

KHANNA & GULL, Inc. – CONSULTING ENGINEERS
Radio – Television

STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
660 kHz – 6 kW N/8 kW D – DA-2

*Exhibit 20 - Form 301, Section III-A AM Engineering
Technical Specifications*

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
 (Page 1 of 13)

Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	525.55	5.0	589.18	10.0	639.23
15.0	674.53	20.0	694.16	25.0	697.61
30.0	684.83	35.0	656.35	40.0	613.36
45.0	557.74	50.0	492.02	55.0	419.34
60.0	343.28	65.0	267.74	70.0	196.82
75.0	134.80	80.0	86.87	85.0	60.44
90.0	58.51	95.0	68.39	100.0	80.57
105.0	95.60	110.0	116.86	115.0	145.60
120.0	180.07	125.0	216.88	130.0	252.33
135.0	282.99	140.0	305.99	145.0	319.20
150.0	321.33	155.0	312.18	160.0	293.09
165.0	267.83	170.0	244.35	175.0	236.38
180.0	259.08	185.0	317.16	190.0	403.84
195.0	510.32	200.0	629.89	205.0	757.61
210.0	889.44	215.0	1021.68	220.0	1150.75
225.0	1273.10	230.0	1385.20	235.0	1483.64
240.0	1565.26	245.0	1627.27	250.0	1667.43
255.0	1684.23	260.0	1676.94	265.0	1645.72
270.0	1591.60	275.0	1516.38	280.0	1422.52
285.0	1312.95	290.0	1190.87	295.0	1059.53
300.0	922.07	305.0	781.39	310.0	640.07
315.0	500.43	320.0	364.74	325.0	236.19
330.0	124.65	335.0	90.37	340.0	169.76
345.0	268.45	350.0	363.31	355.0	449.73

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	517.33	5.0	580.34	10.0	629.89
15.0	664.83	20.0	684.27	25.0	687.70
30.0	675.07	35.0	646.94	40.0	604.49
45.0	549.56	50.0	484.67	55.0	412.91
60.0	337.82	65.0	263.25	70.0	193.25
75.0	132.08	80.0	84.97	85.0	59.47
90.0	58.33	95.0	68.44	100.0	80.43
105.0	94.93	110.0	115.38	115.0	143.17
120.0	176.68	125.0	212.58	130.0	247.22
135.0	277.22	140.0	299.73	145.0	312.64
150.0	314.70	155.0	305.77	160.0	287.24
165.0	262.98	170.0	241.08	175.0	235.18
180.0	259.74	185.0	318.70	190.0	405.31
195.0	511.11	200.0	629.68	205.0	756.21
210.0	886.73	215.0	1017.62	220.0	1145.33
225.0	1266.35	230.0	1377.21	235.0	1474.54
240.0	1555.20	245.0	1616.46	250.0	1656.12
255.0	1672.66	260.0	1665.40	265.0	1634.47
270.0	1580.89	275.0	1506.44	280.0	1413.54
285.0	1305.07	290.0	1184.20	295.0	1054.12
300.0	917.96	305.0	778.56	310.0	638.49
315.0	500.04	320.0	365.46	325.0	237.86
330.0	126.60	335.0	88.64	340.0	165.23
345.0	262.71	350.0	356.63	355.0	442.23

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 mV/m @ 1km

#	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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	493.06	5.0	554.24	10.0	602.34
15.0	636.23	20.0	655.10	25.0	658.47
30.0	646.34	35.0	619.25	40.0	578.36
45.0	525.48	50.0	463.02	55.0	393.97
60.0	321.73	65.0	250.02	70.0	182.73
75.0	124.08	80.0	79.46	85.0	56.87
90.0	58.09	95.0	68.82	100.0	80.27
105.0	93.27	110.0	111.38	115.0	136.37
120.0	167.02	125.0	200.23	130.0	232.50
135.0	260.53	140.0	281.59	145.0	293.66
150.0	295.58	155.0	287.35	160.0	270.56
165.0	249.40	170.0	232.29	175.0	232.45
180.0	262.17	185.0	323.38	190.0	409.57
195.0	513.31	200.0	628.88	205.0	751.87
210.0	878.53	215.0	1005.41	220.0	1129.10
225.0	1246.21	230.0	1353.41	235.0	1447.44
240.0	1525.31	245.0	1584.38	250.0	1622.54
255.0	1638.36	260.0	1631.16	265.0	1601.09
270.0	1549.10	275.0	1476.91	280.0	1386.83
285.0	1281.62	290.0	1164.31	295.0	1037.99
300.0	905.64	305.0	770.04	310.0	633.67
315.0	498.77	320.0	367.50	325.0	242.77
330.0	132.53	335.0	84.45	340.0	152.04
345.0	245.83	350.0	336.95	355.0	420.10

