

KRBK Distributed Transmission System  
Channel 22 – Osage Beach, MO  
Site #2 of Five Total Sites  
Antenna Specifications  
June, 2017

## DIRECTIONAL ANTENNA

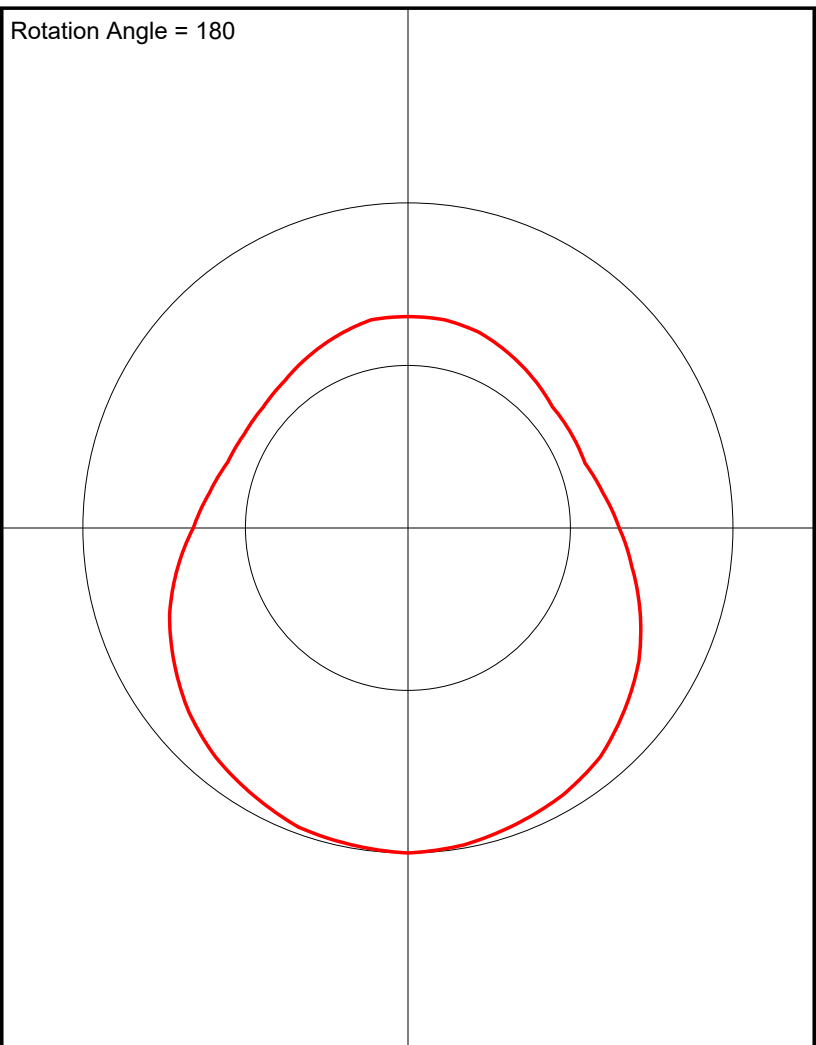
### AZIMUTH PATTERN and ELEVATION PATTERN In Relative Field

KRBK DTS 2 Antenna Pattern

Post-Rotation Antenna Pattern....

