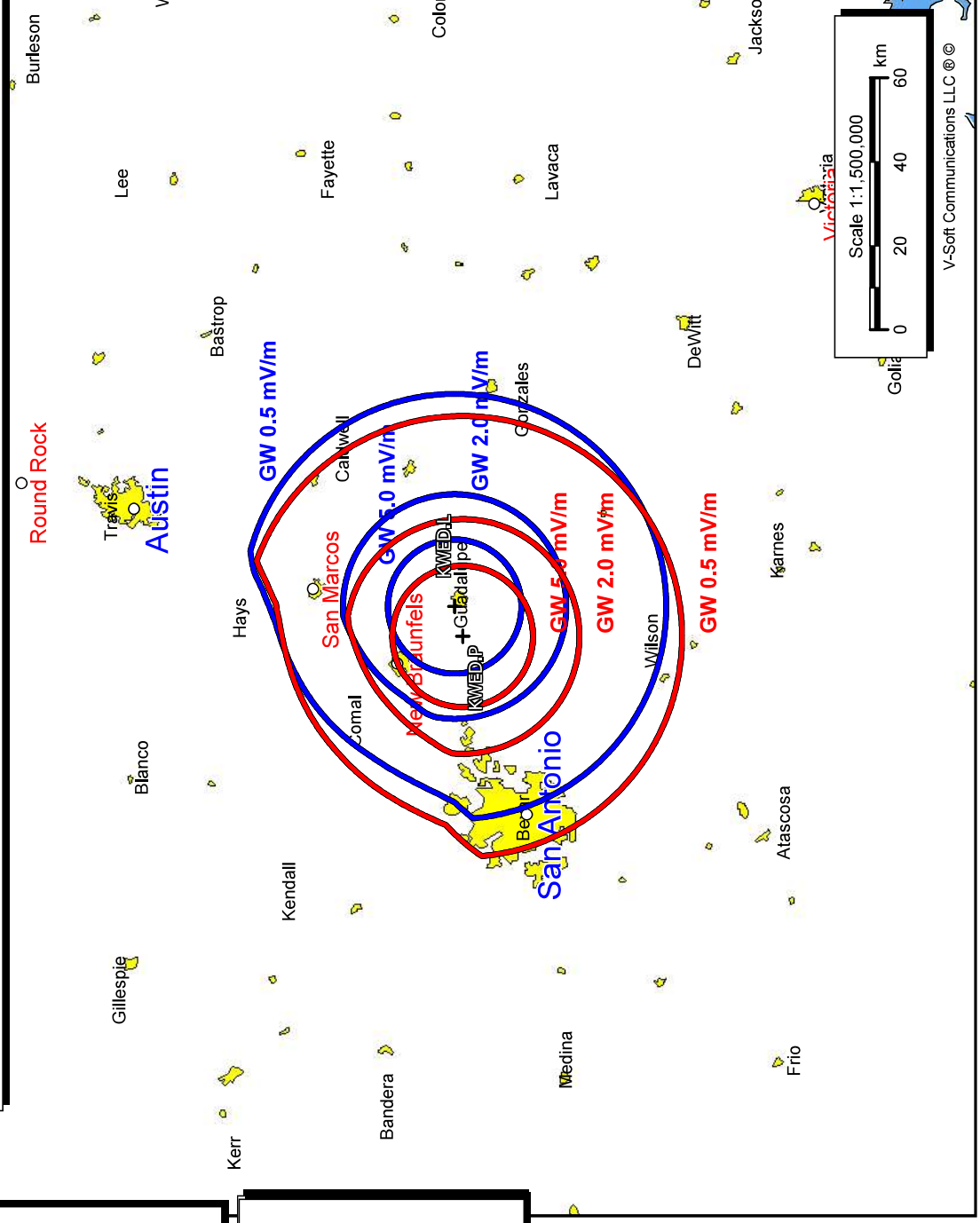
### Exhibit 13.3 - Present and Proposed Nighttime Service Contours