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	453.94	5.0	512.19	10.0	557.94
15.0	590.18	20.0	608.15	25.0	611.45
30.0	600.13	35.0	574.73	40.0	536.37
45.0	486.78	50.0	428.22	55.0	363.51
60.0	295.85	65.0	228.70	70.0	165.79
75.0	111.27	80.0	70.92	85.0	53.55
90.0	58.55	95.0	70.16	100.0	80.85
105.0	91.65	110.0	106.15	115.0	126.68
120.0	152.67	125.0	181.52	130.0	209.94
135.0	234.82	140.0	253.60	145.0	264.39
150.0	266.24	155.0	259.37	160.0	245.74
165.0	230.04	170.0	221.02	175.0	230.58
180.0	267.42	185.0	331.21	190.0	416.17
195.0	516.34	200.0	626.95	205.0	744.17
210.0	864.59	215.0	984.99	220.0	1102.19
225.0	1213.02	230.0	1314.32	235.0	1403.07
240.0	1476.45	245.0	1532.01	250.0	1567.79
255.0	1582.44	260.0	1575.36	265.0	1546.66
270.0	1497.24	275.0	1428.69	280.0	1343.15
285.0	1243.19	290.0	1131.63	295.0	1011.37
300.0	885.21	305.0	755.78	310.0	625.44
315.0	496.32	320.0	370.48	325.0	250.50
330.0	142.58	335.0	80.97	340.0	131.51
345.0	218.80	350.0	305.27	355.0	384.45

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	401.93	5.0	456.27	10.0	498.93
15.0	529.00	20.0	545.83	25.0	549.10
30.0	538.89	35.0	515.76	40.0	480.77
45.0	435.53	50.0	382.14	55.0	323.16
60.0	261.51	65.0	200.41	70.0	143.34
75.0	94.51	80.0	60.62	85.0	51.21
90.0	60.82	95.0	73.32	100.0	83.20
105.0	91.59	110.0	101.82	115.0	116.64
120.0	136.45	125.0	159.40	130.0	182.67
135.0	203.40	140.0	219.25	145.0	228.57
150.0	230.68	155.0	226.16	160.0	217.49
165.0	209.93	170.0	211.89	175.0	232.56
180.0	276.47	185.0	341.88	190.0	424.28
195.0	519.25	200.0	623.06	205.0	732.48
210.0	844.52	215.0	956.28	220.0	1064.85
225.0	1167.32	230.0	1260.81	235.0	1342.57
240.0	1410.02	245.0	1460.95	250.0	1493.59
255.0	1506.73	260.0	1499.81	265.0	1472.95
270.0	1426.94	275.0	1363.21	280.0	1283.70
285.0	1190.73	290.0	1086.85	295.0	974.70
300.0	856.84	305.0	735.71	310.0	613.51
315.0	492.22	320.0	373.77	325.0	260.38
330.0	156.57	335.0	83.02	340.0	106.35
345.0	183.40	350.0	263.34	355.0	337.10

