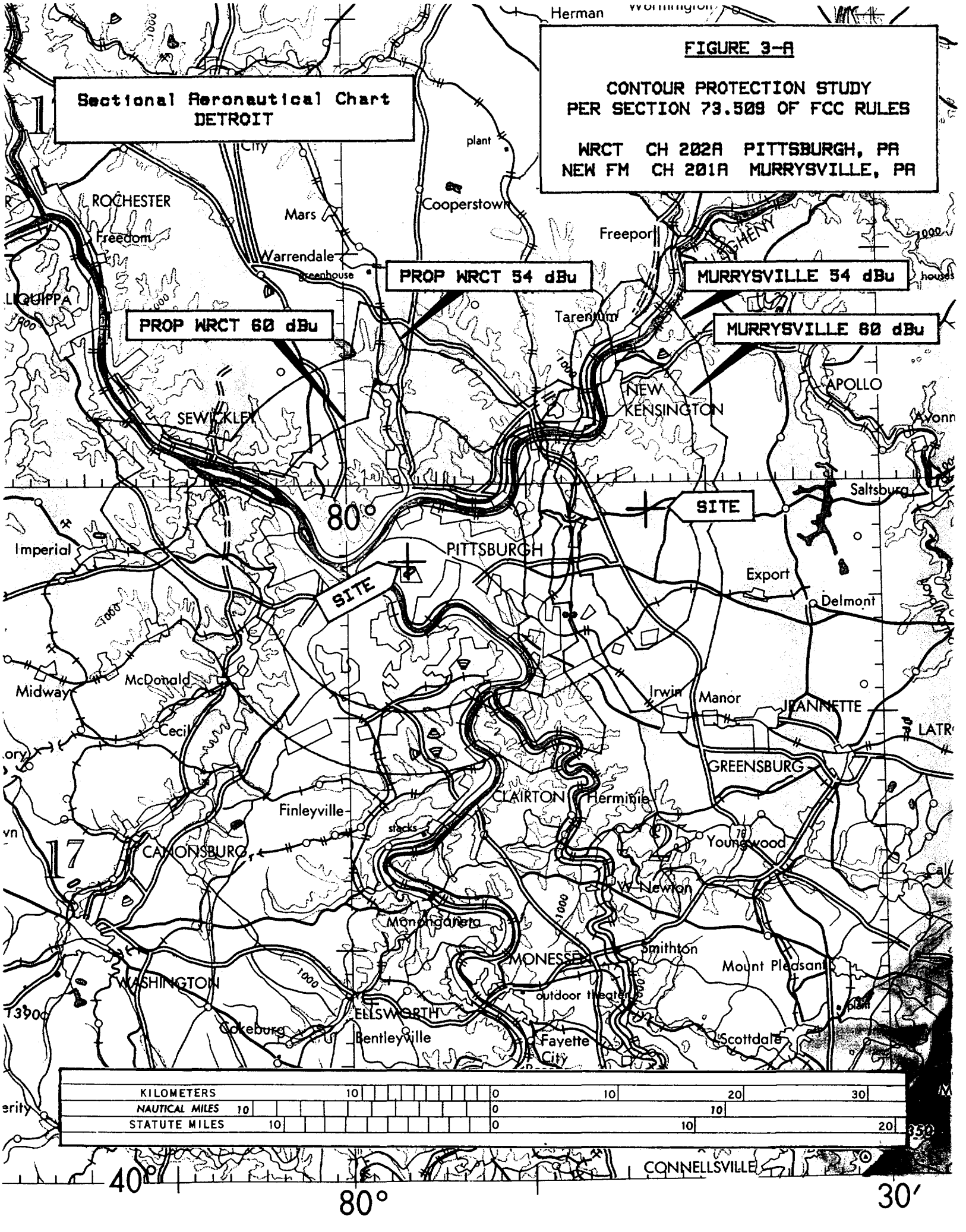
FIGURE 3-A
CONTOUR PROTECTION STUDY
PER SECTION 73.509 OF FCC RULES
WRCT CH 202A PITTSBURGH, PA
NEW FM CH 201A MURRYSVILLE, PA
Sectional Aeronautical Chart
DETROIT
PROP WRCT 54 dBu
MURRYSVILLE 54 dBu
PROP WRCT 60 dBu
MURRYSVILLE 60 dBu
SITE
SITE
ROCHESTER
Freedom
Mars
Warrendale
Cooperstown
Freeport
Tarentum
NEW KENSINGTON
APOLLO
SEWICKLEY
PITTSBURGH
Saltsburg
Export
Delmont
Imperial
Midway
McDonald
Cecil
Irwin
Manor
JEANNETTE
GREENSBURG
CLAIRTON
Herminie
Finleyville
CANONSBURG
Youngwood
Newton
Monongahela
MONESSEN
Smithton
Mount Pleasant
WASHINGTON
ELLSWORTH
Cokeburg
Bentleyville
Fayette City
Scottdale
CONNELLSVILLE
KILOMETERS
NAUTICAL MILES
STATUTE MILES
40°
80°
30′