#### KWED.L

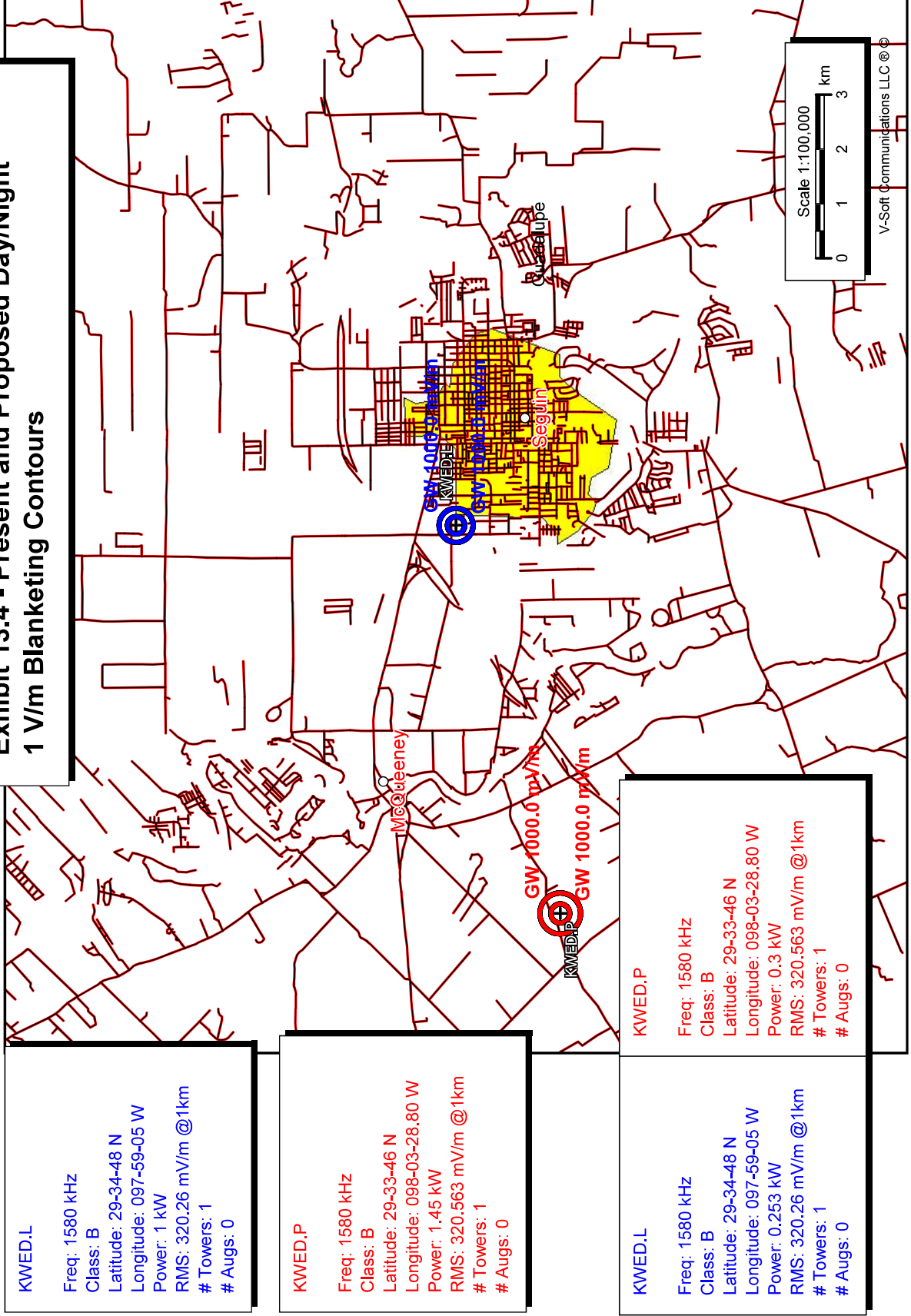
Freq: 1580 kHz  
Class: B  
Latitude: 29-34-48 N  
Longitude: 097-59-05 W  
Power: 0.253 kW  
RMS: 320.26 mV/m @1km  
# Towers: 1  
# Augs: 0

#### KWED.P

Freq: 1580 kHz  
Class: B  
Latitude: 29-33-46 N  
Longitude: 098-03-28.80 W  
Power: 0.3 kW  
RMS: 320.563 mV/m @1km  
# Towers: 1  
# Augs: 0