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	339.71	5.0	389.32	10.0	428.30
15.0	455.82	20.0	471.34	25.0	474.63
30.0	465.82	35.0	445.45	40.0	414.51
45.0	374.46	50.0	327.21	55.0	275.02
60.0	220.53	65.0	166.65	70.0	116.70
75.0	75.29	80.0	51.04	85.0	52.12
90.0	65.89	95.0	78.98	100.0	88.18
105.0	94.57	110.0	100.83	115.0	109.69
120.0	122.45	125.0	138.39	130.0	155.46
135.0	171.30	140.0	183.87	145.0	191.86
150.0	194.95	155.0	194.23	160.0	192.69
165.0	195.62	170.0	209.78	175.0	240.58
180.0	289.43	185.0	354.47	190.0	432.60
195.0	520.75	200.0	616.09	205.0	715.99
210.0	817.89	215.0	919.22	220.0	1017.42
225.0	1109.88	230.0	1194.05	235.0	1267.47
240.0	1327.89	245.0	1373.34	250.0	1402.27
255.0	1413.64	260.0	1406.94	265.0	1382.28
270.0	1340.36	275.0	1282.42	280.0	1210.14
285.0	1125.55	290.0	1030.92	295.0	928.56
300.0	820.79	305.0	709.77	310.0	597.51
315.0	485.86	320.0	376.53	325.0	271.44
330.0	173.74	335.0	94.26	340.0	82.13
345.0	142.37	350.0	213.58	355.0	280.57

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	270.59	5.0	314.84	10.0	349.70
15.0	374.41	20.0	388.54	25.0	391.92
30.0	384.72	35.0	367.46	40.0	341.05
45.0	306.79	50.0	266.32	55.0	221.67
60.0	175.13	65.0	129.38	70.0	87.85
75.0	56.52	80.0	46.58	85.0	57.92
90.0	74.11	95.0	87.31	100.0	96.08
105.0	101.30	110.0	104.90	115.0	109.06
120.0	115.41	125.0	124.31	130.0	134.87
135.0	145.57	140.0	154.96	145.0	162.20
150.0	167.41	155.0	172.09	160.0	179.20
165.0	192.90	170.0	217.25	175.0	254.59
180.0	305.05	185.0	367.31	190.0	439.42
195.0	519.28	200.0	604.79	205.0	693.83
210.0	784.25	215.0	873.87	220.0	960.44
225.0	1041.73	230.0	1115.52	235.0	1179.70
240.0	1232.33	245.0	1271.74	250.0	1296.61
255.0	1306.05	260.0	1299.64	265.0	1277.47
270.0	1240.12	275.0	1188.63	280.0	1124.44
285.0	1049.27	290.0	965.04	295.0	873.75
300.0	777.41	305.0	677.92	310.0	577.07
315.0	476.49	320.0	377.74	325.0	282.42
330.0	192.74	335.0	114.01	340.0	70.11
345.0	100.42	350.0	159.36	355.0	218.08

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	198.58	5.0	236.89	10.0	267.28
15.0	289.02	20.0	301.71	25.0	305.25
30.0	299.80	35.0	285.87	40.0	264.25
45.0	236.05	50.0	202.73	55.0	166.00
60.0	127.96	65.0	91.27	70.0	60.32
75.0	44.48	80.0	51.30	85.0	68.41
90.0	85.01	95.0	97.83	100.0	106.39
105.0	111.34	110.0	113.95	115.0	115.76
120.0	118.17	125.0	122.00	130.0	127.39
135.0	133.90	140.0	140.94	145.0	148.30
150.0	156.47	155.0	166.82	160.0	181.48
165.0	202.84	170.0	232.77	175.0	272.16
180.0	320.90	185.0	378.17	190.0	442.74
195.0	513.17	200.0	587.86	205.0	665.15
210.0	743.27	215.0	820.39	220.0	894.63
225.0	964.11	230.0	1026.96	235.0	1081.44
240.0	1125.93	245.0	1159.05	250.0	1179.72
255.0	1187.20	260.0	1181.15	265.0	1161.64
270.0	1129.15	275.0	1084.51	280.0	1028.91
285.0	963.75	290.0	890.63	295.0	811.22
300.0	727.21	305.0	640.21	310.0	551.78
315.0	463.35	320.0	376.27	325.0	291.87
330.0	211.73	335.0	138.56	340.0	80.70
345.0	68.07	350.0	105.74	355.0	153.73