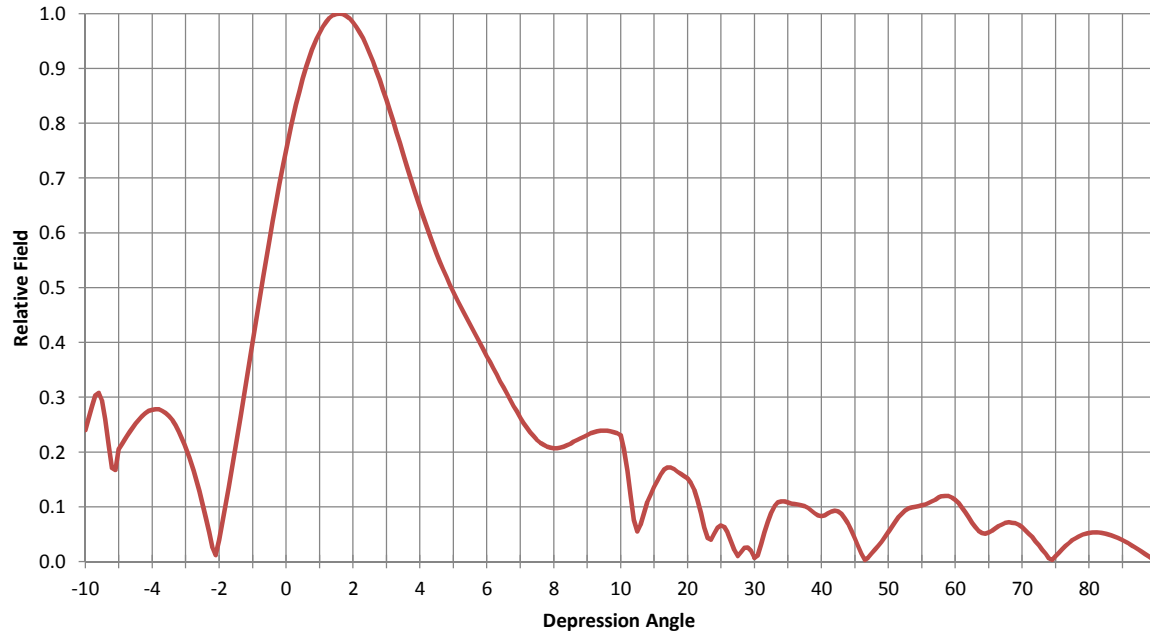
Azimuth (deg)	Relative Field
0.0	0.65
5.0	0.65
10.0	0.65
15.0	0.645
20.0	0.64
25.0	0.63
30.0	0.62
35.0	0.61
40.0	0.6
45.0	0.59
50.0	0.58
55.0	0.58
60.0	0.58
65.0	0.58
70.0	0.58
75.0	0.595
80.0	0.61
85.0	0.63
90.0	0.65
95.0	0.675
100.0	0.7
105.0	0.73
110.0	0.76
115.0	0.79
120.0	0.82
125.0	0.845
130.0	0.87
135.0	0.895
140.0	0.92
145.0	0.935
150.0	0.95
155.0	0.96
160.0	0.97
165.0	0.98
170.0	0.99
175.0	0.995
180.0	1.0
185.0	0.995
190.0	0.99
195.0	0.985
200.0	0.98
205.0	0.965
210.0	0.95
215.0	0.935
220.0	0.92
225.0	0.9
230.0	0.88
235.0	0.855
240.0	0.83
245.0	0.805
250.0	0.78
255.0	0.75
260.0	0.72
265.0	0.69
270.0	0.66
275.0	0.64
280.0	0.62
285.0	0.605
290.0	0.59
295.0	0.585
300.0	0.58
305.0	0.58
310.0	0.58
315.0	0.585

Rotation Angle = 180



320.0	0.59
325.0	0.6
330.0	0.61
335.0	0.62
340.0	0.63
345.0	0.64
350.0	0.65
355.0	0.65

## KRBK Ch 22 DTS Site 2 & Site 5 Elevation Relative Field Values



Depression Angle	Relative Field	ERP Site 2 (kW)	ERP Site 5 (kW)
-10.0	0.240	1.43	1.46
-5.0	0.205	1.05	1.07
0.0	0.751	14.04	14.33
0.5	0.881	19.33	19.71
1.0	0.965	23.19	23.65
1.5	0.999	24.85	25.35
2.0	0.984	24.11	24.59
2.5	0.928	21.44	21.87
3.0	0.843	17.70	18.05
3.5	0.744	13.78	14.06
4.0	0.647	10.42	10.63
4.5	0.562	7.86	8.02
5.0	0.492	6.03	6.15
5.5	0.432	4.65	4.74
6.0	0.375	3.50	3.57
6.5	0.318	2.52	2.57
7.0	0.263	1.72	1.76
7.5	0.222	1.23	1.25
8.0	0.207	1.07	1.09
8.5	0.215	1.15	1.17
9.0	0.231	1.33	1.36
9.5	0.239	1.42	1.45
10.0	0.231	1.33	1.36

Depression Angle	Relative Field	ERP Site 2 (kW)	ERP Site 5 (dBk)
10.5	0.205	1.05	1.07
11.0	0.166	0.69	0.70
11.5	0.120	0.36	0.37
12.0	0.076	0.14	0.15
12.5	0.055	0.08	0.08
13.0	0.067	0.11	0.11
13.5	0.089	0.20	0.20
14.0	0.109	0.30	0.30
14.5	0.123	0.38	0.38
15.0	0.136	0.46	0.47
15.5	0.148	0.55	0.56
16.0	0.159	0.63	0.64
16.5	0.168	0.70	0.72
17.0	0.172	0.74	0.75
17.5	0.172	0.74	0.75
18.0	0.169	0.71	0.73
18.5	0.164	0.67	0.68
19.0	0.160	0.64	0.65
19.5	0.156	0.61	0.62
20.0	0.152	0.58	0.59
20.5	0.144	0.52	0.53
21.0	0.131	0.43	0.44
21.5	0.112	0.31	0.32