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ENGINEERING REPORT

APPLICATION for CONSTRUCTION PERMIT
to RELOCATE and MODIFY ANTENNA

KIDO(AM)

580 kHz

Nampa, Idaho

Facility ID 17396

20 kW Day, 4.4 kW Night DA-N

Townsquare License, LLC

January 2024

Purpose of Application

This Engineering Report has been prepared in support of an application by Townsquare License, LLC ("Townsquare") to relocate KIDO(AM), Nampa, Idaho, increase daytime power and modify nighttime operation. Diplexed operation with KBOI(AM) is proposed, with no new tower construction or modification required.

Allocation Considerations

Daytime

The proposed 20 kW non-directional daytime operation of KIDO will not result in prohibited contour overlap with any known facility in the January 22, 2024 edition of the FCC's AM database, as demonstrated by the allocation study maps contained in this report. No maps for 2nd or 3rd-adjacent channels are included, as there are no such facilities close enough to require study. All maps are based on M3 ground conductivity data.

Nighttime

The proposed 4.4 kW nighttime operation of KIDO will enter the 25% RSS of the following US stations or the 50% RSS of the following Canadian stations.

KZMX Hot Springs, AR
KVI Seattle, WA
CKXR Salmon Arm, BC
KUBC Montrose, CO
KQNT Spokane, WA
KTMT Ashland, OR

The RSS contribution to each of these facilities is reduced by this proposal, as demonstrated by the site to site RSS calculations included in this report. This report includes calculations for all stations to which KIDO will exceed the 10% RSS threshold.

Facilities Proposed

Townsquare proposes continued operation of KIDO on 580 kHz with a power of 20 kW daytime and 4.4 kW nighttime, using the existing six tower KBOI array. Non-directional daytime operation will use tower #5 (NW) of the KBOI array, identified by ASR# 1040305.
This report uses the same tower numbering scheme as the nighttime operation of KBOI.

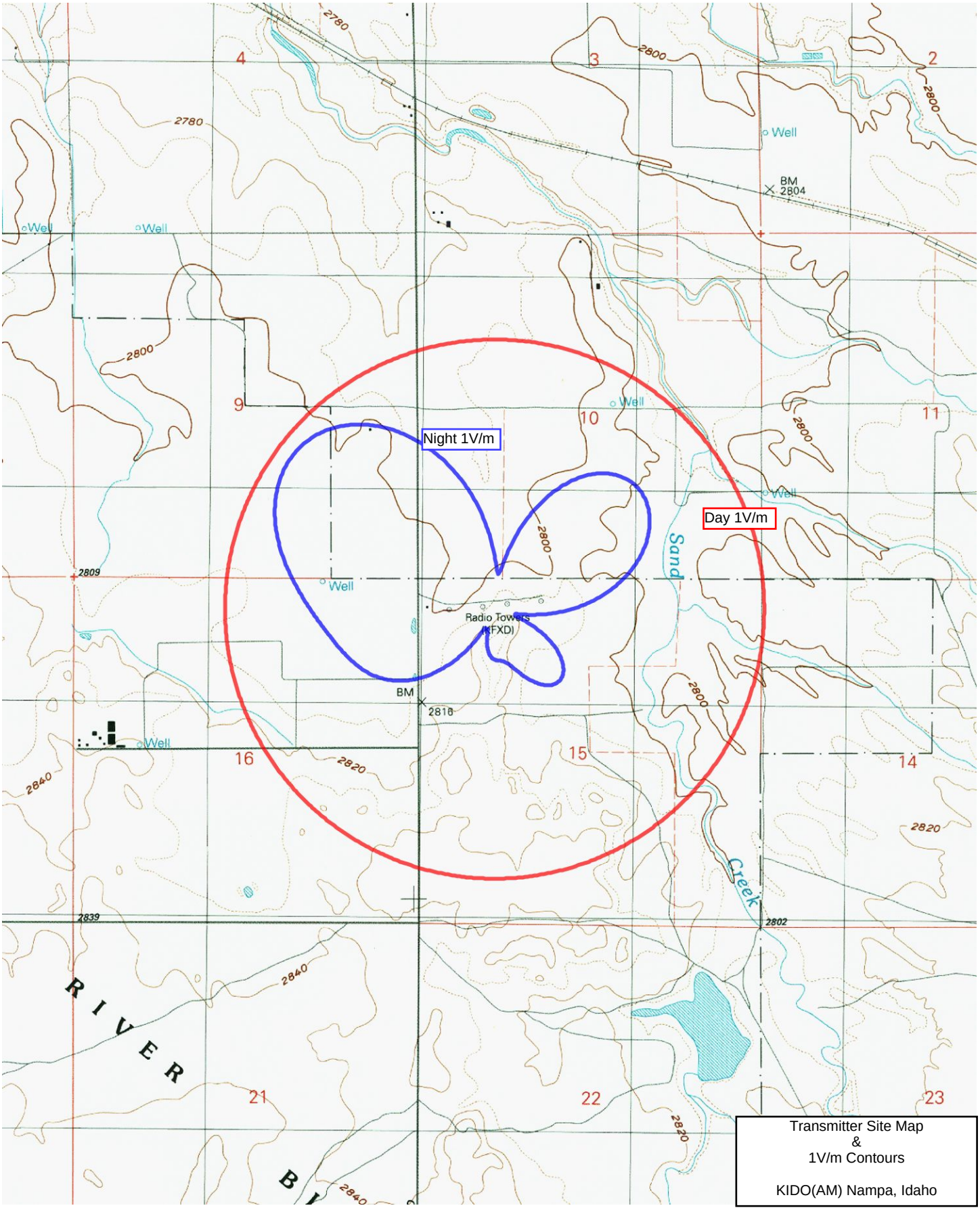
The area within the daytime 1V/m blanketing contour of the proposed KIDO operation has a population of 26 persons. The area within the nighttime 1V/m contour is unpopulated.

Antenna tower access is restricted by fences with locked gates that are at least 4 meters from the tower bases, as required by OET-65. The antenna towers are posted with warning signs, and all station personnel and contractors will be required to follow appropriate safety procedures before any work is commenced on the antenna towers, including reduction in power or discontinuance of operation before any maintenance work is undertaken.

The ground system consists of 120 equally spaced buried copper radials about the base of each tower, each 112 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers.[1]

[1]BP-970415AE (KBOI)