FM & TV CONTOUR CALCULATION TABULATIONS

WRCT - CH 202A - PITTSBURGH PA
Contour Basis: FM BROADCAST

CALCULATED FM CONTOURS - 50 % SIGNALS
PROPOSED CONTOURS

E.R.P. = 1.770 KW DA
H.A.A.T. = 21.9 M (72') ANTENNA HAMSL = 324.3 M (1064')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	70 dBu	60 dBu	34 dBu	70 dBu	60 dBu	34 dBu
				(------ MILES		-------)	(---- KILOMETERS		----)
0.0	52	15.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
5.0	-6	-1.9	1.000	4.07	7.28	29.24	6.54	11.72	47.05
10.0	20	6.0	0.980	4.02	7.21	28.98	6.48	11.60	46.65
15.0	10	3.2	0.940	3.94	7.06	28.47	6.34	11.36	45.82
20.0	27	8.1	0.880	3.81	6.83	27.68	6.13	10.99	44.55
25.0	57	17.5	0.820	3.67	6.59	26.86	5.91	10.60	43.23
30.0	89	27.1	0.760	3.53	6.34	26.01	5.69	10.21	41.86
35.0	111	33.9	0.720	3.62	6.49	26.48	5.83	10.44	42.61
40.0	180	54.8	0.680	4.49	8.02	31.32	7.23	12.91	50.41
45.0	195	59.4	0.660	4.61	8.24	31.99	7.43	13.26	51.49
50.0	178	54.2	0.650	4.37	7.80	30.70	7.03	12.55	49.40
55.0	126	38.4	0.650	3.66	6.55	26.71	5.89	10.54	42.98
60.0	52	15.8	0.650	3.26	5.86	24.36	5.25	9.43	39.20
65.0	10	3.1	0.650	3.26	5.86	24.36	5.25	9.43	39.20
70.0	-1	-0.4	0.650	3.26	5.86	24.36	5.25	9.43	39.20
75.0	-41	-12.5	0.635	3.22	5.79	24.12	5.19	9.32	38.82
80.0	-32	-9.9	0.635	3.22	5.79	24.12	5.19	9.32	38.82
85.0	-11	-3.5	0.620	3.19	5.72	23.88	5.13	9.21	38.44
90.0	-11	-3.5	0.620	3.19	5.72	23.88	5.13	9.21	38.44
95.0	-5	-1.4	0.620	3.19	5.72	23.88	5.13	9.21	38.44
100.0	19	5.8	0.620	3.19	5.72	23.88	5.13	9.21	38.44
105.0	34	10.3	0.650	3.26	5.86	24.36	5.25	9.43	39.20
110.0	98	29.9	0.660	3.29	5.91	24.52	5.29	9.51	39.45
115.0	116	35.5	0.680	3.60	6.45	26.34	5.79	10.38	42.40
120.0	66	20.0	0.720	3.44	6.17	25.43	5.53	9.93	40.92
125.0	107	32.6	0.760	3.65	6.55	26.67	5.88	10.53	42.92
130.0	175	53.3	0.820	4.87	8.69	33.06	7.84	13.98	53.20
135.0	181	55.3	0.880	5.15	9.17	34.33	8.28	14.76	55.25
140.0	129	39.2	0.940	4.46	7.96	31.04	7.18	12.81	49.95
145.0	140	42.8	0.980	4.76	8.50	32.52	7.66	13.67	52.34
150.0	132	40.3	1.000	4.67	8.33	32.10	7.51	13.41	51.65
155.0	62	18.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
160.0	79	24.2	1.000	4.07	7.28	29.24	6.54	11.72	47.05
165.0	57	17.3	1.000	4.07	7.28	29.24	6.54	11.72	47.05
170.0	31	9.3	1.000	4.07	7.28	29.24	6.54	11.72	47.05

