

KRBK Distributed Transmission System
Channel 22 – Osage Beach, MO
Site #3 of Five Total Sites
Antenna Specifications
June, 2017

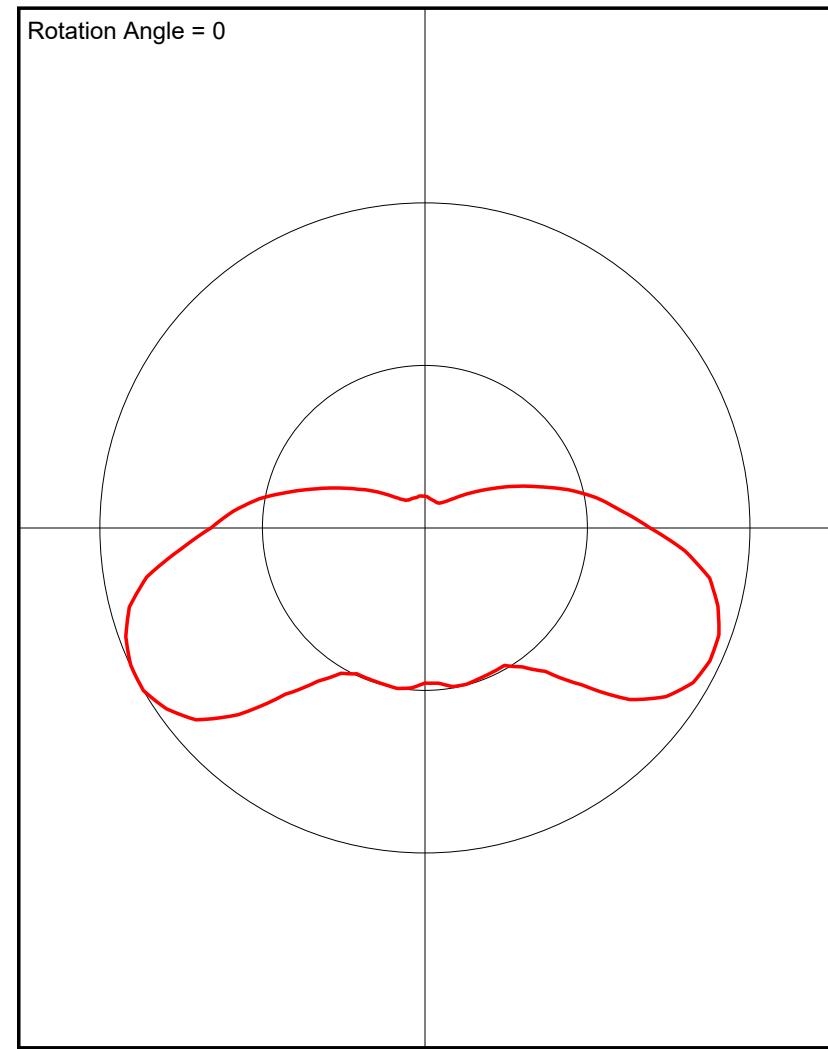
DIRECTIONAL ANTENNA

AZIMUTH PATTERN
and
ELEVATION PATTERN
In Relative Field

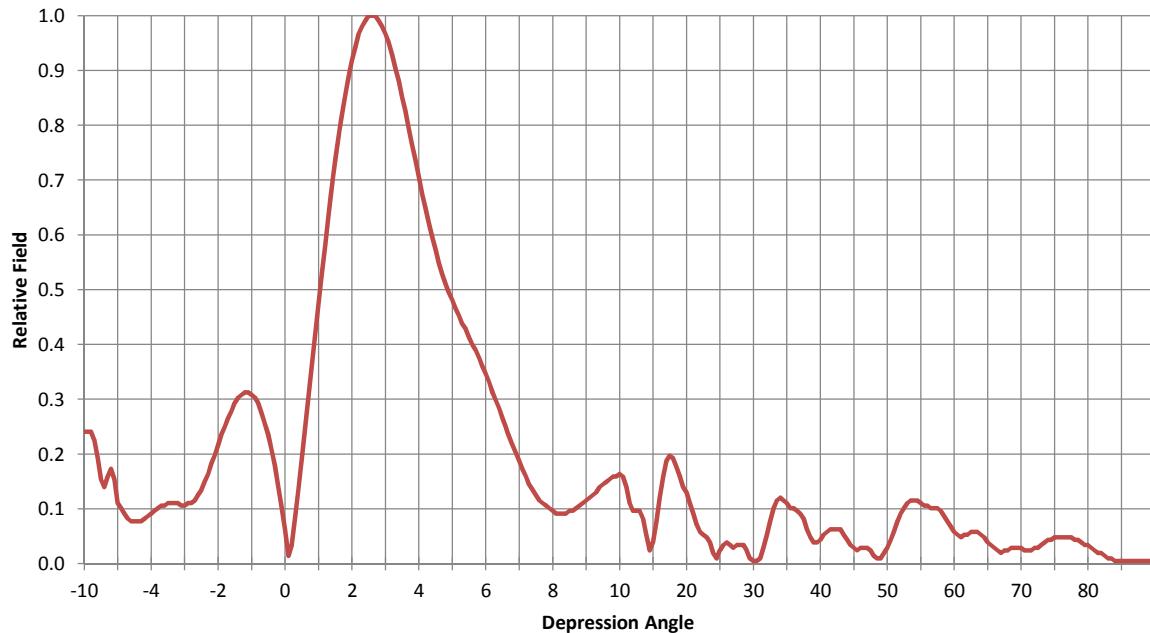
KRBK Site 3 Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.0973
5.0	0.0954
10.0	0.0908
15.0	0.0891
20.0	0.0875
25.0	0.0858
30.0	0.0879
35.0	0.0957
40.0	0.1088
45.0	0.1289
50.0	0.1587
55.0	0.1958
60.0	0.2426
65.0	0.3025
70.0	0.37
75.0	0.4545
80.0	0.5356
85.0	0.6057
90.0	0.6928
95.0	0.8021
100.0	0.8892
105.0	0.9332
110.0	0.9624
115.0	0.9671
120.0	0.9521
125.0	0.9048
130.0	0.8213
135.0	0.6825
140.0	0.5758
145.0	0.5217
150.0	0.4884
155.0	0.4901
160.0	0.4923
165.0	0.4976
170.0	0.4955
175.0	0.4792
180.0	0.477
185.0	0.4944
190.0	0.5011
195.0	0.4968
200.0	0.4958
205.0	0.4951
210.0	0.516
215.0	0.5756
220.0	0.6679
225.0	0.8126
230.0	0.9184
235.0	0.9703
240.0	1.0
245.0	0.9985
250.0	0.9793
255.0	0.9411
260.0	0.8689