KIDO - KBOI Transmitter Site Photo



Transmitter Site Map
&
1V/m Contours

KIDO(AM) Nampa, Idaho

Mercator Projection
WGS84
UTM Zone 11T

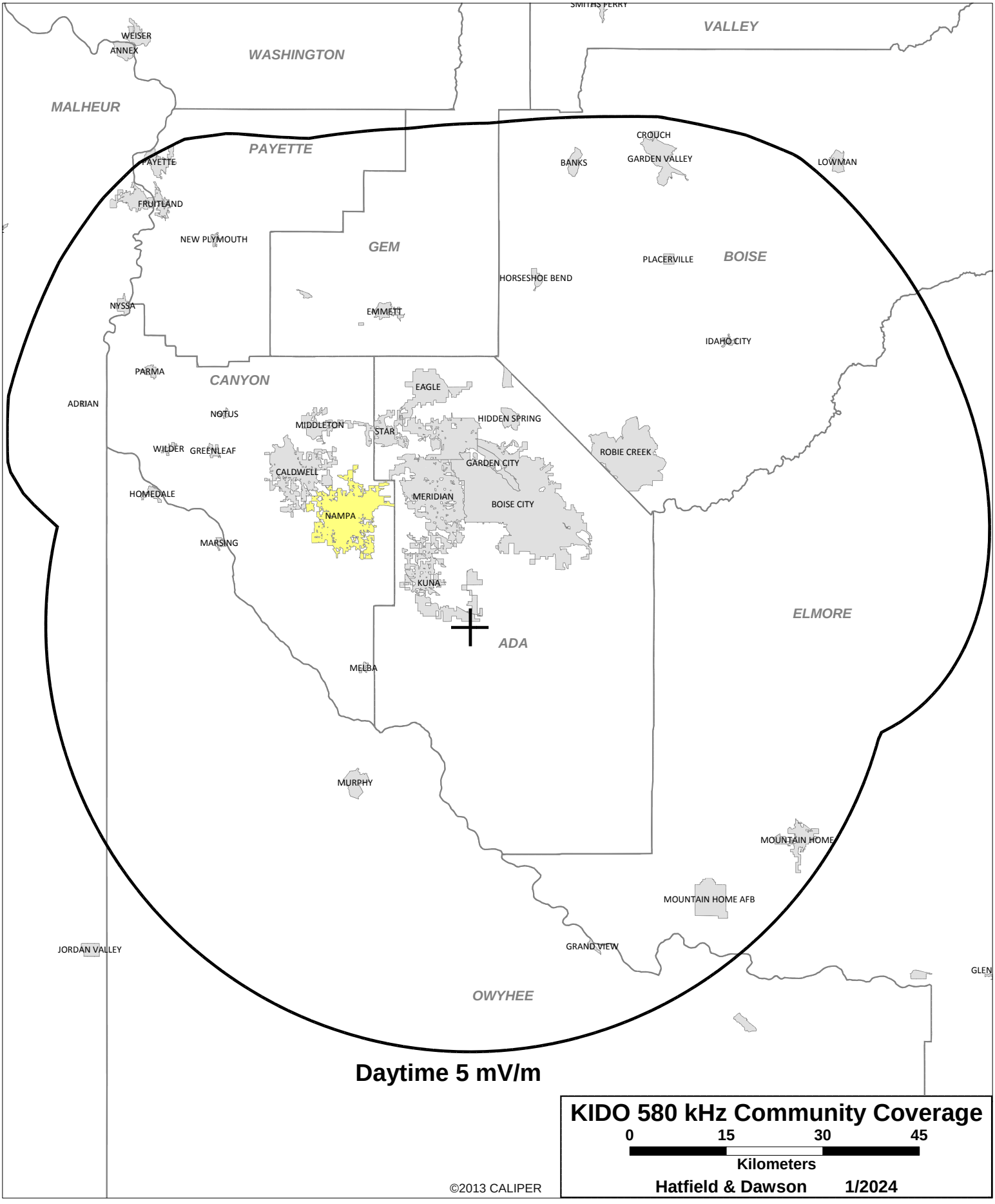
CALTOPO

0.5 1.0 1.5 2.0 2.5 km

0.5 1.0 1.5 mi

Scale **1:24000** 1 inch = 2000 feet

MN
12.9º



Daytime 5 mV/m

KIDO 580 kHz Community Coverage

0 15 30 45

Kilometers

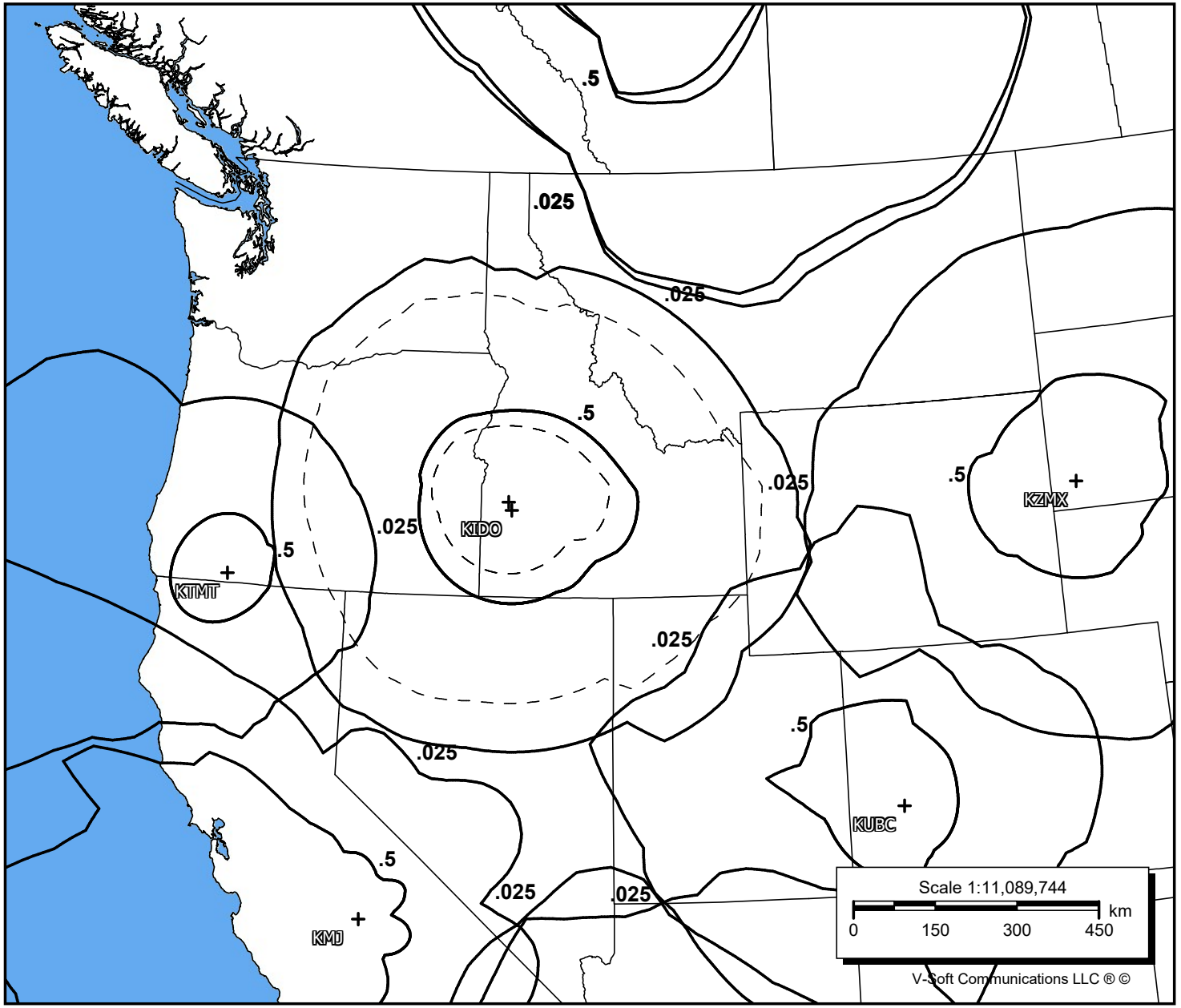
Hatfield & Dawson 1/2024

KIDO

Freq: 580 kHz
Class: B
Latitude: 43-25-44 N
Longitude: 116-19-43 W
Power: 20 kW
RMS: 298.131 mV/m @1km
Towers: 1
Augs: 0