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
 (Page 9 of 13)

Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	128.63	5.0	160.13	10.0	185.68
15.0	204.28	20.0	215.48	25.0	219.17
30.0	215.51	35.0	204.94	40.0	188.15
45.0	166.09	50.0	140.00	55.0	111.47
60.0	82.63	65.0	57.09	70.0	42.61
75.0	47.51	80.0	63.99	85.0	81.94
90.0	97.53	95.0	109.59	100.0	118.02
105.0	123.27	110.0	126.19	115.0	127.81
120.0	129.15	125.0	131.10	130.0	134.20
135.0	138.77	140.0	144.96	145.0	153.07
150.0	163.68	155.0	177.74	160.0	196.40
165.0	220.77	170.0	251.67	175.0	289.43
180.0	333.89	185.0	384.52	190.0	440.48
195.0	500.75	200.0	564.12	205.0	629.26
210.0	694.77	215.0	759.16	220.0	820.90
225.0	878.46	230.0	930.34	235.0	975.11
240.0	1011.48	245.0	1038.37	250.0	1054.90
255.0	1060.50	260.0	1054.89	265.0	1038.12
270.0	1010.56	275.0	972.89	280.0	926.01
285.0	871.07	290.0	809.32	295.0	742.11
300.0	670.83	305.0	596.81	310.0	521.35
315.0	445.67	320.0	370.91	325.0	298.18
330.0	228.66	335.0	163.85	340.0	106.66
345.0	66.08	350.0	64.07	355.0	93.69

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
 (Page 10 of 13)

Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	69.40	5.0	90.95	10.0	110.47
15.0	125.42	20.0	134.87	25.0	138.58
30.0	136.60	35.0	129.28	40.0	117.22
45.0	101.28	50.0	82.69	55.0	63.35
60.0	46.79	65.0	39.92	70.0	47.37
75.0	63.00	80.0	80.33	85.0	96.50
90.0	110.32	95.0	121.33	100.0	129.55
105.0	135.29	110.0	139.10	115.0	141.69
120.0	143.80	125.0	146.16	130.0	149.41
135.0	154.07	140.0	160.61	145.0	169.51
150.0	181.29	155.0	196.53	160.0	215.84
165.0	239.72	170.0	268.51	175.0	302.28
180.0	340.88	185.0	383.90	190.0	430.74
195.0	480.61	200.0	532.62	205.0	585.74
210.0	638.86	215.0	690.82	220.0	740.42
225.0	786.46	230.0	827.77	235.0	863.24
240.0	891.89	245.0	912.87	250.0	925.53
255.0	929.41	260.0	924.31	265.0	910.26
270.0	887.55	275.0	856.68	280.0	818.34
285.0	773.40	290.0	722.84	295.0	667.70
300.0	609.06	305.0	548.00	310.0	485.58
315.0	422.78	320.0	360.55	325.0	299.79
330.0	241.40	335.0	186.33	340.0	135.85
345.0	92.20	350.0	61.02	355.0	53.91

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
 (Page 11 of 13)

Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	49.11	5.0	46.69	10.0	52.97
15.0	61.08	20.0	67.31	25.0	70.27
30.0	69.60	35.0	65.47	40.0	58.49
45.0	49.84	50.0	41.74	55.0	37.92
60.0	41.85	65.0	52.62	70.0	66.84
75.0	82.03	80.0	96.77	85.0	110.22
90.0	121.91	95.0	131.65	100.0	139.45
105.0	145.53	110.0	150.24	115.0	154.05
120.0	157.50	125.0	161.11	130.0	165.45
135.0	170.99	140.0	178.21	145.0	187.54
150.0	199.39	155.0	214.15	160.0	232.13
165.0	253.58	170.0	278.62	175.0	307.23
180.0	339.23	185.0	374.31	190.0	412.01
195.0	451.75	200.0	492.85	205.0	534.53
210.0	575.97	215.0	616.29	220.0	654.58
225.0	689.94	230.0	721.50	235.0	748.45
240.0	770.05	245.0	785.68	250.0	794.87
255.0	797.28	260.0	792.76	265.0	781.34
270.0	763.23	275.0	738.77	280.0	708.48
285.0	673.00	290.0	633.03	295.0	589.38
300.0	542.85	305.0	494.26	310.0	444.45
315.0	394.18	320.0	344.20	325.0	295.24
330.0	247.98	335.0	203.08	340.0	161.26
345.0	123.33	350.0	90.44	355.0	64.55