265.0	0.7543
270.0	0.6581
275.0	0.5915
280.0	0.5169
285.0	0.4282
290.0	0.3524
295.0	0.2901
300.0	0.2377
305.0	0.1989
310.0	0.1634
315.0	0.135



KRBK Ch 22 DTS Site 3
Elevation Relative Field Values



Depression Angle	Relative Field	Site 3 ERP (kW)
-10.0	0.240	0.43
-5.0	0.111	0.09
0.0	0.063	0.03
0.5	0.192	0.28
1.0	0.476	1.69
1.5	0.736	4.04
2.0	0.918	6.29
2.5	1.000	7.46
3.0	0.966	6.97
3.5	0.851	5.40
4.0	0.707	3.73
4.5	0.572	2.44
5.0	0.481	1.72
5.5	0.414	1.28
6.0	0.346	0.89
6.5	0.264	0.52
7.0	0.188	0.26
7.5	0.125	0.12
8.0	0.096	0.07
8.5	0.096	0.07
9.0	0.115	0.10
9.5	0.144	0.16
10.0	0.164	0.20

Depression Angle	Relative Field	Site 3 ERP (kW)
10.5	0.159	0.19
11.0	0.139	0.14
11.5	0.111	0.09
12.0	0.096	0.07
12.5	0.096	0.07
13.0	0.096	0.07
13.5	0.082	0.05
14.0	0.053	0.02
14.5	0.024	0.00
15.0	0.039	0.01
15.5	0.077	0.04
16.0	0.120	0.11
16.5	0.159	0.19
17.0	0.188	0.26
17.5	0.197	0.29
18.0	0.192	0.28
18.5	0.178	0.24
19.0	0.159	0.19
19.5	0.139	0.14
20.0	0.130	0.13
20.5	0.111	0.09
21.0	0.091	0.06
21.5	0.072	0.04