Daytime Allocation Study
Co-Channel

Dashed Lines are
Licensed Contours

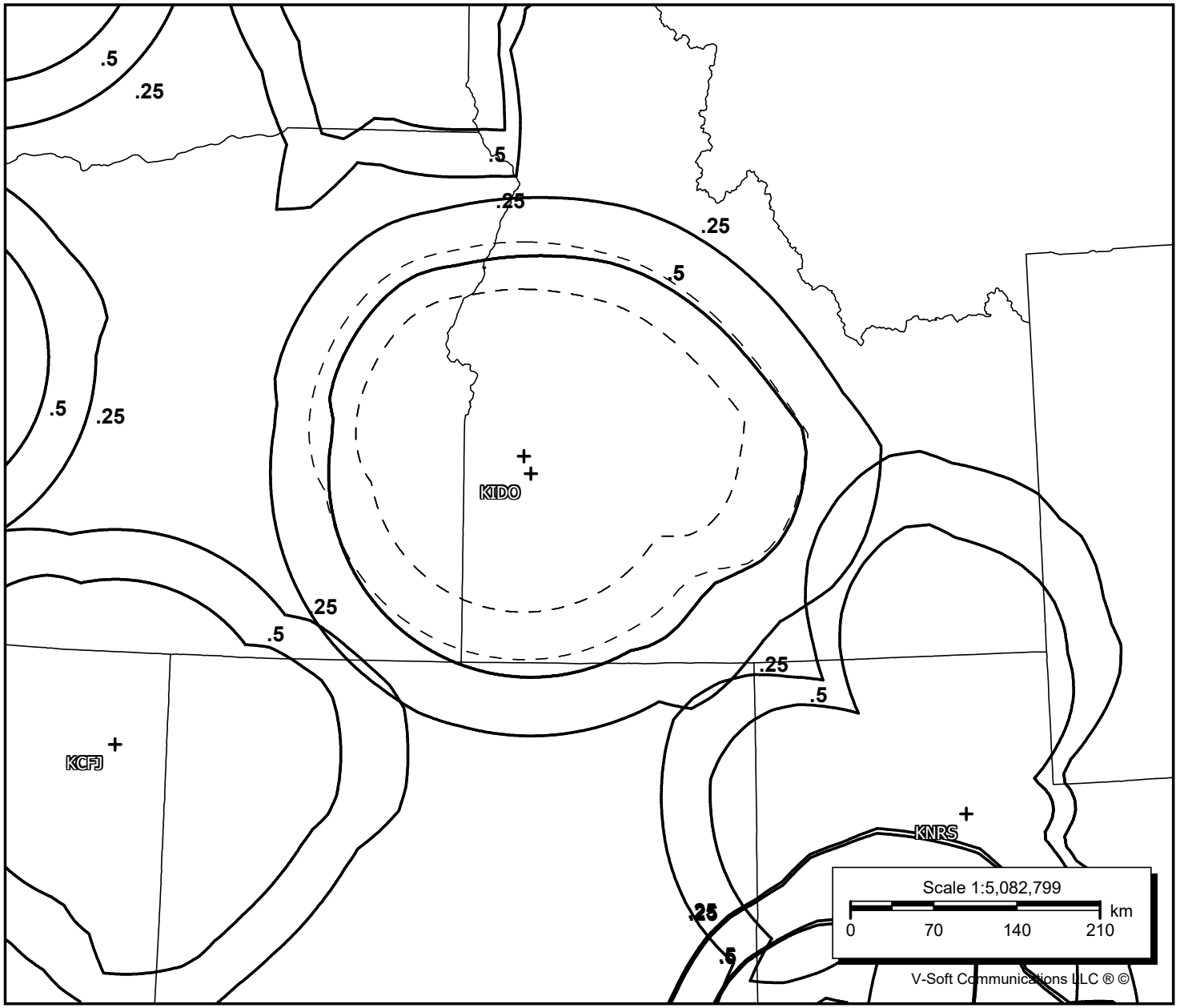


KIDO

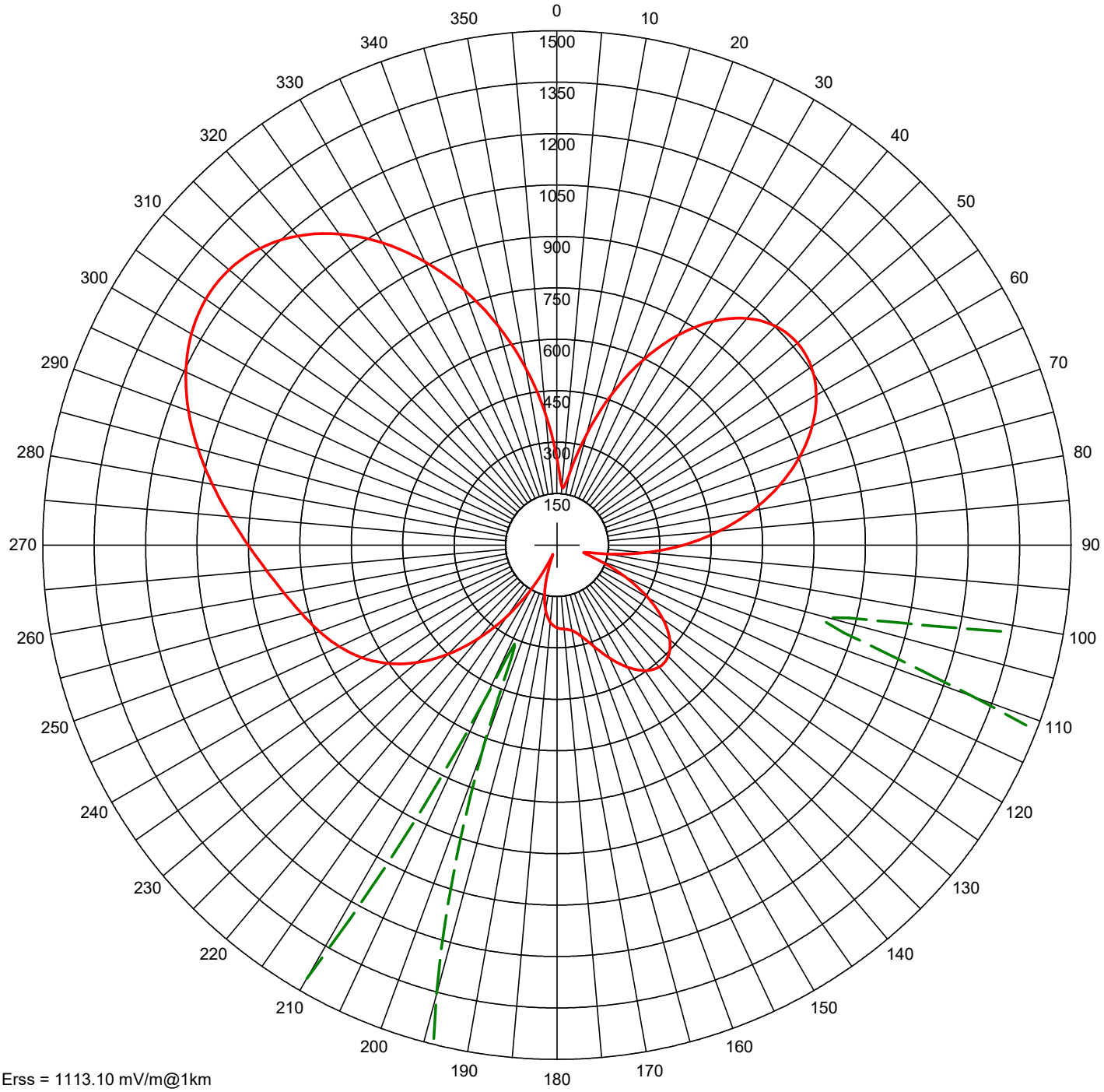
Freq: 580 kHz
Class: B
Latitude: 43-25-44 N
Longitude: 116-19-43 W
Power: 20 kW
RMS: 298.131 mV/m @1km
Towers: 1
Augs: 0

Daytime Allocation Study
1st-Adjacent Channel

Dashed Lines are
Licensed Contours



AM Directional Pattern



Erss = 1113.10 mV/m@1km
Theo RMS: 650.019 mV/m@1km
Std RMS: 683.145 mV/m@1km
Q: 27.828 mV/m@1km

Standard Horizontal Plane Pattern

Pattern (mV/m @ 1km)
Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.589	172.4	0.0	0.0	77.9	0	0	0.0	0.0	0.0	0.0
2	0.325	50.9	77.7	150.4	77.9	0	0	0.0	0.0	0.0	0.0
3	1.000	0.0	76.2	289.5	77.9	0	0	0.0	0.0	0.0	0.0
4	0.307	129.3	129.6	228.5	77.9	0	0	0.0	0.0	0.0	0.0
5	0.556	-165.6	215.5	271.6	77.9	0	0	0.0	0.0	0.0	0.0
6	0.456	-26.0	243.5	254.0	77.9	0	0	0.0	0.0	0.0	0.0

Call: KIDO
Freq: 580 kHz
NAMPA, ID, US
Hours: N
Lat: 43-25-44 N [NAD27]
Lng: 116-19-43 W
Power: 4.4 kW
Theo RMS: 650.02 mV/m@1km
@ 4.4 kW

