



- IN COMPLIANCE WITH 47 CFR 74.1204(G) THE PROPOSED FACILITY OPERATES AT AN EFFECTIVE RADIATED POWER WHICH IS NOT OVER 100 WATTS, THEREFORE PROTECTION TO INTERMEDIATE FREQUENCY FACILITIES HAS NOT BEEN CALCULATED.

- THE PROPOSED LOCATION IS WITHIN THE PROTECTED 60DBU (50,50) CONTOUR OF SECOND-ADJACENT TRANSLATOR W254CC LOCATED 4.6 KM AWAY. THEREFORE, AN INTERFERENCE ANALYSIS HAS BEEN CONDUCTED BASED ON THE U/D RATIO OF +40 DB AT THE PROPOSED SITE. THE SIGNAL OF W254CC AT THE PROPOSED LOCATION IS 76.6 DBU (50,50) MAKING THE RELEVANT INTERFERING CONTOUR OF THE PROPOSED FACILITY 116.6 DBU (50,10). THE FREE SPACE DISTANCE TO THIS CONTOUR IN A WORSE-CASE SCENARIO UTILIZING A SINGLE DIPOLE ANTENNA IS 76.9 METERS. THE PROPOSED ANTENNA HEIGHT IS 36 METERS ABOVE GROUND

- THE ATTACHED CHART OF THE VERTICAL RADIATION PATTERN OF THE SPECIFIED ANTENNA DEMONSTRATES THAT THE INTERFERING CONTOUR WILL NEVER REACH THE GROUND AT ANY DEPRESSION ANGLE, MAKING THE INTERFERING CONTOUR INCAPABLE OF REACHING THE GENERAL PUBLIC.

BASED ON THIS SHOWING, A WAIVER OF SECTION 74.1204 IS REQUESTED IN ACCORDANCE WITH LIVING WAY MINISTRIES, INC. (FCC 08-242) ON THE BASIS OF ZERO POPULATION IN THE AREA OF INTERFERENCE.

IT SHOULD BE NOTED THAT SHOULD ANY ACTUAL REAL WORLD INTERFERENCE OCCUR, THE APPLICANT ACKNOWLEDGES THAT IT WILL PROMPTLY SUSPEND OPERATION OF THIS TRANSLATOR IN ACCORDANCE WITH 47 C.F.R. 74.1203.

NICOM BKG77  
1-Bay Circularly Polarized FM Antenna



Frequency = 98.3 Mhz  
Interfering Contour 116.6 dBu (50,10)

ERP= 55 watts  
Height = 34 m AGL

Depression Angle	Relative Field (o)	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Clearance (m)
1	1.000	55.0	76.95	2,673.87	2597
2	0.996	54.6	76.64	1,337.14	1261
3	0.992	54.1	76.33	891.65	815
4	0.989	53.8	76.10	668.98	593
5	0.983	53.1	75.64	535.43	460
6	0.981	52.9	75.48	446.44	371
7	0.979	52.7	75.33	382.91	308
8	0.975	52.3	75.02	335.31	260
9	0.973	52.1	74.87	298.31	223
10	0.971	51.9	74.71	268.74	194
11	0.970	51.7	74.64	244.57	170
12	0.969	51.6	74.56	224.45	150
13	0.968	51.5	74.48	207.45	133
14	0.966	51.3	74.33	192.89	119
15	0.965	51.2	74.25	180.30	106
16	0.961	50.8	73.94	169.30	95
17	0.957	50.4	73.64	159.61	86
18	0.953	50.0	73.33	151.01	78
19	0.949	49.5	73.02	143.34	70
20	0.945	49.1	72.71	136.44	64
21	0.941	48.7	72.41	130.22	58
22	0.938	48.4	72.17	124.57	52
23	0.934	48.0	71.87	119.43	48
24	0.930	47.6	71.56	114.73	43
25	0.926	47.2	71.25	110.42	39
26	0.915	46.0	70.40	106.45	36
27	0.904	44.9	69.56	102.79	33
28	0.894	44.0	68.79	99.40	31
29	0.883	42.9	67.94	96.26	28
30	0.872	41.8	67.10	93.33	26
31	0.868	41.4	66.79	90.61	24
32	0.863	41.0	66.40	88.06	22
33	0.858	40.5	66.02	85.68	20
34	0.850	39.7	65.40	83.45	18
35	0.843	39.1	64.86	81.36	16
36	0.834	38.3	64.17	79.39	15
37	0.824	37.3	63.40	77.54	14
38	0.816	36.6	62.79	75.80	13
39	0.807	35.8	62.09	74.15	12
40	0.798	35.0	61.40	72.60	11
41	0.788	34.2	60.63	71.13	10
42	0.778	33.3	59.86	69.74	10
43	0.767	32.4	59.02	68.42	9
44	0.755	31.4	58.09	67.18	9
45	0.744	30.4	57.25	65.99	9