CALCULATED FM CONTOURS - 50 % SIGNALS
PROPOSED CONTOURS

E.R.P. = 1.770 KW DA
H.A.A.T. = 21.9 M (72') ANTENNA HAMSL = 324.3 M (1064')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	70 dBu	60 dBu	34 dBu	70 dBu	60 dBu	34 dBu
				(------ MILES	-------	)	(---- KILOMETERS	----	)
175.0	32	9.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
180.0	35	10.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
185.0	30	9.2	1.000	4.07	7.28	29.24	6.54	11.72	47.05
190.0	23	7.0	1.000	4.07	7.28	29.24	6.54	11.72	47.05
195.0	-5	-1.5	1.000	4.07	7.28	29.24	6.54	11.72	47.05
200.0	-40	-12.3	1.000	4.07	7.28	29.24	6.54	11.72	47.05
205.0	-52	-15.7	1.000	4.07	7.28	29.24	6.54	11.72	47.05
210.0	-51	-15.4	1.000	4.07	7.28	29.24	6.54	11.72	47.05
215.0	-40	-12.3	1.000	4.07	7.28	29.24	6.54	11.72	47.05
220.0	-38	-11.6	1.000	4.07	7.28	29.24	6.54	11.72	47.05
225.0	-29	-8.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
230.0	-23	-7.0	1.000	4.07	7.28	29.24	6.54	11.72	47.05
235.0	-3	-0.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
240.0	81	24.6	1.000	4.07	7.28	29.24	6.54	11.72	47.05
245.0	97	29.7	1.000	4.07	7.28	29.24	6.54	11.72	47.05
250.0	114	34.6	1.000	4.32	7.73	30.48	6.96	12.44	49.05
255.0	96	29.4	1.000	4.07	7.28	29.24	6.54	11.72	47.05
260.0	97	29.6	1.000	4.07	7.28	29.24	6.54	11.72	47.05
265.0	113	34.3	1.000	4.31	7.70	30.39	6.93	12.39	48.91
270.0	136	41.4	1.000	4.73	8.44	32.40	7.61	13.59	52.13
275.0	176	53.7	1.000	5.41	9.64	35.48	8.70	15.51	57.11
280.0	202	61.5	1.000	5.80	10.34	37.21	9.33	16.63	59.88
285.0	193	58.8	1.000	5.67	10.10	36.63	9.12	16.25	58.95
290.0	168	51.1	1.000	5.27	9.39	34.87	8.48	15.12	56.12
295.0	242	73.7	1.000	6.36	11.34	39.57	10.24	18.25	63.69
300.0	163	49.8	1.000	5.20	9.27	34.56	8.37	14.92	55.61
305.0	60	18.3	1.000	4.07	7.28	29.24	6.54	11.72	47.05
310.0	39	12.0	1.000	4.07	7.28	29.24	6.54	11.72	47.05
315.0	15	4.7	1.000	4.07	7.28	29.24	6.54	11.72	47.05
320.0	-3	-0.9	1.000	4.07	7.28	29.24	6.54	11.72	47.05
325.0	26	7.9	1.000	4.07	7.28	29.24	6.54	11.72	47.05
330.0	41	12.4	1.000	4.07	7.28	29.24	6.54	11.72	47.05
335.0	31	9.5	1.000	4.07	7.28	29.24	6.54	11.72	47.05
340.0	52	15.8	1.000	4.07	7.28	29.24	6.54	11.72	47.05
345.0	62	18.9	1.000	4.07	7.28	29.24	6.54	11.72	47.05
350.0	153	46.5	1.000	5.02	8.95	33.73	8.08	14.41	54.29
355.0	141	43.0	1.000	4.82	8.61	32.82	7.76	13.85	52.83