Tabulation of Nighttime Directional Antenna Pattern

Call: KIDO
Freq: 580 kHz
NAMPA, ID, US
Hours: N
Lat: 43-25-44 N [NAD27]
Lng: 116-19-43 W
Power: 4.4 kW
Theo RMS: 650.02 mV/m @ 1km @ 4.4 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.589	172.4	0.0	0.0	77.9	0	0	0.0	0.0	0.0	0.0
2	0.325	50.9	77.7	150.4	77.9	0	0	0.0	0.0	0.0	0.0
3	1.000	0.0	76.2	289.5	77.9	0	0	0.0	0.0	0.0	0.0
4	0.307	129.3	129.6	228.5	77.9	0	0	0.0	0.0	0.0	0.0
5	0.556	-165.6	215.5	271.6	77.9	0	0	0.0	0.0	0.0	0.0
6	0.456	-26.0	243.5	254.0	77.9	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	252.78	120.0	306.20	240.0	656.76
5.0	170.36	125.0	377.90	245.0	700.61
10.0	213.66	130.0	429.87	250.0	737.25
15.0	334.24	135.0	459.03	255.0	771.47
20.0	468.28	140.0	464.31	260.0	808.00
25.0	595.48	145.0	446.96	265.0	850.51
30.0	706.87	150.0	411.03	270.0	900.79
35.0	797.02	155.0	363.60	275.0	958.42
40.0	862.68	160.0	314.66	280.0	1020.93
45.0	902.42	165.0	275.50	285.0	1084.38
50.0	916.39	170.0	253.60	290.0	1143.96
55.0	906.05	175.0	246.13	295.0	1194.61
60.0	873.69	180.0	241.02	300.0	1231.52
65.0	822.05	185.0	225.44	305.0	1250.59
70.0	753.98	190.0	191.17	310.0	1248.74
75.0	672.18	195.0	135.56	315.0	1224.20
80.0	579.16	200.0	62.51	320.0	1176.64
85.0	477.32	205.0	49.07	325.0	1107.09
90.0	369.18	210.0	145.96	330.0	1017.78
95.0	258.14	215.0	251.95	335.0	911.62
100.0	151.22	220.0	355.44	340.0	791.84
105.0	81.54	225.0	450.46	345.0	661.64
110.0	129.17	230.0	533.12	350.0	524.28
115.0	219.86	235.0	601.74	355.0	384.34

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	252.93	120.0	301.05	240.0	651.60
5.0	171.08	125.0	372.04	245.0	695.69
10.0	212.55	130.0	423.45	250.0	732.70
15.0	331.11	135.0	452.31	255.0	767.30
20.0	463.52	140.0	457.60	260.0	804.11
25.0	589.35	145.0	440.60	265.0	846.69
30.0	699.62	150.0	405.31	270.0	896.77
35.0	788.94	155.0	358.73	275.0	953.93
40.0	854.06	160.0	310.68	280.0	1015.76
45.0	893.55	165.0	272.20	285.0	1078.39
50.0	907.56	170.0	250.59	290.0	1137.09
55.0	897.46	175.0	243.05	295.0	1186.90
60.0	865.53	180.0	237.78	300.0	1223.12
65.0	814.44	185.0	222.21	305.0	1241.70
70.0	747.01	190.0	188.28	310.0	1239.62
75.0	665.93	195.0	133.39	315.0	1215.14
80.0	573.67	200.0	61.58	320.0	1167.94
85.0	472.61	205.0	49.56	325.0	1099.03
90.0	365.25	210.0	145.00	330.0	1010.58
95.0	254.85	215.0	249.67	335.0	905.45
100.0	148.01	220.0	352.03	340.0	786.82
105.0	76.68	225.0	446.16	345.0	657.83
110.0	124.75	230.0	528.23	350.0	521.75
115.0	215.35	235.0	596.57	355.0	383.14

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	253.27	120.0	286.15	240.0	636.58
5.0	173.13	125.0	355.00	245.0	681.30
10.0	209.32	130.0	404.72	250.0	719.31
15.0	321.93	135.0	432.66	255.0	754.96
20.0	449.50	140.0	437.98	260.0	792.51
25.0	571.26	145.0	421.98	265.0	835.22
30.0	678.24	150.0	388.58	270.0	884.69
35.0	765.09	155.0	344.47	275.0	940.46
40.0	828.62	160.0	298.99	280.0	1000.27
45.0	867.38	165.0	262.49	285.0	1060.47
50.0	881.44	170.0	241.71	290.0	1116.61
55.0	872.09	175.0	233.98	295.0	1164.01
60.0	841.42	180.0	228.26	300.0	1198.19
65.0	792.01	185.0	212.76	305.0	1215.34
70.0	726.54	190.0	179.87	310.0	1212.60
75.0	647.63	195.0	127.22	315.0	1188.32
80.0	557.69	200.0	59.48	320.0	1142.19
85.0	459.04	205.0	51.88	325.0	1075.15
90.0	354.07	210.0	142.63	330.0	989.23
95.0	245.76	215.0	243.33	335.0	887.13
100.0	139.50	220.0	342.31	340.0	771.87
105.0	63.09	225.0	433.79	345.0	646.47
110.0	112.34	230.0	514.10	350.0	514.16
115.0	202.49	235.0	581.58	355.0	379.50

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	253.48	120.0	263.12	240.0	612.93
5.0	176.19	125.0	328.32	245.0	658.43
10.0	204.34	130.0	375.23	250.0	697.82
15.0	307.31	135.0	401.64	255.0	734.90
20.0	426.99	140.0	406.95	260.0	773.40
25.0	542.15	145.0	392.53	265.0	816.16
30.0	643.76	150.0	362.07	270.0	864.50
35.0	726.60	155.0	321.83	275.0	917.98
40.0	787.53	160.0	280.33	280.0	974.55
45.0	825.09	165.0	246.89	285.0	1030.89
50.0	839.26	170.0	227.42	290.0	1082.98
55.0	831.11	175.0	219.43	295.0	1126.55
60.0	802.54	180.0	213.10	300.0	1157.54
65.0	755.92	185.0	197.82	305.0	1172.46
70.0	693.75	190.0	166.76	310.0	1168.70
75.0	618.52	195.0	118.06	315.0	1144.77
80.0	532.55	200.0	58.20	320.0	1100.35
85.0	438.10	205.0	57.80	325.0	1036.30
90.0	337.43	210.0	140.28	330.0	954.43
95.0	233.13	215.0	234.33	335.0	857.19
100.0	129.12	220.0	327.74	340.0	747.35
105.0	44.67	225.0	414.87	345.0	627.76
110.0	94.74	230.0	492.21	350.0	501.56
115.0	183.21	235.0	558.15	355.0	373.32

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	253.06	120.0	234.59	240.0	582.47
5.0	179.71	125.0	294.44	245.0	628.57
10.0	198.10	130.0	337.40	250.0	669.29
15.0	288.19	135.0	361.67	255.0	707.78
20.0	397.21	140.0	366.88	260.0	747.09
25.0	503.48	145.0	354.41	265.0	789.54
30.0	597.88	150.0	327.70	270.0	836.14
35.0	675.30	155.0	292.34	275.0	886.48
40.0	732.71	160.0	255.86	280.0	938.74
45.0	768.63	165.0	226.26	285.0	990.04
50.0	782.89	170.0	208.45	290.0	1036.88
55.0	776.37	175.0	200.24	295.0	1075.53
60.0	750.69	180.0	193.29	300.0	1102.43
65.0	707.95	185.0	178.56	305.0	1114.52
70.0	650.44	190.0	150.29	310.0	1109.53
75.0	580.46	195.0	107.57	315.0	1086.10
80.0	500.25	200.0	60.30	320.0	1043.97
85.0	411.97	205.0	68.25	325.0	983.85
90.0	317.80	210.0	139.73	330.0	907.31
95.0	220.11	215.0	224.63	335.0	816.48
100.0	121.96	220.0	310.44	340.0	713.84
105.0	34.09	225.0	391.60	345.0	602.02
110.0	77.54	230.0	464.77	350.0	484.04
115.0	160.75	235.0	528.37	355.0	364.41