# Exhibit 13.4 - Present and Proposed Day/Night 1 V/m Blanketing Contours



**Exhibit 17.1 - Map of Present Day Allocation**

KWED.L  
Freq: 1580 kHz  
Class: B  
Latitude: 29-34-48 N  
Longitude: 097-59-05 W  
Power: 1 kW  
RMS: 320.26 mV/m @1km  
# Towers: 1  
# Augs: 0

Freq: 1580 kHz

**Class: B**

Latitude: 29-34-48 N

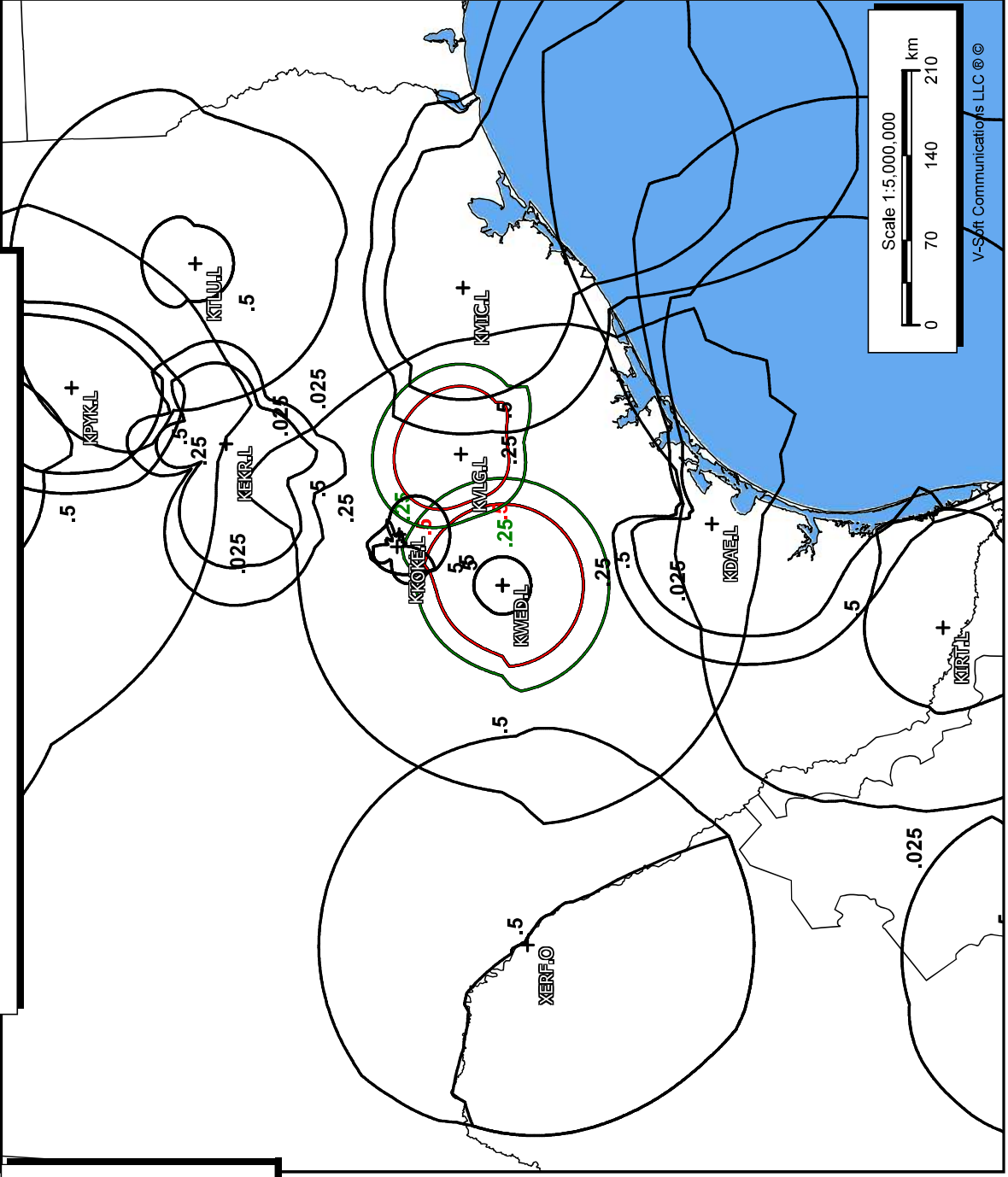
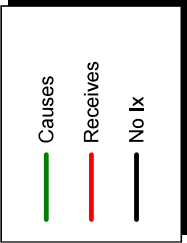
Longitude: 097-59-05 W