CONTOURS CALCULATED IN ACCORDANCE WITH SECTION 73.313 OF THE FCC RULES.

FM & TV CONTOUR CALCULATION TABULATIONS

WRCT - CH 202A - PITTSBURGH PA
Contour Basis: FM BROADCAST

CALCULATED FM CONTOURS - 10 % SIGNALS
PROPOSED CONTOURS

E.R.P. = 1.770 KW DA
H.A.A.T. = 21.9 M (72') ANTENNA HAMSL = 324.3 M (1064')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	100 dBu (------ MILES	80 dBu	54 dBu -------)	100 dBu (---- KILOMETERS	80 dBu	54 dBu ----)
0.0	52	15.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
5.0	-6	-1.9	1.000	1.83	2.27	10.33	2.95	3.65	16.63
10.0	20	6.0	0.980	1.80	2.24	10.25	2.89	3.61	16.49
15.0	10	3.2	0.940	1.72	2.20	10.07	2.77	3.54	16.20
20.0	27	8.1	0.880	1.61	2.13	9.73	2.60	3.42	15.66
25.0	57	17.5	0.820	1.50	2.05	9.37	2.42	3.30	15.08
30.0	89	27.1	0.760	1.39	1.98	8.99	2.24	3.18	14.47
35.0	111	33.9	0.720	1.32	2.03	9.20	2.12	3.27	14.81
40.0	180	54.8	0.680	1.25	2.55	11.51	2.01	4.10	18.52
45.0	195	59.4	0.660	1.21	2.62	11.85	1.95	4.21	19.08
50.0	178	54.2	0.650	1.19	2.47	11.18	1.92	3.98	17.99
55.0	126	38.4	0.650	1.19	2.06	9.29	1.92	3.32	14.96
60.0	52	15.8	0.650	1.19	1.83	8.28	1.92	2.95	13.32
65.0	10	3.1	0.650	1.19	1.83	8.28	1.92	2.95	13.32
70.0	-1	-0.4	0.650	1.19	1.83	8.28	1.92	2.95	13.32
75.0	-41	-12.5	0.635	1.16	1.81	8.17	1.87	2.91	13.16
80.0	-32	-9.9	0.635	1.16	1.81	8.17	1.87	2.91	13.16
85.0	-11	-3.5	0.620	1.14	1.79	8.07	1.83	2.88	12.99
90.0	-11	-3.5	0.620	1.14	1.79	8.07	1.83	2.88	12.99
95.0	-5	-1.4	0.620	1.14	1.79	8.07	1.83	2.88	12.99
100.0	19	5.8	0.620	1.14	1.79	8.07	1.83	2.88	12.99
105.0	34	10.3	0.650	1.19	1.83	8.28	1.92	2.95	13.32
110.0	98	29.9	0.660	1.21	1.84	8.34	1.95	2.97	13.43
115.0	116	35.5	0.680	1.25	2.02	9.14	2.01	3.26	14.71
120.0	66	20.0	0.720	1.32	1.93	8.74	2.12	3.10	14.06
125.0	107	32.6	0.760	1.39	2.05	9.29	2.24	3.29	14.95
130.0	175	53.3	0.820	1.50	2.76	12.49	2.42	4.43	20.10
135.0	181	55.3	0.880	1.61	2.91	13.23	2.60	4.68	21.29
140.0	129	39.2	0.940	1.72	2.50	11.40	2.77	4.02	18.35
145.0	140	42.8	0.980	1.80	2.67	12.18	2.89	4.30	19.60
150.0	132	40.3	1.000	1.83	2.61	11.92	2.95	4.21	19.18
155.0	62	18.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
160.0	79	24.2	1.000	1.83	2.27	10.33	2.95	3.65	16.63
165.0	57	17.3	1.000	1.83	2.27	10.33	2.95	3.65	16.63
170.0	31	9.3	1.000	1.83	2.27	10.33	2.95	3.65	16.63