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	251.39	120.0	203.91	240.0	547.29
5.0	183.01	125.0	256.52	245.0	593.40
10.0	191.11	130.0	294.34	250.0	634.93
15.0	265.82	135.0	315.82	255.0	674.32
20.0	361.79	140.0	320.73	260.0	713.90
25.0	457.20	145.0	310.40	265.0	755.41
30.0	542.80	150.0	287.86	270.0	799.58
35.0	613.60	155.0	257.97	275.0	845.98
40.0	666.67	160.0	227.07	280.0	893.08
45.0	700.52	165.0	201.71	285.0	938.47
50.0	714.85	170.0	185.80	290.0	979.24
55.0	710.30	175.0	177.53	295.0	1012.24
60.0	688.20	180.0	170.20	300.0	1034.50
65.0	650.36	185.0	156.58	305.0	1043.43
70.0	598.80	190.0	132.28	310.0	1037.09
75.0	535.63	195.0	97.96	315.0	1014.36
80.0	462.97	200.0	67.20	320.0	974.99
85.0	382.92	205.0	82.34	325.0	919.55
90.0	297.68	210.0	142.21	330.0	849.33
95.0	209.70	215.0	216.17	335.0	766.16
100.0	122.50	220.0	292.72	340.0	672.16
105.0	48.47	225.0	366.49	345.0	569.73
110.0	69.48	230.0	434.31	350.0	461.75
115.0	139.38	235.0	494.62	355.0	352.58

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	247.79	120.0	174.82	240.0	509.33
5.0	185.27	125.0	218.09	245.0	554.46
10.0	183.78	130.0	249.55	250.0	595.84
15.0	241.60	135.0	267.55	255.0	635.17
20.0	322.65	140.0	271.83	260.0	674.11
25.0	405.62	145.0	263.53	265.0	713.84
30.0	481.16	150.0	245.21	270.0	754.81
35.0	544.35	155.0	220.88	275.0	796.59
40.0	592.38	160.0	195.62	280.0	837.94
45.0	623.76	165.0	174.58	285.0	876.92
50.0	638.07	170.0	160.70	290.0	911.19
55.0	635.71	175.0	152.66	295.0	938.23
60.0	617.72	180.0	145.48	300.0	955.63
65.0	585.61	185.0	133.81	305.0	961.31
70.0	541.12	190.0	114.93	310.0	953.71
75.0	486.15	195.0	91.51	315.0	931.90
80.0	422.69	200.0	78.01	320.0	895.65
85.0	352.80	205.0	98.08	325.0	845.43
90.0	278.74	210.0	147.66	330.0	782.25
95.0	203.28	215.0	210.09	335.0	707.62
100.0	130.97	220.0	276.38	340.0	623.34
105.0	75.12	225.0	341.69	345.0	531.56
110.0	76.21	230.0	403.10	350.0	434.96
115.0	123.60	235.0	459.09	355.0	337.64

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	241.59	120.0	150.59	240.0	469.98
5.0	185.66	125.0	182.54	245.0	512.88
10.0	176.27	130.0	206.50	250.0	552.81
15.0	216.97	135.0	220.31	255.0	590.83
20.0	281.86	140.0	223.49	260.0	627.98
25.0	351.28	145.0	216.85	265.0	664.95
30.0	415.83	150.0	202.40	270.0	701.97
35.0	470.68	155.0	183.25	275.0	738.61
40.0	513.11	160.0	163.28	280.0	773.89
45.0	541.64	165.0	146.33	285.0	806.29
50.0	555.74	170.0	134.59	290.0	834.03
55.0	555.61	175.0	127.27	295.0	855.17
60.0	542.03	180.0	121.03	300.0	867.86
65.0	516.19	185.0	112.46	305.0	870.49
70.0	479.56	190.0	100.60	310.0	861.84
75.0	433.82	195.0	89.56	315.0	841.19
80.0	380.79	200.0	90.46	320.0	808.37
85.0	322.46	205.0	113.25	325.0	763.70
90.0	261.11	210.0	154.60	330.0	707.99
95.0	199.71	215.0	206.24	335.0	642.46
100.0	143.03	220.0	262.14	340.0	568.60
105.0	101.15	225.0	318.44	345.0	488.30
110.0	92.01	230.0	372.64	350.0	404.00
115.0	115.93	235.0	423.31	355.0	319.43

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	232.24	120.0	132.78	240.0	429.81
5.0	183.42	125.0	152.46	245.0	469.17
10.0	168.45	130.0	168.11	250.0	506.26
15.0	193.20	135.0	177.12	255.0	541.60
20.0	241.54	140.0	178.65	260.0	575.74
25.0	296.79	145.0	173.09	265.0	609.02
30.0	349.80	150.0	161.83	270.0	641.43
35.0	395.83	155.0	147.13	275.0	672.60
40.0	432.23	160.0	131.79	280.0	701.75
45.0	457.54	165.0	118.56	285.0	727.75
50.0	471.16	170.0	109.12	290.0	749.29
55.0	473.10	175.0	103.23	295.0	764.94
60.0	463.90	180.0	99.03	300.0	773.34
65.0	444.47	185.0	94.86	305.0	773.32
70.0	416.01	190.0	91.14	310.0	763.98
75.0	379.94	195.0	91.63	315.0	744.79
80.0	337.88	200.0	102.17	320.0	715.60
85.0	291.66	205.0	125.87	325.0	676.68
90.0	243.42	210.0	160.83	330.0	628.64
95.0	195.92	215.0	203.17	335.0	572.44
100.0	153.11	220.0	249.37	340.0	509.33
105.0	121.18	225.0	296.71	345.0	440.92
110.0	107.85	230.0	343.27	350.0	369.37
115.0	114.68	235.0	387.83	355.0	297.91

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	219.38	120.0	120.28	240.0	388.62
5.0	177.95	125.0	128.70	245.0	423.30
10.0	159.92	130.0	136.15	250.0	456.28
15.0	171.22	135.0	140.12	255.0	487.71
20.0	203.66	140.0	139.54	260.0	517.78
25.0	244.69	145.0	134.38	265.0	546.55
30.0	286.00	150.0	125.48	270.0	573.91
35.0	322.98	155.0	114.33	275.0	599.50
40.0	353.06	160.0	102.85	280.0	622.72
45.0	374.81	165.0	93.01	285.0	642.77
50.0	387.54	170.0	86.18	290.0	658.70
55.0	391.15	175.0	82.62	295.0	669.53
60.0	385.95	180.0	81.69	300.0	674.32
65.0	372.59	185.0	82.86	305.0	672.23
70.0	352.01	190.0	86.85	310.0	662.66
75.0	325.36	195.0	95.62	315.0	645.22
80.0	293.98	200.0	111.23	320.0	619.85
85.0	259.43	205.0	134.37	325.0	586.73
90.0	223.51	210.0	164.12	330.0	546.35
95.0	188.41	215.0	198.75	335.0	499.46
100.0	156.89	220.0	236.38	340.0	447.08
105.0	132.34	225.0	275.32	345.0	390.54
110.0	118.08	230.0	314.24	350.0	331.68
115.0	115.06	235.0	352.19	355.0	273.16

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	202.85	120.0	109.89	240.0	345.73
5.0	168.85	125.0	110.05	245.0	374.94
10.0	150.14	130.0	110.72	250.0	402.88
15.0	151.43	135.0	110.15	255.0	429.49
20.0	169.77	140.0	107.35	260.0	454.72
25.0	197.27	145.0	102.11	265.0	478.49
30.0	227.13	150.0	94.82	270.0	500.60
35.0	255.10	155.0	86.40	275.0	520.74
40.0	278.71	160.0	78.18	280.0	538.46
45.0	296.56	165.0	71.60	285.0	553.21
50.0	307.93	170.0	67.88	290.0	564.33
55.0	312.58	175.0	67.57	295.0	571.19
60.0	310.65	180.0	70.60	300.0	573.15
65.0	302.56	185.0	76.71	305.0	569.68
70.0	288.99	190.0	86.04	310.0	560.39
75.0	270.78	195.0	99.07	315.0	545.04
80.0	248.98	200.0	116.23	320.0	523.61
85.0	224.77	205.0	137.61	325.0	496.25
90.0	199.49	210.0	162.77	330.0	463.34
95.0	174.69	215.0	190.94	335.0	425.48
100.0	152.06	220.0	221.18	340.0	383.46
105.0	133.35	225.0	252.52	345.0	338.37
110.0	120.01	230.0	284.14	350.0	291.68
115.0	112.51	235.0	315.36	355.0	245.45