Power: 1 kW

RMS: 320.26 mV/m @1km

# Towers: 1

# Augs: 0





# AM Daytime Study

Reference Station:

Call: KWED.L

Freq: 1580 kHz

SEGUIN, TX, US

Lat: 29-34-48 N

Power: 1.0 kW

Lng: 097-59-05 W

Theo RMS: 320.26 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	108.7	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
KVLG.L	1570	LA GRANGE	TX	113.3	73.1	-234.75	-700.50
KDAE.L	1590	SINTON	TX	179.9	163.9	30.14	25.65
KOKE.L	1600	PFLUGERVILLE	TX	94.8	26.6	29.51	29.51
KTXZ.L	1560	WEST LAKE HIL	TX	92.3	20.4	39.54	39.54
KMIC.L	1590	HOUSTON	TX	247.2	83.8	59.75	66.92
KIRT.L	1580	MISSION	TX	365.8	185.3	89.38	97.04
KEKR.L	1590	MEXIA	TX	255.2	27.9	102.98	107.22
KTLU.L	1580	RUSK	TX	366.3	48.1	183.34	134.67
KGAF.L	1580	GAINESVILLE	TX	456.5	10.7	182.36	211.98
XERF.O	1570	CD.ACUNA	CI	296.8	264.3	58.85	224.98
KPYK.L	1570	TERRELL	TX	389.3	25.8	231.41	227.49
XE0050.P	1580	SALTILLO	CI	546.0	212.2	356.23	310.12



# AM Daytime Study

Reference Station:

Call: KWED.P

Freq: 1580 kHz

SEGUIN, TX, US

Lat: 29-33-46 N

Power: 1.45 kW

Lng: 098-03-28.80 W

Theo RMS: 320.56 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	113.0	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
KWED.L	1580	SEGUIN	TX	7.4	75.0	-14440.00	-12632.00
KVLG.L	1570	LA GRANGE	TX	120.7	73.2	-136.75	-669.50
KDAE.L	1590	SINTON	TX	180.2	161.6	24.46	18.77
KOKE.L	1600	PFLUGERVILLE	TX	99.9	29.8	32.08	32.08
KTXZ.L	1560	WEST LAKE HIL	TX	96.7	23.9	39.00	39.00
KMIC.L	1590	HOUSTON	TX	254.5	83.6	61.82	67.50
KIRT.L	1580	MISSION	TX	363.3	184.2	83.72	81.49
KEKR.L	1590	MEXIA	TX	260.2	29.1	104.08	106.54
KTLU.L	1580	RUSK	TX	372.8	48.6	184.63	130.09
KGAF.L	1580	GAINESVILLE	TX	459.7	11.6	186.00	208.68
XERF.O	1570	CD.ACUNA	CI	289.6	264.6	46.96	213.05
KPYK.L	1570	TERRELL	TX	394.1	26.6	230.95	225.54
XE0050.P	1580	SALTILLO	CI	540.5	211.7	345.56	292.23

