

STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
660 kHz – 2.5 kW N/2.5 kW D – DA-2

*Exhibit 19 - Form 301, Section III-A AM Engineering
Technical Specifications*

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
STANDARD HORIZONTAL PLANE PATTERN
FOR THE PROPOSED 2.5 kW DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004
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Call: KGDPpro Frequency: 660.0 kHz
Power: 2.500 kW
ERSS: 608.80 mV/m at 1 km
Multiplying Constant (K factor): 385.23 mV/m at 1 km
Q Factor (elevation angle = 0 degrees): 15.81
Theoretical Pattern RMS: 472.58 mV/m at 1 km
Standard Pattern RMS: 496.49 mV/m at 1 km

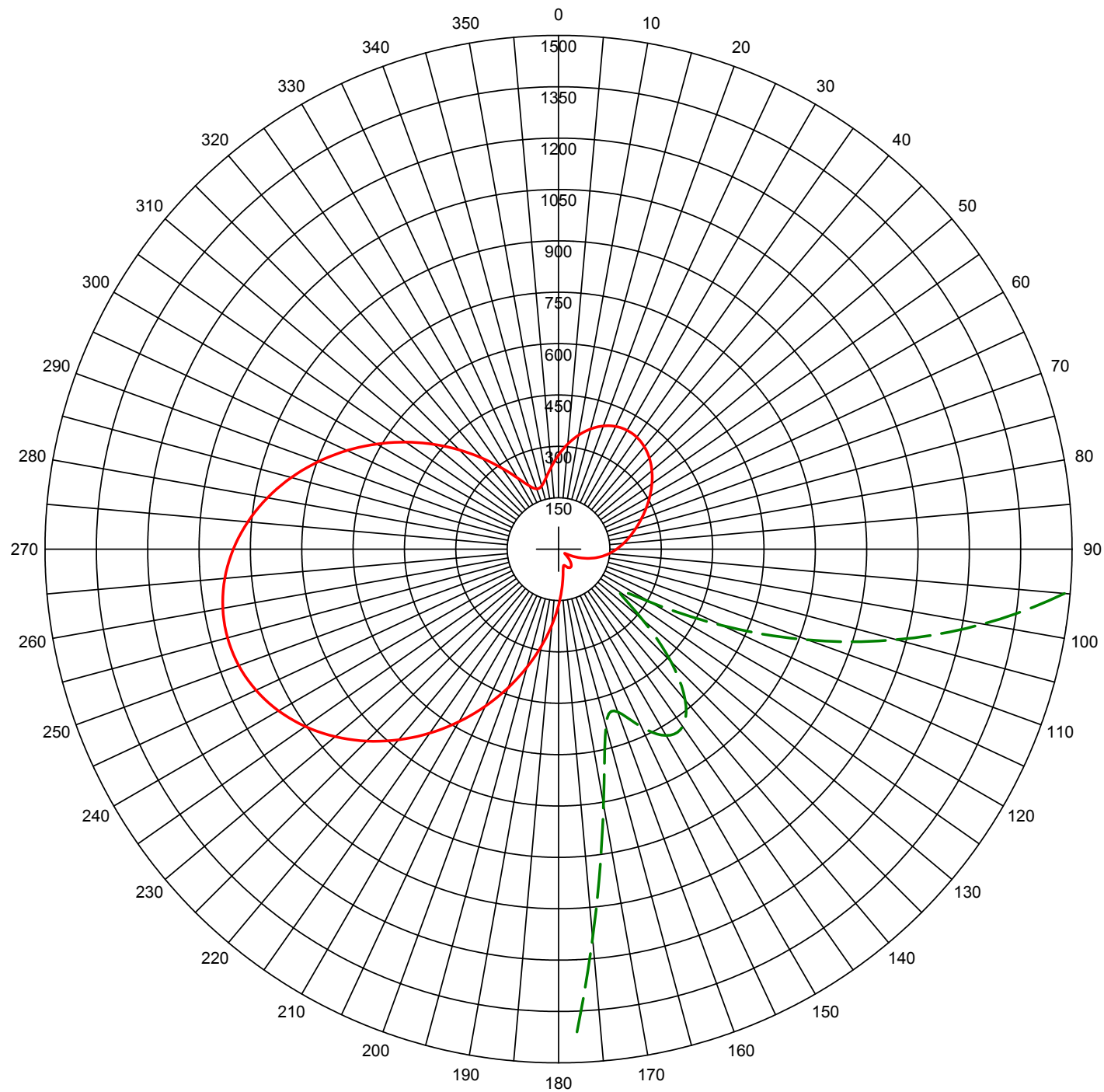
ANTENNA TOWER PARAMETERS:

##	Field Ratio	Phase (deg.)	Spac. (deg.)	Bear. (deg.)	TL SW	HT (deg.)	TLA (deg.)	TLB (deg.)	TLC (deg.)	TLD (deg.)
1	1.000	.0	.0	.0	0	80.0	.0	.0	.0	.0
2	.682	-137.5	90.0	198.0	0	80.0	.0	.0	.0	.0
3	.855	59.0	120.0	141.0	0	80.0	.0	.0	.0	.0
4	.549	-30.0	162.6	174.0	0	80.0	.0	.0	.0	.0

CALCULATED STANDARD PATTERN DATA:

Azimuth (deg.)	Elevation Angle (0 deg.)	Azimuth (deg.)	Elevation Angle (0 deg.)	Azimuth (deg.)	Elevation Angle (0 deg.)
.0	274.72	120.0	30.97	240.0	944.27
5.0	307.90	125.0	21.57	245.0	974.94
10.0	338.05	130.0	31.98	250.0	994.02
15.0	363.38	135.0	46.44	255.0	1000.99
20.0	382.69	140.0	57.54	260.0	995.73
25.0	395.21	145.0	63.21	265.0	978.51
30.0	400.53	150.0	62.85	270.0	950.00
35.0	398.69	155.0	57.27	275.0	911.19
40.0	390.07	160.0	50.58	280.0	863.38
45.0	375.45	165.0	53.46	285.0	808.07
50.0	355.94	170.0	75.59	290.0	746.89
55.0	332.92	175.0	114.14	295.0	681.50
60.0	307.87	180.0	164.03	300.0	613.53
65.0	282.24	185.0	222.41	305.0	544.52
70.0	257.22	190.0	287.40	310.0	475.97
75.0	233.55	195.0	357.43	315.0	409.33
80.0	211.38	200.0	430.92	320.0	346.23
85.0	190.32	205.0	506.29	325.0	288.77
90.0	169.59	210.0	581.87	330.0	240.02
95.0	148.35	215.0	655.94	335.0	204.48
100.0	125.97	220.0	726.77	340.0	187.38
105.0	102.23	225.0	792.63	345.0	190.91
110.0	77.48	230.0	851.85	350.0	211.18
115.0	52.81	235.0	902.85	355.0	241.12

AM Directional Pattern



Theo RMS: 472.583 mV/m@1km
Std RMS: 496.49 mV/m@1km
Q: 15.811 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	0.682	-137.5	90.0	198.0	80.0	0	0	0.0	0.0	0.0	0.0
3	0.855	59.0	120.0	141.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.549	-30.0	162.6	174.0	80.0	0	0	0.0	0.0	0.0	0.0

Call: NEWKGD
Freq: 660 kHz
OILDALE, CA, US
Lat: 35-27-11 N
Lng: 118-56-35 W
Power: 2.5 kW
Theo RMS: 472.58 mV/m @ 1km