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	182.80	120.0	98.40	240.0	300.47
5.0	155.98	125.0	94.02	245.0	323.88
10.0	138.54	130.0	90.40	250.0	346.31
15.0	133.58	135.0	86.66	255.0	367.62
20.0	140.81	140.0	82.22	260.0	387.65
25.0	156.32	145.0	76.87	265.0	406.26
30.0	175.48	150.0	70.84	270.0	423.23
35.0	194.77	155.0	64.74	275.0	438.30
40.0	211.93	160.0	59.52	280.0	451.14
45.0	225.61	165.0	56.32	285.0	461.38
50.0	235.07	170.0	56.08	290.0	468.60
55.0	239.98	175.0	59.20	295.0	472.40
60.0	240.32	180.0	65.49	300.0	472.39
65.0	236.32	185.0	74.52	305.0	468.26
70.0	228.39	190.0	86.04	310.0	459.77
75.0	217.11	195.0	99.97	315.0	446.80
80.0	203.18	200.0	116.31	320.0	429.36
85.0	187.42	205.0	134.99	325.0	407.60
90.0	170.71	210.0	155.79	330.0	381.82
95.0	154.02	215.0	178.33	335.0	352.45
100.0	138.30	220.0	202.15	340.0	320.14
105.0	124.44	225.0	226.73	345.0	285.69
110.0	113.09	230.0	251.59	350.0	250.22
115.0	104.51	235.0	276.29	355.0	215.22

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	159.61	120.0	84.22	240.0	252.72
5.0	139.47	125.0	78.46	245.0	270.40
10.0	124.66	130.0	73.25	250.0	287.33
15.0	116.92	135.0	68.30	255.0	303.33
20.0	116.75	140.0	63.42	260.0	318.25
25.0	122.83	145.0	58.61	265.0	331.91
30.0	132.73	150.0	54.09	270.0	344.13
35.0	144.07	155.0	50.38	275.0	354.72
40.0	155.02	160.0	48.17	280.0	363.44
45.0	164.38	165.0	48.20	285.0	370.05
50.0	171.42	170.0	50.87	290.0	374.30
55.0	175.75	175.0	56.17	295.0	375.95
60.0	177.22	180.0	63.77	300.0	374.80
65.0	175.89	185.0	73.27	305.0	370.66
70.0	171.98	190.0	84.42	310.0	363.43
75.0	165.79	195.0	97.07	315.0	353.05
80.0	157.75	200.0	111.11	320.0	339.57
85.0	148.34	205.0	126.45	325.0	323.12
90.0	138.07	210.0	142.94	330.0	303.92
95.0	127.49	215.0	160.38	335.0	282.31
100.0	117.10	220.0	178.52	340.0	258.74
105.0	107.34	225.0	197.11	345.0	233.80
110.0	98.54	230.0	215.84	350.0	208.26
115.0	90.85	235.0	234.46	355.0	183.09

Site to Site RSS Calculations

Protected Station: 580CKUA/ , 580 kHz - Edmonton, AB, CA
Coordinates: 53-20-34 N, 113-27-31 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.384	100.0
-------	50%	-------	
KUBC	0580	1.970	44.9
KTMT	0580	1.892	39.3
WIBW	0580	1.347	26.0
-------	25%	-------	
WKTY	0580	1.306	24.4
KMJ	0580	1.299	23.6
*KIDO	0580	1.208	21.3
KZMX	0580	1.182	20.4
CFRA/	0580	1.096	18.5
580CKXR/	0580	1.053	17.5
580CKPR/	0580	0.877	14.4

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.384	100.0
-------	50%	-------	
***KIDO-PRO**	**0580**	**2.191**	**49.9**
KUBC	0580	1.970	40.1
KTMT	0580	1.892	35.8
-------	25%	-------	
WIBW	0580	1.347	24.0
WKTY	0580	1.306	22.6
KMJ	0580	1.299	21.9
KZMX	0580	1.182	19.5
CFRA/	0580	1.096	17.7
580CKXR/	0580	1.053	16.8
580CKPR/	0580	0.877	13.7

Protected Station: CHBA/ , 580 kHz - Edmonton, AB, CA
Coordinates: 53-20-34 N, 113-27-31 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.384	100.0
-------	50%	-------	
KUBC	0580	1.970	44.9
KTMT	0580	1.892	39.3
WIBW	0580	1.347	26.0
-------	25%	-------	
WKTY	0580	1.306	24.4
KMJ	0580	1.299	23.6
*KIDO	0580	1.208	21.3
KZMX	0580	1.182	20.4
CFRA/	0580	1.096	18.5
580CKXR/	0580	1.053	17.5
580CKPR/	0580	0.877	14.4

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.384	100.0
-------	50%	-------	
***KIDO-PRO**	**0580**	**2.191**	**49.9**
KUBC	0580	1.970	40.1
KTMT	0580	1.892	35.8
-------	25%	-------	
WIBW	0580	1.347	24.0
WKTY	0580	1.306	22.6
KMJ	0580	1.299	21.9
KZMX	0580	1.182	19.5
CFRA/	0580	1.096	17.7
580CKXR/	0580	1.053	16.8
580CKPR/	0580	0.877	13.7

Protected Station: KZMX, 580 kHz - HOT SPRINGS, SD, US
Coordinates: 43-27-24 N, 103-28-34 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	9.639	100.0
KUBC	0580	7.647	79.3
-------	50%	-------	
***KIDO**	**0580**	**3.193**	**25.9**
-------	25%	-------	
KMJ	0580	3.165	24.9
WKTY	0580	3.151	24.0
580WINN/	0580	2.900	21.5
CHAH/	0580	1.567	11.3

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	9.639	100.0
KUBC	0580	7.647	79.3
-------	50%	-------	
***KIDO-PRO**	**0580**	**3.192**	**25.9**
-------	25%	-------	
KMJ	0580	3.165	24.9
WKTY	0580	3.151	24.0
580WINN/	0580	2.900	21.5
CHAH/	0580	1.567	11.3

Protected Station: CHAH/ , 580 kHz - Edmonton, AB, CA
Coordinates: 53-19-10 N, 113-26-47 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.439	100.0
-------	50%	-------	
KUBC	0580	1.980	44.6
KTMT	0580	1.896	39.0
WIBW	0580	1.352	25.9
-------	25%	-------	
WKTY	0580	1.310	24.3
KMJ	0580	1.302	23.4
*KIDO	0580	1.216	21.3
KZMX	0580	1.188	20.3
580CKXR/	0580	1.118	18.8
CFRA/	0580	1.095	18.0
580CKPR/	0580	0.878	14.2

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
580WINN/	0580	4.439	100.0
-------	50%	-------	
***KIDO-PRO**	**0580**	**2.214**	**49.8**
KUBC	0580	1.980	39.9
KTMT	0580	1.896	35.4
-------	25%	-------	
WIBW	0580	1.352	23.8
WKTY	0580	1.310	22.4
KMJ	0580	1.302	21.7
KZMX	0580	1.188	19.4
580CKXR/	0580	1.118	17.9
CFRA/	0580	1.095	17.3
580CKPR/	0580	0.878	13.6