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
 (Page 12 of 13)

Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	77.45	5.0	61.79	10.0	50.67
15.0	43.83	20.0	40.26	25.0	38.57
30.0	37.75	35.0	37.52	40.0	38.37
45.0	41.15	50.0	46.50	55.0	54.40
60.0	64.35	65.0	75.62	70.0	87.50
75.0	99.39	80.0	110.79	85.0	121.35
90.0	130.82	95.0	139.11	100.0	146.22
105.0	152.28	110.0	157.52	115.0	162.24
120.0	166.77	125.0	171.50	130.0	176.82
135.0	183.09	140.0	190.67	145.0	199.89
150.0	211.03	155.0	224.34	160.0	239.99
165.0	258.11	170.0	278.71	175.0	301.75
180.0	327.07	185.0	354.42	190.0	383.45
195.0	413.74	200.0	444.79	205.0	476.06
210.0	506.94	215.0	536.80	220.0	564.99
225.0	590.87	230.0	613.83	235.0	633.30
240.0	648.75	245.0	659.77	250.0	666.01
255.0	667.25	260.0	663.38	265.0	654.42
270.0	640.51	275.0	621.89	280.0	598.93
285.0	572.05	290.0	541.77	295.0	508.65
300.0	473.27	305.0	436.23	310.0	398.15
315.0	359.60	320.0	321.17	325.0	283.37
330.0	246.75	335.0	211.77	340.0	178.90
345.0	148.59	350.0	121.29	355.0	97.42

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 6 kW NIGHTTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
SEPTEMBER 2006
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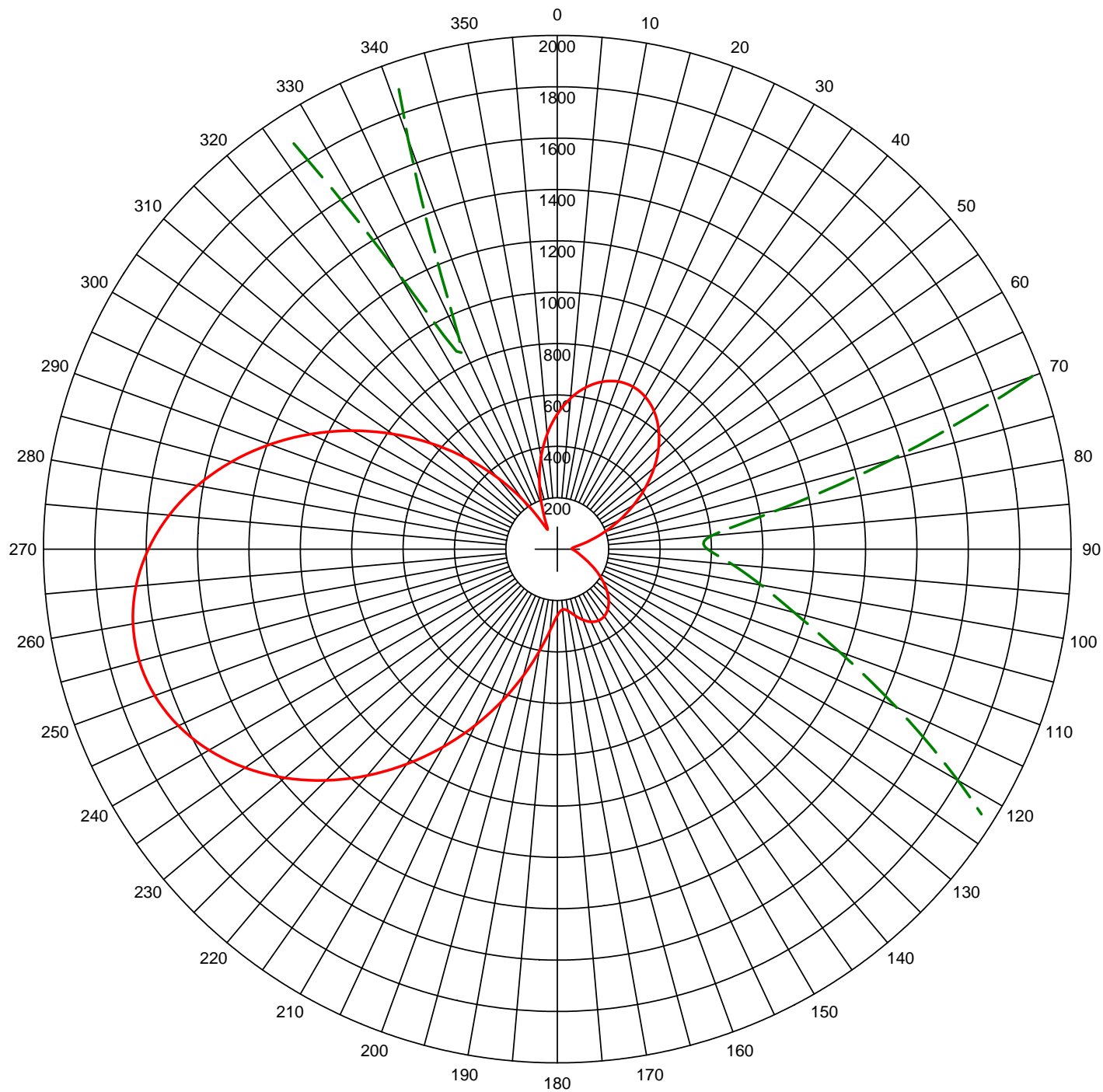
Call: KGDP (Proposed)
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 mV/m @ 1km

