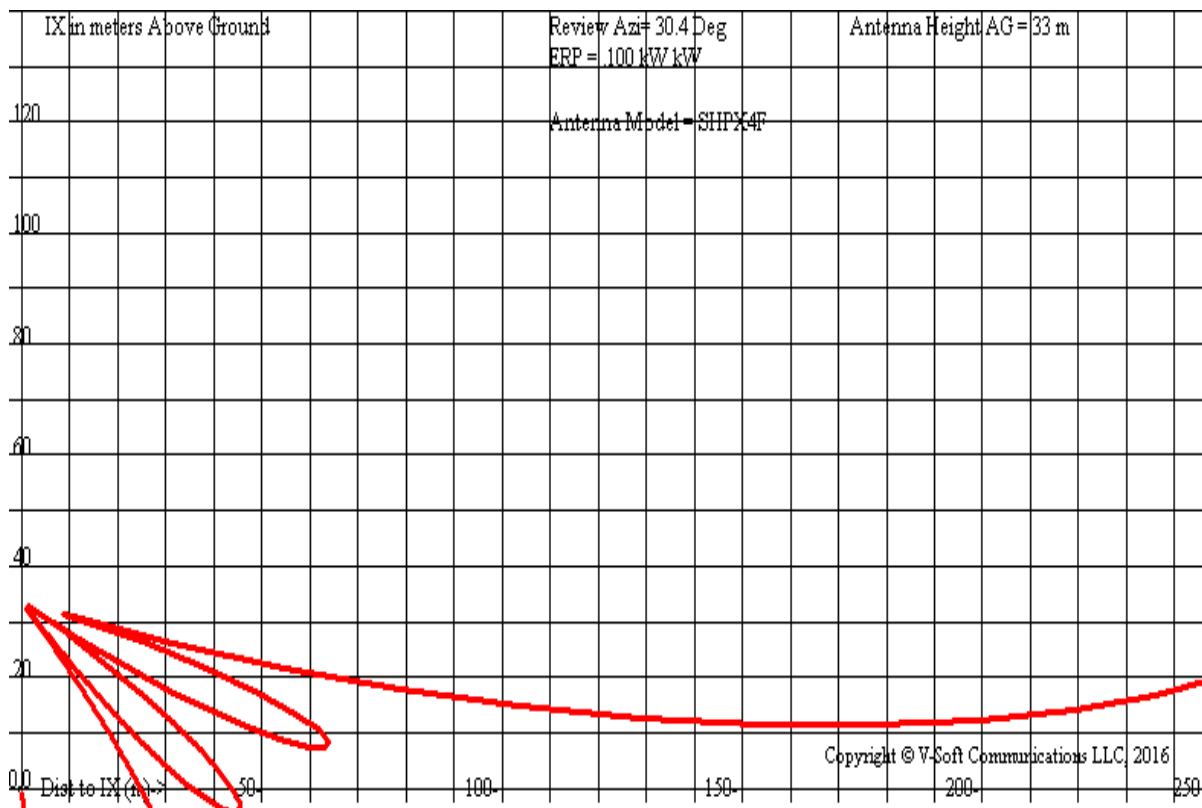


FARREN K. SHOAF MOCKSVILLE, NC

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1762063 Mocksville, NC, Showing Protection to WKKT
74.1204(d) Study - Using NGDC 30 SEC Terrain Database
Translator or LPFM Maximum Licensed ERP = 0.1
Translator or LPFM Antenna Height AG = 33 Meters
1762063 Antenna Model = SHPX4F

Protected Station's Contour = 68.18028 dBu
Translator's or LPFM's full Interference contour 108.18028

Review Azimuth = 30.4 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.1 kW
Distance between stations = 44.9 km
Protected Station= WKKT, 100 kW, 710 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.0	1.0	1.0	0.1000	273.5181	273.5181	033.000
01.0	0.992	1.0	0.0984	271.3299	271.2886	028.265
02.0	0.970	1.0	0.0941	265.3125	265.1509	023.741
03.0	0.933	1.0	0.0870	255.1924	254.8426	019.644
04.0	0.883	1.0	0.0780	241.5164	240.9281	016.153
05.0	0.821	1.0	0.0674	224.5583	223.7038	013.428
06.0	0.748	1.0	0.0560	204.5915	203.4707	011.614
07.0	0.667	1.0	0.0445	182.4365	181.0767	010.767
08.0	0.579	1.0	0.0335	158.3670	156.8257	010.960
09.0	0.487	1.0	0.0237	133.2033	131.5633	012.162
10.0	0.393	1.0	0.0154	107.4926	105.8595	014.334
11.0	0.299	1.0	0.0089	81.7819	80.2793	017.395
12.0	0.208	1.0	0.0043	56.8918	55.6485	021.172
13.0	0.121	1.0	0.0015	33.0957	32.2474	025.555
14.0	0.040	1.0	0.0002	10.9407	10.6157	030.353
15.0	0.033	1.0	0.0001	09.0261	08.7185	030.664
16.0	0.097	1.0	0.0009	026.5313	025.5035	025.687
17.0	0.150	1.0	0.0023	041.0277	039.2350	021.005
18.0	0.193	1.0	0.0037	052.7890	050.2053	016.687
19.0	0.225	1.0	0.0051	061.5416	058.1887	012.964
20.0	0.245	1.0	0.0060	067.0119	062.9706	010.081
21.0	0.255	1.0	0.0065	069.7471	065.1145	008.005
22.0	0.254	1.0	0.0065	069.4736	064.4148	006.975
23.0	0.244	1.0	0.0060	066.7384	061.4330	006.923
24.0	0.225	1.0	0.0051	061.5416	056.2210	007.969
25.0	0.198	1.0	0.0039	054.1566	049.0825	010.112
26.0	0.166	1.0	0.0028	045.4040	040.8088	013.096
27.0	0.129	1.0	0.0017	035.2838	031.4381	016.981