Protected Station: KVI, 570 kHz - SEATTLE, WA, US
Coordinates: 47-25-19 N, 122-25-44 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KPQ	0560	3.925	100.0
-------	50%	-------	
***KIDO**	**0580**	**1.749**	**44.5**
KLAC	0570	1.435	33.3
WNAX	0570	1.389	30.6
-------	25%	-------	
KNRS	0570	0.845	17.8
580CKXR/	0580	0.739	15.3
KTMT	0580	0.701	14.4
CKWL/	0570	0.628	12.7
570CKEK/	0570	0.600	12.0
CB 57-A	0570	0.506	10.1

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KPQ	0560	3.925	100.0
-------	50%	-------	
***KIDO-PRO**	**0580**	**1.744**	**44.4**
KLAC	0570	1.435	33.4
WNAX	0570	1.389	30.6
-------	25%	-------	
KNRS	0570	0.845	17.8
580CKXR/	0580	0.739	15.3
KTMT	0580	0.701	14.4
CKWL/	0570	0.628	12.7
570CKEK/	0570	0.600	12.0
CB 57-A	0570	0.506	10.1

Protected Station: 580CKXR/ , 580 kHz - Salmon Arm, BC, CA
Coordinates: 50-43-05 N, 119-20-24 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
***KIDO**	**0580**	**10.541**	**100.0**
CHAH/	0580	9.910	94.0
-------	50%	-------	
KTMT	0580	4.703	32.5
580WINN/	0580	4.652	30.5
-------	25%	-------	
KMJ	0580	3.085	19.3
KUBC	0580	1.905	11.7

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
***KIDO-PRO**	**0580**	**10.395**	**100.0**
CHAH/	0580	9.910	95.3
-------	50%	-------	
KTMT	0580	4.703	32.7
580WINN/	0580	4.652	30.7
-------	25%	-------	
KMJ	0580	3.085	19.5
KUBC	0580	1.905	11.8

Protected Station: KMJ, 580 kHz - FRESNO, CA, US
Coordinates: 36-39-33 N, 119-20-47 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	2.593	100.0
KLAC	0570	1.505	58.0
-------	50%	-------	
OAX2E-A	0580	1.191	39.7
KRFE	0580	1.023	31.7
KJMJ	0580	0.977	28.8
CHAH/	0580	0.887	25.1
-------	25%	-------	
KSAZ	0580	0.845	23.2
XEHO1/A	0580	0.844	22.6
KTIE	0590	0.831	21.7
KUBC	0580	0.803	20.5
580CKXR/	0580	0.746	18.6
KTMT	0580	0.726	17.8
XEAV/A	0580	0.718	17.3
580WINN/	0580	0.706	16.8
XEFI/A	0580	0.678	15.9
KSUB	0590	0.652	15.1
KNRS	0570	0.624	14.3
KZMX	0580	0.620	14.0
WKTY	0580	0.464	10.4
XELRDA/A	0580	0.462	10.3
*KIDO	0580	0.449	10.0

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	2.593	100.0
KLAC	0570	1.505	58.0
-------	50%	-------	
OAX2E-A	0580	1.191	39.7
KRFE	0580	1.023	31.7
KJMJ	0580	0.977	28.8
CHAH/	0580	0.887	25.1
-------	25%	-------	
KSAZ	0580	0.845	23.2
XEHO1/A	0580	0.844	22.6
KTIE	0590	0.831	21.7
KUBC	0580	0.803	20.5
***KIDO-PRO**	**0580**	**0.770**	**19.2**
580CKXR/	0580	0.746	18.3
KTMT	0580	0.726	17.5
XEAV/A	0580	0.718	17.0
580WINN/	0580	0.706	16.5
XEFI/A	0580	0.678	15.7
KSUB	0590	0.652	14.9
KNRS	0570	0.624	14.1
KZMX	0580	0.620	13.8
WKTY	0580	0.464	10.2
XELRDA/A	0580	0.462	10.1

Protected Station: KUBC, 580 kHz - MONTROSE, CO, US
Coordinates: 38-25-32 N, 107-52-57 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	8.581	100.0
-------	50%	-------	
***KIDO**	**0580**	**3.704**	**43.1**
KSAZ	0580	3.598	38.4
KRFE	0580	3.068	30.6
-------	25%	-------	
KMJ	0580	2.485	23.7
KZMX	0580	2.363	21.9
KJMJ	0580	2.147	19.4
KNRS	0570	1.477	13.1
OAX2E-A	0580	1.410	12.4
CHAH/	0580	1.179	10.3
580WINN/	0580	1.164	10.1

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
WIBW	0580	8.581	100.0
-------	50%	-------	
KSAZ	0580	3.598	41.9
***KIDO-PRO**	**0580**	**3.583**	**38.5**
KRFE	0580	3.068	30.7
-------	25%	-------	
KMJ	0580	2.485	23.8
KZMX	0580	2.363	22.0
KJMJ	0580	2.147	19.5
KNRS	0570	1.477	13.1
OAX2E-A	0580	1.410	12.4
CHAH/	0580	1.179	10.3
580WINN/	0580	1.164	10.1

Protected Station: KQNT, 590 kHz - SPOKANE, WA, US
Coordinates: 47-36-55 N, 117-14-57 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KXSP	0590	1.420	100.0
***KIDO**	**0580**	**1.098**	**77.3**
CKSP/	0600	1.079	60.1
-------	50%	-------	
KTIE	0590	0.845	40.3
580CKXR/	0580	0.823	36.4
KCSJ	0590	0.674	28.0
CFAR/	0590	0.661	26.4
-------	25%	-------	
XEPH/A	0590	0.585	22.6
KSUB	0590	0.581	21.9
CFTK/	0590	0.509	18.7
KUGN	0590	0.484	17.5
KSSK	0590	0.468	16.7
XEE/A	0590	0.460	16.1
KGEZ	0600	0.402	13.9
XECJU/A	0590	0.357	12.2
KMJ	0580	0.341	11.6
590CFNL/	0590	0.329	11.1
KTMT	0580	0.316	10.6
580CKUA/	0580	0.314	10.5
XEHQ/A	0590	0.310	10.3

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KXSP	0590	1.420	100.0
CKSP/	0600	1.079	75.9
***KIDO-PRO**	**0580**	**1.068**	**59.8**
-------	50%	-------	
KTIE	0590	0.845	40.6
580CKXR/	0580	0.823	36.6
KCSJ	0590	0.674	28.1
CFAR/	0590	0.661	26.6
-------	25%	-------	
XEPH/A	0590	0.585	22.7
KSUB	0590	0.581	22.0
CFTK/	0590	0.509	18.8
KUGN	0590	0.484	17.6
KSSK	0590	0.468	16.7
XEE/A	0590	0.460	16.2
KGEZ	0600	0.402	14.0
XECJU/A	0590	0.357	12.3
KMJ	0580	0.341	11.6
590CFNL/	0590	0.329	11.2
KTMT	0580	0.316	10.6
580CKUA/	0580	0.314	10.5
XEHQ/A	0590	0.310	10.3

Protected Station: KTMT, 580 kHz - ASHLAND, OR, US
Coordinates: 42-09-51 N, 122-38-52 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
***KIDO**	**0580**	**16.131**	**100.0**
KMJ	0580	10.728	66.5
-------	50%	-------	
-------	25%	-------	
KUGN	0590	2.710	13.9

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
***KIDO-PRO**	**0580**	**15.835**	**100.0**
KMJ	0580	10.728	67.7
-------	50%	-------	
-------	25%	-------	
KUGN	0590	2.710	14.1

Protected Station: KSAZ, 580 kHz - MARANA, AZ, US
Coordinates: 32-27-11 N, 111-17-04 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KMJ	0580	6.905	100.0
WIBW	0580	4.781	69.2
-------	50%	-------	
XEHO1/A	0580	3.002	35.7
KRFE	0580	2.737	30.6
*KIDO	0580	2.486	26.6
KUBC	0580	2.446	25.3
-------	25%	-------	
XEFI/A	0580	2.445	24.5
OAX2E-A	0580	1.713	16.7
KJMJ	0580	1.641	15.7
XEAV/A	0580	1.576	14.9
XELRDA/A	0580	1.230	11.5
KNRS	0570	1.180	11.0