#	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	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	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	108.05	5.0	94.35	10.0	83.20
15.0	74.59	20.0	68.41	25.0	64.51
30.0	62.72	35.0	62.89	40.0	64.87
45.0	68.52	50.0	73.66	55.0	80.04
60.0	87.38	65.0	95.39	70.0	103.75
75.0	112.16	80.0	120.38	85.0	128.22
90.0	135.53	95.0	142.26	100.0	148.40
105.0	154.02	110.0	159.26	115.0	164.28
120.0	169.29	125.0	174.54	130.0	180.24
135.0	186.66	140.0	194.01	145.0	202.51
150.0	212.33	155.0	223.61	160.0	236.45
165.0	250.90	170.0	266.95	175.0	284.53
180.0	303.53	185.0	323.75	190.0	344.95
195.0	366.83	200.0	389.06	205.0	411.25
210.0	433.00	215.0	453.89	220.0	473.47
225.0	491.33	230.0	507.05	235.0	520.26
240.0	530.62	245.0	537.86	250.0	541.74
255.0	542.13	260.0	538.96	265.0	532.24
270.0	522.05	275.0	508.56	280.0	492.00
285.0	472.66	290.0	450.88	295.0	427.03
300.0	401.51	305.0	374.74	310.0	347.14
315.0	319.12	320.0	291.08	325.0	263.42
330.0	236.50	335.0	210.68	340.0	186.26
345.0	163.55	350.0	142.80	355.0	124.24

AM Directional Pattern



Theo RMS: 762.953 mV/m@1km
 Std RMS: 801.527 mV/m@1km
 Q: 24.893 mV/m@1km

Horizontal Plane Standard Pattern

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

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	80.0	0	0	0.0	0.0	0.0	0.0
2	0.878	82.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	1.186	240.6	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.842	323.8	181.9	173.4	80.0	0	0	0.0	0.0	0.0	0.0

Call: NEWKGDP
 Freq: 660 kHz
 OILDALE, CA, US
 Lat: 35-27-10 N
 Lng: 118-56-40 W
 Power: 6.0 kW
 Theo RMS: 762.95 mV/m @ 1km