28.0	0.089	1.0	0.0008	024.3431	021.4937	021.572
29.0	0.048	1.0	0.0002	013.1289	011.4828	026.635
30.0	0.006	1.0	0.0000	001.6411	001.4212	032.179
31.0	0.036	1.0	0.0001	009.8466	008.4402	027.929
32.0	0.074	1.0	0.0005	020.2403	017.1648	022.274
33.0	0.110	1.0	0.0012	030.0870	025.2331	016.613
34.0	0.142	1.0	0.0020	038.8396	032.1995	011.281
35.0	0.169	1.0	0.0029	046.2246	037.8649	006.487
36.0	0.190	1.0	0.0036	051.9684	042.0433	002.454
37.0	0.205	1.0	0.0042	056.0712	044.7805	-000.744
38.0	0.215	1.0	0.0046	058.8064	046.3401	-003.205
39.0	0.218	1.0	0.0048	059.6269	046.3388	-004.524
40.0	0.216	1.0	0.0047	059.0799	045.2578	-004.976
41.0	0.208	1.0	0.0043	056.8918	042.9368	-004.324
42.0	0.194	1.0	0.0038	053.0625	039.4331	-002.506
43.0	0.176	1.0	0.0031	048.1392	035.2068	000.169
44.0	0.153	1.0	0.0023	041.8483	030.1031	003.930
45.0	0.126	1.0	0.0016	034.4633	024.3692	008.631
46.0	0.096	1.0	0.0009	026.2577	018.2402	014.112
47.0	0.064	1.0	0.0004	017.5052	011.9385	020.198
48.0	0.030	1.0	0.0001	008.2055	005.4906	026.902
49.0	0.005	1.0	0.0000	001.3676	000.8972	031.968
50.0	0.041	1.0	0.0002	011.2142	007.2084	024.409
51.0	0.077	1.0	0.0006	021.0609	013.2540	016.633
52.0	0.113	1.0	0.0013	030.9075	019.0286	008.645
53.0	0.147	1.0	0.0022	040.2072	024.1973	000.889
54.0	0.180	1.0	0.0032	049.2333	028.9386	-006.831
55.0	0.211	1.0	0.0045	057.7123	033.1024	-014.275
56.0	0.240	1.0	0.0058	065.6443	036.7078	-021.422
57.0	0.267	1.0	0.0071	073.0293	039.7746	-028.248
58.0	0.292	1.0	0.0085	079.8673	042.3232	-034.731
59.0	0.313	1.0	0.0098	085.6111	044.0930	-040.383
60.0	0.332	1.0	0.0110	090.8080	045.4040	-045.642
61.0	0.348	1.0	0.0121	095.1843	046.1463	-050.250
62.0	0.362	1.0	0.0131	099.0135	046.4840	-054.424
63.0	0.373	1.0	0.0139	102.0222	046.3171	-057.902
64.0	0.381	1.0	0.0145	104.2104	045.6828	-060.664
65.0	0.387	1.0	0.0150	105.8515	044.7348	-062.934
66.0	0.390	1.0	0.0152	106.6720	043.3874	-064.450
67.0	0.391	1.0	0.0153	106.9456	041.7870	-065.444
68.0	0.390	1.0	0.0152	106.6720	039.9600	-065.905
69.0	0.388	1.0	0.0151	106.1250	038.0318	-066.076
70.0	0.383	1.0	0.0147	104.7574	035.8291	-065.440
71.0	0.377	1.0	0.0142	103.1163	033.5714	-064.498
72.0	0.369	1.0	0.0136	100.9282	031.1885	-062.988
73.0	0.361	1.0	0.0130	098.7400	028.8688	-061.426
74.0	0.351	1.0	0.0123	096.0048	026.4625	-059.286
75.0	0.340	1.0	0.0116	092.9961	024.0692	-056.827
76.0	0.328	1.0	0.0108	089.7139	021.7038	-054.049
77.0	0.316	1.0	0.0100	086.4317	019.4429	-051.216
78.0	0.303	1.0	0.0092	082.8760	017.2309	-048.065
79.0	0.289	1.0	0.0084	079.0467	015.0828	-044.594
80.0	0.275	1.0	0.0076	075.2175	013.0614	-041.075
81.0	0.261	1.0	0.0068	071.3882	011.1676	-037.509
82.0	0.246	1.0	0.0061	067.2854	009.3643	-033.631
83.0	0.232	1.0	0.0054	063.4562	007.7334	-029.983
84.0	0.217	1.0	0.0047	059.3534	006.2041	-026.028
85.0	0.202	1.0	0.0041	055.2506	004.8154	-022.040
86.0	0.187	1.0	0.0035	051.1479	003.5679	-018.023
87.0	0.172	1.0	0.0030	047.0451	002.4622	-013.981
88.0	0.156	1.0	0.0024	042.6688	001.4891	-009.643
89.0	0.141	1.0	0.0020	038.5660	000.6731	-005.560
90.0	0.126	1.0	0.0016	034.4633	000.0000	-001.463