## **Exhibit 18.1 – Night Allocation**

### Night Allocation Protection Report

Call: KWED.L  
 Freq: 1580 kHz  
 SEGUIN, TX, US  
 Hours: N  
 Lat: 29-33-46 N  
 Lng: 098-03-28.80 W  
 Power: 0.3 kW  
 Theo RMS: 320.56 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	113.0	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)
KGAF.L	US	TX	GAINESVILLE	134.56	4.414	164.01	163.29	0.72
KIRT.L	US	TX	MISSION	181.00	6.139	169.58	156.21	13.38
XEDM.O/O	MX	SO	HERMOSILLO	42.29	2.190	258.89	173.92	84.97
XEDM.P/A	MX	SO	HERMOSILLO	41.90	2.199	262.39	173.92	88.48
WSRF.L	US	FL	FORT LAUDERDALE	19.09	1.543	404.18	175.57	228.61
WCCF.L	US	FL	PUNTA GORDA	23.09	1.894	409.99	175.46	234.53
KMIC.L	US	TX	HOUSTON	245.29	2.057	419.32	139.64	279.68
CKDO/ (256)	CA	ON	Oshawa	3.14	0.314	498.85S	175.58	323.27
KDAE.L	US	TX	SINTON	315.38	3.254	515.83	118.28	397.55
XE0050.P/A	MX	CI	SALTILLO	118.14	14.263	603.67	160.24	443.43
XE0042.P/O	MX	HG	TULANCINGO	58.83	7.921	673.21	172.53	500.68
WHLY.L	US	IN	SOUTH BEND	17.05	2.605	764.02	175.54	588.48
KDAV.L	US	TX	LUBBOCK	104.89	1.594	760.00	167.53	592.47
XEAF1.P/O	MX	GT	APASEO EL GRAND	60.10	9.304	774.05	172.46	601.59
WNYG.L	US	NY	PATCHOGUE	7.48	1.165	778.91	175.58	603.33
XEAF.P/A	MX	GT	OJO SECO	58.31	9.248	792.97	172.61	620.36
KKTS.L	US	WY	EVANSVILLE	18.65	3.061	820.63	175.50	645.13
XETBV.O/A	MX	VC	TIERRA BLANCA	42.14	7.056	837.21	173.92	663.29
XEQL.P/A	MX	MC	ZAMORA	50.43	8.913	883.82	173.31	710.51
WWCD.L	US	OH	COLUMBUS	15.93	2.845	892.66	175.57	717.09
XEVAB1.P/A	MX	MX	VALLE DE BRAVO	47.99	8.780	914.68	173.50	741.18

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CKDO/ (208)	CA ON Oshawa	2.66	0.518	974.53g	175.58	798.96
XEUY.O/A	MX VC NANCHITAL	36.22	7.171	989.96	174.29	815.68
WJFK.L	US MD MORNINGSIDE	10.98	2.245	1022.08	175.58	846.50
XELI.O/A	MX GR CHILPANCINGO	35.25	7.791	1105.25	174.33	930.91
KVGB.L	US KS GREAT BEND	47.29	1.136	1200.86	173.74	1027.12
KWLO.L	US UT SPRINGVILLE	18.29	4.466	1220.84	175.53	1045.31
WVNA.L	US AL TUSCUMBIA	37.88	1.328	1752.92	174.52	1578.40
XEFRT1.P/A	MX CS COMITAN	21.41	7.517	1755.58	175.09	1580.50
1580EDMONT/	CA AB Edmonton	3.81	1.406	1847.76	175.58	1672.18
XEST.O/A	MX SI MAZATLAN	55.24	20.708	1874.45	172.90	1701.55
KELP.L	US TX EL PASO	61.63	2.369	1921.90	172.61	1749.29
WVOZ.L	US PR AGUADILLA	6.79	3.052	2246.76	175.58	2071.18
XE.O/A	MX CS TAPACHULA	16.61	7.472	2248.78	175.30	2073.48
KBLA.L	US CA SANTA MONICA	15.30	7.076	2312.45	175.58	2136.87
WAKR.L	US OH AKRON	13.28	0.647	2436.04	175.58	2260.46
KQFN.C	US AZ TEMPE	27.97	14.324	2560.20	175.20	2385.00
.O-B (92)	AC JUDGE BAY	0.49	0.250	2565.76S	175.58	2390.18
KGAL.L	US OR LEBANON	6.80	4.002	2944.59	175.58	2769.01
WHOT.L	US FL PALM RIVER-CLAI	24.17	1.436	2971.70	175.41	2796.29
TGPY.O-D	GT PAYAKI	4.96	3.003	3026.69	175.47	2851.22
YNR11.P-A (48)	NU RELOJ NACION	3.22	2.240	3474.14S	175.58	3298.56
TIMS.O-A	CS GUANACASTE	2.32	1.983	4275.29	175.58	4099.71
CMHQ.O-C	CU SANTA CRUZ S	3.02	3.073	5091.24	175.58	4915.66
KWBG.L	US IA BOONE	23.90	2.905	6077.40	175.28	5902.12
WARV.L	US RI WARWICK	6.40	0.888	6936.25	175.58	6760.67
WNTS.L	US IN BEECH GROVE	20.71	2.951	7125.04	175.44	6949.60
KLIV.L	US CA SAN JOSE	10.54	1.613	7650.92	175.58	7475.34
KLIV.C	US CA SAN JOSE	10.53	1.615	7664.14	175.58	7488.56
WPVL.L	US WI PLATTEVILLE	19.02	3.318	8723.99	175.47	8548.52
WXRF.L	US PR GUAYAMA	6.38	1.328	10398.49	175.58	10222.91
KGFK.L	US MN EAST GRAND FORK	11.10	2.404	10827.30	175.58	10651.72
KBCV.L	US MO HOLLISTER	53.46	12.409	11605.62	173.24	11432.37

