



W287CF Bristol, Tennessee (Facility ID # 157963)  
 Licensee - Bristol Broadcasting Company, Inc.

Application to Modify Construction Permit

**Figure 3**

**Directional Antenna Horizontal Pattern**

**BOULDIN  
ENGINEERING**

22299 Campground Road, Bristol, Virginia 24202  
 Telephone (423) 794-0857

Azim	Rel.FS	ERP [W]	dBk
0.0	1.000	250.000	-6.021
5.0	1.000	250.000	-6.021
10.0	1.000	250.000	-6.021
15.0	1.000	250.000	-6.021
20.0	1.000	250.000	-6.021
25.0	1.000	250.000	-6.021
30.0	1.000	250.000	-6.021
35.0	1.000	250.000	-6.021
40.0	1.000	250.000	-6.021
45.0	1.000	250.000	-6.021
50.0	1.000	250.000	-6.021
55.0	1.000	250.000	-6.021
60.0	1.000	250.000	-6.021
65.0	0.994	247.009	-6.073
70.0	0.988	244.036	-6.125
75.0	0.947	224.202	-6.494
80.0	0.906	205.209	-6.878
85.0	0.841	176.820	-7.525

Azim	Rel.FS	ERP [W]	dBk
90.0	0.776	150.544	-8.223
95.0	0.680	115.600	-9.370
100.0	0.584	85.264	-10.692
105.0	0.463	53.592	-12.709
110.0	0.343	29.412	-15.315
115.0	0.302	22.801	-16.420
120.0	0.262	17.161	-17.655
125.0	0.247	15.252	-18.167
130.0	0.232	13.456	-18.711
135.0	0.219	11.990	-19.212
140.0	0.207	10.712	-19.701
145.0	0.198	9.801	-20.087
150.0	0.189	8.930	-20.491
155.0	0.187	8.742	-20.584
160.0	0.185	8.556	-20.677
165.0	0.178	7.921	-21.012
170.0	0.172	7.396	-21.310
175.0	0.173	7.482	-21.260

Azim	Rel.FS	ERP [W]	dBk
180.0	0.174	7.569	-21.210
185.0	0.170	7.225	-21.412
190.0	0.166	6.889	-21.618
195.0	0.178	7.921	-21.012
200.0	0.190	9.025	-20.446
205.0	0.186	8.649	-20.630
210.0	0.182	8.281	-20.819
215.0	0.181	8.190	-20.867
220.0	0.181	8.190	-20.867
225.0	0.192	9.216	-20.355
230.0	0.204	10.404	-19.828
235.0	0.217	11.772	-19.291
240.0	0.231	13.340	-18.748
245.0	0.270	18.225	-17.393
250.0	0.310	24.025	-16.193
255.0	0.366	33.489	-14.751
260.0	0.422	44.521	-13.514
265.0	0.549	75.350	-11.229

Azim	Rel.FS	ERP [W]	dBk
270.0	0.677	114.582	-9.409
275.0	0.730	133.225	-8.754
280.0	0.783	153.272	-8.145
285.0	0.799	159.600	-7.970
290.0	0.815	166.056	-7.797
295.0	0.841	176.820	-7.525
300.0	0.868	188.356	-7.250
305.0	0.911	207.480	-6.830
310.0	0.955	228.006	-6.421
315.0	0.977	238.632	-6.223
320.0	1.000	250.000	-6.021
325.0	1.000	250.000	-6.021
330.0	1.000	250.000	-6.021
335.0	1.000	250.000	-6.021
340.0	1.000	250.000	-6.021
345.0	1.000	250.000	-6.021
350.0	1.000	250.000	-6.021
355.0	1.000	250.000	-6.021