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KMJ	0580	6.905	100.0
WIBW	0580	4.781	69.2
-------	50%	-------	
XEHO1/A	0580	3.002	35.7
KRFE	0580	2.737	30.6
KUBC	0580	2.446	26.2
XEFI/A	0580	2.445	25.3
-------	25%	-------	
***KIDO-PRO**	**0580**	**1.873**	**18.8**
OAX2E-A	0580	1.713	16.9
KJMJ	0580	1.641	15.9
XEAV/A	0580	1.576	15.1
XELRDA/A	0580	1.230	11.6
KNRS	0570	1.180	11.1

Protected Station: XE/O, 580 kHz - SAN FELIPE, BN, MX
Coordinates: 31-03-48 N, 114-50-10 W
Standard: Mexican [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KSAZ	0580	4.881	100.0
KMJ	0580	4.156	85.1
-------	50%	-------	
XEHO1/A	0580	2.927	45.6
WIBW	0580	2.631	37.3
XEFI/A	0580	2.131	28.3
KRFE	0580	2.054	26.2
-------	25%	-------	
*KIDO	0580	1.801	22.2
KUBC	0580	1.193	14.4
XEAV/A	0580	1.139	13.6
XELRDA/A	0580	0.956	11.3

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KSAZ	0580	4.881	100.0
KMJ	0580	4.156	85.1
-------	50%	-------	
XEHO1/A	0580	2.927	45.6
WIBW	0580	2.631	37.3
XEFI/A	0580	2.131	28.3
KRFE	0580	2.054	26.2
-------	25%	-------	
***KIDO-PRO**	**0580**	**1.608**	**19.8**
KUBC	0580	1.193	14.4
XEAV/A	0580	1.139	13.6
XELRDA/A	0580	0.956	11.3

Protected Station: KNRS, 570 kHz - SALT LAKE CITY, UT, US
Coordinates: 40-49-09 N, 111-55-56 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KVI	0570	4.231	100.0
WNAX	0570	3.832	90.5
KLAC	0570	3.161	55.3
-------	50%	-------	
-------	25%	-------	
KMJ	0580	1.036	15.8
KLIF	0570	0.933	14.1
*KIDO	0580	0.867	12.9
WWNC	0570	0.774	11.5
TISBJ-A	0570	0.774	11.4
XENZ/A	0570	0.698	10.2
CB 57-A	0570	0.694	10.1

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KVI	0570	4.231	100.0
WNAX	0570	3.832	90.5
KLAC	0570	3.161	55.3
-------	50%	-------	
-------	25%	-------	
KMJ	0580	1.036	15.8
KLIF	0570	0.933	14.1
***KIDO-PRO**	**0580**	**0.866**	**12.9**
WWNC	0570	0.774	11.5
TISBJ-A	0570	0.774	11.4
XENZ/A	0570	0.698	10.2
CB 57-A	0570	0.694	10.1

Protected Station: WKTY, 580 kHz - LA CROSSE, WI, US
Coordinates: 43-44-25 N, 091-12-21 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
580CKPR/	0580	4.445	100.0
WIBW	0580	3.180	71.5
-------	50%	-------	
WCHS	0580	1.830	33.4
580WINN/	0580	1.817	31.5
-------	25%	-------	
KXSP	0590	1.496	24.7
WTCM	0580	1.435	23.0
OAX2E-A	0580	1.336	20.9
KZMX	0580	1.095	16.7
KUBC	0580	0.986	14.9
*KIDO	0580	0.965	14.4
KMJ	0580	0.918	13.5
WNAX	0570	0.798	11.6
WKZO	0590	0.744	10.8
KJMJ	0580	0.710	10.2

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
580CKPR/	0580	4.445	100.0
WIBW	0580	3.180	71.5
-------	50%	-------	
WCHS	0580	1.830	33.4
580WINN/	0580	1.817	31.5
-------	25%	-------	
KXSP	0590	1.496	24.7
WTCM	0580	1.435	23.0
OAX2E-A	0580	1.336	20.9
KZMX	0580	1.095	16.7
KUBC	0580	0.986	14.9
***KIDO-PRO**	**0580**	**0.958**	**14.3**
KMJ	0580	0.918	13.5
WNAX	0570	0.798	11.6
WKZO	0590	0.744	10.8
KJMJ	0580	0.710	10.2

Protected Station: KUGN, 590 kHz - EUGENE, OR, US
Coordinates: 44-06-03 N, 123-03-06 W
Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
KQNT	0590	11.017	100.0
-------	50%	-------	
-------	25%	-------	
KSUB	0590	2.444	22.1
*KIDO	0580	2.350	20.8
KTMT	0580	1.866	16.1
KTIE	0590	1.324	11.3

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
KQNT	0590	11.017	100.0
-------	50%	-------	
-------	25%	-------	
KSUB	0590	2.444	22.1
***KIDO-PRO**	**0580**	**1.976**	**17.5**
KTMT	0580	1.866	16.2
KTIE	0590	1.324	11.4

Protected Station: 580WINN/ , 580 kHz - Winnipeg, MB, CA
Coordinates: 49-36-09 N, 097-09-01 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
WKTY	0580	9.152	100.0
580CKPR/	0580	6.107	66.7
-------	50%	-------	
580CKUA/	0580	3.770	34.2
*KIDO	0580	3.606	31.0
CFRA/	0580	3.497	28.7
WIBW	0580	3.274	25.8
-------	25%	-------	
KUBC	0580	2.780	21.2
KZMX	0580	2.589	19.3
580CKXR/	0580	1.625	11.9

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
WKTY	0580	9.152	100.0
580CKPR/	0580	6.107	66.7
-------	50%	-------	
580CKUA/	0580	3.770	34.2
***KIDO-PRO**	**0580**	**3.701**	**31.8**
CFRA/	0580	3.497	28.6
WIBW	0580	3.274	25.7
-------	25%	-------	
KUBC	0580	2.780	21.2
KZMX	0580	2.589	19.3
580CKXR/	0580	1.625	11.9

Protected Station: 580CKPR/ , 580 kHz - Thunder Bay, ON, CA
Coordinates: 48-26-08 N, 089-20-41 W
Standard: Canadian (Figure 4) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
CFRA/	0580	10.066	100.0
-------	50%	-------	
-------	25%	-------	
580WINN/	0580	2.316	23.0
WIBW	0580	1.850	17.9
580CHLC/	0580	1.839	17.5
580CKUA/	0580	1.549	14.5
WCHS	0580	1.485	13.7
*KIDO	0580	1.433	13.1
KZMX	0580	1.409	12.8
WHP	0580	1.242	11.2

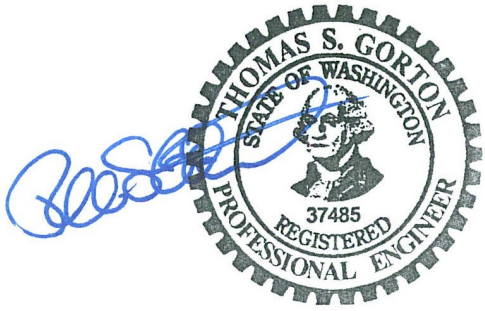
Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
CFRA/	0580	10.066	100.0
-------	50%	-------	
-------	25%	-------	
580WINN/	0580	2.316	23.0
WIBW	0580	1.850	17.9
580CHLC/	0580	1.839	17.5
580CKUA/	0580	1.549	14.5
WCHS	0580	1.485	13.7
KZMX	0580	1.409	12.9
***KIDO-PRO**	**0580**	**1.393**	**12.7**
WHP	0580	1.242	11.2

Statement of Engineer

This Engineering Report, relative to a change in facilities for KIDO(AM) has been prepared by the undersigned. All representations contained herein are true to the best of my knowledge. I am an experienced radio engineer whose qualifications are a matter of record with the Federal Communications Commission. I am an engineer in the firm of Hatfield and Dawson Consulting Engineers and am Registered as a Professional Engineer in the States of Washington and Oregon.

Signed this 25th Day of January 2024



Thomas S. Gorton, P.E.