Depression Angle	Relative Field	Effective Power (w)	Distance to Contour (m)	Distance from Antenna to Ground (m)	Distance from Antenna to Ground (m)	Clearance (m)
46	0.729	29.2	56.09	48.66	64.86	9
47	0.716	28.2	55.09	47.86	63.79	9
48	0.704	27.3	54.17	47.10	62.78	9
49	0.693	26.4	53.32	46.38	61.82	8
50	0.682	25.6	52.48	45.69	60.90	8
51	0.670	24.7	51.55	45.04	60.03	8
52	0.659	23.9	50.71	44.42	59.21	8
53	0.648	23.1	49.86	43.82	58.42	9
54	0.637	22.3	49.01	43.26	57.67	9
55	0.626	21.6	48.17	42.73	56.96	9
56	0.611	20.5	47.01	42.22	56.28	9
57	0.602	19.9	46.32	41.73	55.63	9
58	0.588	19.0	45.24	41.27	55.01	10
59	0.579	18.4	44.55	40.83	54.43	10
60	0.563	17.4	43.32	40.41	53.87	11
61	0.551	16.7	42.40	40.02	53.34	11
62	0.538	15.9	41.40	39.64	52.84	11
63	0.523	15.0	40.24	39.28	52.36	12
64	0.511	14.4	39.32	38.94	51.91	13
65	0.499	13.7	38.40	38.62	51.48	13
66	0.484	12.9	37.24	38.31	51.07	14
67	0.469	12.1	36.09	38.02	50.68	15
68	0.454	11.3	34.93	37.75	50.32	15
69	0.439	10.6	33.78	37.49	49.97	16
70	0.424	9.9	32.62	37.25	49.65	17
71	0.409	9.2	31.47	37.02	49.34	18
72	0.398	8.7	30.62	36.80	49.06	18
73	0.381	8.0	29.32	36.60	48.79	19
74	0.366	7.4	28.16	36.41	48.54	20
75	0.351	6.8	27.01	36.23	48.30	21
76	0.338	6.3	26.01	36.07	48.08	22
77	0.319	5.6	24.55	35.92	47.88	23
78	0.302	5.0	23.24	35.78	47.70	24
79	0.290	4.6	22.31	35.66	47.53	25
80	0.277	4.2	21.31	35.54	47.37	26
81	0.261	3.7	20.08	35.44	47.24	27
82	0.248	3.4	19.08	35.34	47.11	28
83	0.231	2.9	17.77	35.26	47.01	29
84	0.215	2.5	16.54	35.19	46.91	30
85	0.200	2.2	15.39	35.13	46.83	31
86	0.189	2.0	14.54	35.09	46.77	32
87	0.174	1.7	13.39	35.05	46.72	33
88	0.161	1.4	12.39	35.02	46.68	34
89	0.147	1.2	11.31	35.01	46.66	35
90	0.134	1.0	0.00	35.00	46.66	47

NOTES:

- HEIGHT HAS BEEN REDUCED BY 2 METERS TO ALLOW FOR HUMAN EXPOSURE
- DISTANCE FROM ANTENNA TO GROUND IS ACTUALLY TO A POINT 2 METERS ABOVE GROUND