CALCULATED FM CONTOURS - 10 % SIGNALS
PROPOSED CONTOURS

E.R.P. = 1.770 KW DA
H.A.A.T. = 21.9 M (72') ANTENNA HAMSL = 324.3 M (1064')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	100 dBu (------ MILES	80 dBu	54 dBu -------)	100 dBu (---- KILOMETERS	80 dBu	54 dBu ----)
175.0	32	9.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
180.0	35	10.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
185.0	30	9.2	1.000	1.83	2.27	10.33	2.95	3.65	16.63
190.0	23	7.0	1.000	1.83	2.27	10.33	2.95	3.65	16.63
195.0	-5	-1.5	1.000	1.83	2.27	10.33	2.95	3.65	16.63
200.0	-40	-12.3	1.000	1.83	2.27	10.33	2.95	3.65	16.63
205.0	-52	-15.7	1.000	1.83	2.27	10.33	2.95	3.65	16.63
210.0	-51	-15.4	1.000	1.83	2.27	10.33	2.95	3.65	16.63
215.0	-40	-12.3	1.000	1.83	2.27	10.33	2.95	3.65	16.63
220.0	-38	-11.6	1.000	1.83	2.27	10.33	2.95	3.65	16.63
225.0	-29	-8.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
230.0	-23	-7.0	1.000	1.83	2.27	10.33	2.95	3.65	16.63
235.0	-3	-0.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
240.0	81	24.6	1.000	1.83	2.27	10.33	2.95	3.65	16.63
245.0	97	29.7	1.000	1.83	2.27	10.33	2.95	3.65	16.63
250.0	114	34.6	1.000	1.83	2.42	11.01	2.95	3.89	17.72
255.0	96	29.4	1.000	1.83	2.27	10.33	2.95	3.65	16.63
260.0	97	29.6	1.000	1.83	2.27	10.33	2.95	3.65	16.63
265.0	113	34.3	1.000	1.83	2.41	10.96	2.95	3.87	17.64
270.0	136	41.4	1.000	1.83	2.65	12.09	2.95	4.27	19.45
275.0	176	53.7	1.000	0.96	3.04	13.93	1.54	4.89	22.42
280.0	202	61.5	1.000	1.03	3.27	15.03	1.66	5.26	24.19
285.0	193	58.8	1.000	1.01	3.19	14.65	1.62	5.13	23.58
290.0	168	51.1	1.000	0.93	2.96	13.55	1.50	4.77	21.81
295.0	242	73.7	1.000	1.11	3.59	16.64	1.79	5.77	26.79
300.0	163	49.8	1.000	1.83	2.92	13.36	2.95	4.70	21.50
305.0	60	18.3	1.000	1.83	2.27	10.33	2.95	3.65	16.63
310.0	39	12.0	1.000	1.83	2.27	10.33	2.95	3.65	16.63
315.0	15	4.7	1.000	1.83	2.27	10.33	2.95	3.65	16.63
320.0	-3	-0.9	1.000	1.83	2.27	10.33	2.95	3.65	16.63
325.0	26	7.9	1.000	1.83	2.27	10.33	2.95	3.65	16.63
330.0	41	12.4	1.000	1.83	2.27	10.33	2.95	3.65	16.63
335.0	31	9.5	1.000	1.83	2.27	10.33	2.95	3.65	16.63
340.0	52	15.8	1.000	1.83	2.27	10.33	2.95	3.65	16.63
345.0	62	18.9	1.000	1.83	2.27	10.33	2.95	3.65	16.63
350.0	153	46.5	1.000	1.83	2.82	12.87	2.95	4.54	20.71
355.0	141	43.0	1.000	1.83	2.70	12.33	2.95	4.35	19.85

