

KHANNA & GULL, Inc. – Consulting Engineers  
Radio – Television

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

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

TABULATION OF  
STANDARD HORIZONTAL PLANE PATTERN  
FOR THE PROPOSED 8 kW DAYTIME OPERATION OF  
KGDP, OILDALE, CALIFORNIA  
SEPTEMBER 2006

Call: KGDP (Proposed)  
 Freq: 660 kHz  
 OILDALE, CA, US  
 Lat: 35-27-10 N  
 Lng: 118-56-40 W  
 Power: 8.0 kW  
 Theo RMS: 850.21 mV/m @ 1km

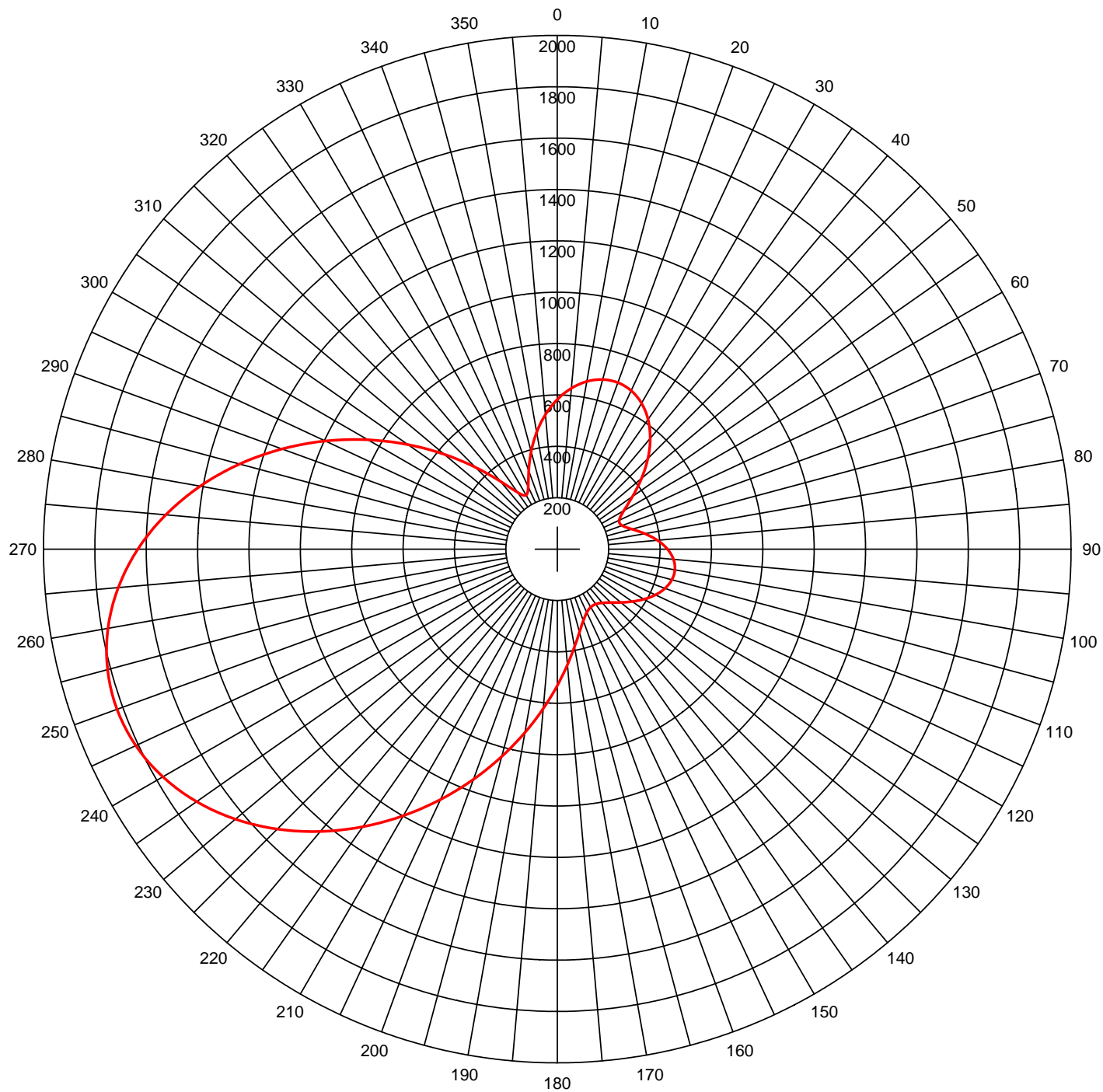
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	80.0	0	0	0.0	0.0	0.0	0.0
2	0.700	60.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	0.600	240.0	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.683	307.0	181.9	173.4	80.0	0	0	0.0	0.0	0.0	0.0

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Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	582.40	5.0	628.55	10.0	662.79
15.0	683.62	20.0	689.86	25.0	680.74
30.0	656.05	35.0	616.30	40.0	562.98
45.0	498.81	50.0	428.21	55.0	358.13
60.0	299.32	65.0	266.11	70.0	268.51
75.0	300.57	80.0	346.18	85.0	391.75
90.0	429.12	95.0	454.04	100.0	464.88
105.0	461.85	110.0	446.53	115.0	421.54
120.0	390.16	125.0	356.05	130.0	322.94
135.0	294.30	140.0	273.06	145.0	261.40
150.0	260.79	155.0	272.20	160.0	296.48
165.0	334.35	170.0	386.26	175.0	452.14
180.0	531.40	185.0	622.92	190.0	725.16
195.0	836.23	200.0	953.88	205.0	1075.57
210.0	1198.43	215.0	1319.32	220.0	1434.86
225.0	1541.50	230.0	1635.65	235.0	1713.85
240.0	1772.92	245.0	1810.19	250.0	1823.70
255.0	1812.34	260.0	1775.95	265.0	1715.41
270.0	1632.55	275.0	1530.06	280.0	1411.29
285.0	1280.03	290.0	1140.28	295.0	996.03
300.0	851.14	305.0	709.28	310.0	574.23
315.0	450.47	320.0	344.89	325.0	269.87
330.0	242.87	335.0	267.78	340.0	324.56
345.0	392.91	350.0	461.90	355.0	526.12

# AM Directional Pattern



Theo RMS: 850.213 mV/m@1km  
 Std RMS: 893.218 mV/m@1km  
 Q: 28.284 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	0.700	60.0	110.0	145.0	80.0	0	0	0.0	0.0	0.0	0.0
3	0.600	240.0	100.0	205.0	80.0	0	0	0.0	0.0	0.0	0.0
4	0.683	307.0	181.9	173.4	80.0	0	0	0.0	0.0	0.0	0.0

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 OILDALE, CA, US  
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