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KVTA.L	US CA VENTURA	14.12	3.504	12407.84	175.58	12232.26
WCGO.L	US IL EVANSTON	18.03	4.596	12745.47	175.51	12569.96
KLFE.L	US WA SEATTLE	5.55	1.420	12790.00	175.58	12614.42
WPWA.L	US PA CHESTER	9.34	2.522	13498.69	175.58	13323.11
WLRS.L	US IN NEW ALBANY	23.11	6.322	13675.77	175.35	13500.43
WSWV.L	US VA PENNINGTON GAP	20.58	5.639	13701.82	175.47	13526.35
KTIL.L	US OR NETARTS	6.10	1.729	14159.39	175.58	13983.81
WFRL.L	US IL FREEPORT	19.27	5.705	14802.79	175.47	14627.32
WTLK.L	US NC TAYLORSVILLE	18.19	5.397	14832.34	175.54	14656.80
WBGX.L	US IL HARVEY	18.87	5.601	14838.85	175.49	14663.37
WILO.L	US IN FRANKFORT	20.17	6.026	14936.58	175.46	14761.12
WNCA.L	US NC SILER CITY	15.83	4.930	15572.84	175.58	15397.26
WPTW.L	US OH PIQUA	17.44	5.685	16296.41	175.54	16120.87
WYTI.L	US VA ROCKY MOUNT	15.42	5.144	16676.58	175.58	16501.01
WTVB.L	US MI COLDWATER	15.49	5.193	16764.15	175.57	16588.59
KDIZ.L	US MN GOLDEN VALLEY	15.58	5.501	17658.46	175.56	17482.91
WECU.L	US NC WINTERVILLE	13.37	4.732	17694.06	175.58	17518.48
WFUR.L	US MI GRAND RAPIDS	14.50	5.190	17903.58	175.58	17728.00
KUAU.L	US HI HAIKU	2.37	0.852	17966.72	175.58	17791.14
WFBR.L	US MD GLEN BURNIE	10.58	3.860	18250.04	175.58	18074.46
WKBH.L	US WI HOLMEN	16.85	6.445	19120.37	175.53	18944.84
KAKK.L	US MN WALKER	12.04	4.666	19375.32	175.58	19199.74
WSCO.L	US WI APPLETON	14.44	5.807	20106.98	175.58	19931.41
KCVR.L	US CA LODI	10.69	4.356	20372.55	175.58	20196.97
WLKD.L	US WI MINOCQUA	12.51	5.310	21216.58	175.58	21041.00
KTGE.L	US CA SALINAS	11.03	5.292	23986.67	175.58	23811.09
WNST.L	US MD TOWSON	10.38	5.317	25604.96	175.58	25429.38
HCAE5.O-A	EC GIRON	0.69	3.553	25848.99	175.58	25673.41
WHTX.L	US OH WARREN	12.49	6.583	26345.27	175.58	26169.69
WISP.L	US PA DOYLESTOWN	8.92	4.871	27319.09	175.58	27143.51
WAUB.L	US NY AUBURN	8.28	4.721	28523.42	175.58	28347.84
WPGM.L	US PA DANVILLE	9.48	5.442	28711.25	175.58	28535.67
WGBW.L	US WI DENMARK	13.87	9.295	33496.80	175.58	33321.22

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HJQZ.O-A	CO	BARRANQUILLA	1.25	8.434	33738.10	175.58	33562.52
HCAB3.O-A	EC	CATACOA	0.66	4.524	34099.08	175.58	33923.51
WFTU.L	US NY	RIVERHEAD	7.26	4.974	34256.96	175.58	34081.38
HIWJ.O-C	DR	SAMANA	1.31	9.370	35717.34	175.58	35541.76
WFLR.L	US NY	DUNDEE	8.72	6.282	36028.06	175.58	35852.48
HCTI6.O-A	EC	QUERO	0.74	5.385	36150.17	175.58	35974.59
HCUA4.O-A	EC	ESMERALDAS	0.87	6.367	36710.05	175.58	36534.47
HJLC.O-A	CO	EL BANCO	1.08	8.101	37665.99	175.58	37490.41
HCLF1.O-A	EC	ECOS DE OREL	0.78	6.331	40708.20	175.58	40532.62
HCCP2.O-A	EC	CANAL DEL PU	0.75	6.318	42336.37	175.58	42160.79
LRH366.P-A	AR	VILLA BERTHE	0.21	1.831	43118.08	175.58	42942.50
WRSB.L	US NY	BROCKPORT	8.82	7.615	43155.35	175.58	42979.77
HJNN.O-A	CO	V ROSARIO 1	0.94	8.152	43470.12	175.58	43294.54
WVTL.L	US NY	AMSTERDAM	7.10	6.378	44904.85	175.58	44729.27
CBPK/	CA BC	Revelstoke	3.86	35.812	46431.77	175.58	46256.19
HJKF.O-A	CO	ZIPAQUIRA	0.87	8.098	46491.56	175.58	46315.98
HCHA2.O-A	EC	ELOY ALFARO	0.74	6.890	46778.00	175.58	46602.42
HJOE.O-A	CO	ROVIRA	0.88	8.219	46831.19	175.58	46655.61
LRH373.P-A	AR	GBDOR VIRASO	0.20	1.901	48377.07	175.58	48201.49
.P-A	BR	IPUMIRIM	0.19	1.868	49265.78	175.58	49090.20
.P-A	BR	P DAS MISSEO	0.19	1.884	49608.51	175.58	49432.93
ZYL-290.O-A	BR	SANTOS DUMON	0.18	1.840	50287.86	175.58	50112.28
ZYJ-487.O-A	BR	CONC DE MACA	0.18	1.792	50852.85	175.58	50677.28
CX158.O-A	UY	DOLORES	0.18	1.864	51344.49	175.58	51168.91
LT27.O-A	AR	VILLAGUAY	0.19	1.950	51487.17	175.58	51311.59
CV158.O-A	UY	EL PORORO	0.17	1.794	52019.52	175.58	51843.94
CW54.O-A	UY	MINAS	0.17	1.802	52169.35	175.58	51993.77
LRH372.P-A	AR	MERCEDES	0.20	2.077	52564.89	175.58	52389.31
ZYK-504.O-A	BR	AMPARO	0.19	2.074	54890.18	175.58	54714.60
CW158.O-A	UY	TRANQUERAS	0.18	2.052	55668.77	175.58	55493.19
ZYL210.O-A	BR	ITAPECERICA	0.19	2.124	55744.71	175.58	55569.13
.P-A	BR	PALMAR DO SU	0.18	1.983	56574.79	175.58	56399.21

ZYK-807.O-A	BR	ENCANTADO	0.18	2.057	56631.40	175.58	56455.82
ZYJ818.O-A	BR	POMERODE	0.18	2.076	56818.31	175.58	56642.73
LRJ366.P-A	AR	LAS VARILLAS	0.20	2.297	58061.79	175.58	57886.21
CA 158.O-A	CI	HUASCO	0.24	2.818	59558.59	175.58	59383.01
.P-A	BR	SAO JOAO	0.20	2.344	59862.97	175.58	59687.39
LT36.O-A	AR	CHACABUCO	0.18	2.251	61779.66	175.58	61604.08
ZYH515.P-A	BR	BARRA DO MEN	0.21	2.642	63355.66	175.58	63180.08
ZYK-626.O-A	BR	JAGUARIBE	0.21	2.752	64514.23	175.58	64338.65
ZYI-898.O-A	BR	FLORIANO 1	0.23	2.997	64597.66	175.58	64422.08
CD 158A.O-A	CI	COLLIPULLI	0.19	2.479	65285.75	175.58	65110.17
CD 158.O-A	CI	CANETE	0.19	2.527	65825.31	175.58	65649.73
ZYI-415.O-A	BR	JARDIM	0.23	2.977	65872.83	175.58	65697.25
.P-A	BR	TEOLANDIA	0.19	2.552	66244.26	175.58	66068.68
ZYL-329.O-A	BR	ESPINOSA	0.20	2.675	66556.80	175.58	66381.22
.P-A	BR	CONCHAS	0.19	2.557	66713.48	175.58	66537.90
.P-A	BR	TERESOPOLIS	0.18	2.472	69248.22	175.58	69072.64
ZYH-486.O-A	BR	CANAVIEIRAS	0.18	2.588	69970.65	175.58	69795.07
.P-A	BR	GUARANESIA	0.19	2.712	70053.53	175.58	69877.95
ZYH-464.O-A	BR	MURITIBA	0.19	2.727	70401.13	175.58	70225.55
.P-A	BR	IVINHEMA	0.21	2.964	70782.84	175.58	70607.26
ZYK-339.O-A	BR	ARROIO GRAND	0.17	2.492	71234.93	175.58	71059.35
.P-A	BR	CAMBE	0.20	2.905	72295.35	175.58	72119.77
.P-A	BR	TUPA	0.20	2.975	73063.97	175.58	72888.39
.P-A	BR	DIVINO	0.18	2.661	73442.05	175.58	73266.47
.P-A	BR	CANINDE	0.22	3.284	73924.57	175.58	73748.99
.P-A	BR	IBIUNA	0.19	2.828	75580.57	175.58	75404.99
.P-A	BR	S J DO EGITO	0.20	3.129	77302.13	175.58	77126.55
CC 158.O-A	CI	SANTA CRUZ	0.20	3.176	78151.28	175.58	77975.70
.P-A	BR	ITAPORANGA 1	0.19	3.052	78768.70	175.58	78593.12
.P-A	BR	AFONSO CLAUD	0.18	2.913	81126.78	175.58	80951.20
.P-A	BR	CEARA MIRIM	0.20	3.419	85438.86	175.58	85263.28
CP 166.O-A	BL	LLALLAGUA	0.29	5.921	101253.12	175.58	101077.54
CP 135.O-A	BL	PUNATA	0.29	6.139	104048.90	175.58	103873.32



OAX5M.O-A	PE	VILLARICA	0.41	9.667	116778.79	175.58	116603.21
OBX7Q.O-A	PE	TRIUNFO	0.38	9.770	129337.49	175.58	129161.91
ZYH-775.O-A	BR	IPORA	0.23	9.751	212522.76	175.58	212347.18

## **Exhibit 20.1**

### **Radiofrequency Radiation Guidelines Compliance Study**

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This instant application has been evaluated for potential of human exposure to non-ionizing radiofrequency radiation. The guidelines set forth in OET Bulletin No. 65 (Edition 97-01) and the companion Supplement A (Edition 97-01) were used as the standard for this evaluation. This site will house a single AM radiating structure associated with KWED(AM) – Sequin, TX. There are no other FM or TV sources of radiation within 315 meters of the shared site.

The 1580 kHz, KWED (AM) facility will operate with a daytime non-directional power of 1.45 kW and a nighttime non-directional power of 0.3 kW. Both modes of operation will utilize the same non-directional tower. The single tower will use a vertical element  $113^\circ$  in electrical length or  $0.301 \lambda$  (wavelength) for operation on 1580 kHz.

For purposes of this study, the worst-case power level of 1.45 kW has been assumed in the  $0.27 \lambda$  (wavelength) tower regardless of mode of operation. Table 2 of Supplement A specifies for 0.21-0.4 wavelength AM towers operating on 1580 kHz with a total input power of 5.0 kW or less, the non-ionizing radiation will fall to safe levels at distances of 2 meters (6.6 feet) or more. Proposed fencing around the base of the tower will be constructed to achieve this level of protection. Access to the area within the fence will be limited by means of a locked gate. In addition to these measures, signs will be posted warning of the potential for exposure to excessive levels of non-ionizing radiofrequency radiation.

In the event maintenance personnel are required to work within the restricted area, they will be advised to limit their work in the high RF field areas to specified periods of time appropriate for compliance with the FCC guidelines set forth in OET Bulletin No. 65 (Edition 97-01). If their work cannot be completed within the specified period of time, it is proposed to reduce power appropriately or shut down the operation of the station to permit completion of the assignment. There are no additional sources of radiofrequency radiation subject to the guidelines of OET Bulletin No. 65 (Edition 97-01) at this location.