CONTOURS CALCULATED IN ACCORDANCE WITH SECTION 73.313 OF THE FCC RULES.

FM & TV CONTOUR CALCULATION TABULATIONS

HE'S ALIVE INC. - MURRYSVILLE PA
Contour Basis: FM BROADCAST

CALCULATED FM CONTOURS - 50 % SIGNALS
NEW STATION CONTOURS

E.R.P. = 0.200 KW DA
H.A.A.T. = 0.0 M (0') ANTENNA HAMSL = 395.8 M (1299')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	70 dBu	60 dBu	34 dBu	70 dBu	60 dBu	34 dBu
				(------ MILES		-------)	(---- KILOMETERS		----)
0.0	331	101.0	1.000	4.32	7.67	30.59	6.95	12.35	49.23
10.0	254	77.3	1.000	3.78	6.72	27.67	6.09	10.81	44.54
20.0	192	58.6	1.000	3.28	5.83	24.63	5.27	9.38	39.64
30.0	159	48.4	0.794	2.65	4.70	20.46	4.27	7.57	32.92
40.0	123	37.4	0.631	2.06	3.67	16.33	3.32	5.90	26.28
50.0	162	49.4	0.501	2.13	3.76	16.74	3.43	6.05	26.93
60.0	145	44.1	0.398	1.79	3.16	14.21	2.88	5.08	22.87
70.0	104	31.8	0.355	1.44	2.53	11.46	2.31	4.07	18.45
80.0	129	39.3	0.316	1.50	2.66	12.00	2.42	4.27	19.31
90.0	115	35.1	0.282	1.35	2.37	10.72	2.17	3.81	17.25
100.0	132	40.3	0.251	1.36	2.41	10.83	2.18	3.87	17.44
110.0	125	38.1	0.251	1.32	2.34	10.53	2.13	3.76	16.95
120.0	145	44.1	0.316	1.59	2.82	12.71	2.56	4.54	20.45
130.0	171	52.1	0.398	1.95	3.44	15.43	3.13	5.54	24.83
140.0	184	56.0	0.501	2.27	4.01	17.78	3.66	6.45	28.61
150.0	198	60.4	0.631	2.66	4.69	20.44	4.28	7.55	32.90
160.0	236	71.9	0.794	3.27	5.77	24.45	5.26	9.28	39.35
170.0	221	67.5	1.000	3.53	6.27	26.17	5.68	10.09	42.12
180.0	259	78.9	1.000	3.82	6.79	27.90	6.15	10.92	44.90
185.0	276	84.2	0.955	3.86	6.85	28.11	6.22	11.03	45.24
190.0	249	75.8	0.851	3.47	6.13	25.73	5.59	9.87	41.41
195.0	232	70.8	0.759	3.17	5.59	23.83	5.10	9.00	38.34
200.0	244	74.3	0.676	3.07	5.40	23.15	4.94	8.70	37.26
205.0	227	69.2	0.603	2.79	4.92	21.32	4.49	7.91	34.31
210.0	242	73.9	0.537	2.72	4.79	20.88	4.38	7.71	33.61
215.0	241	73.6	0.479	2.56	4.51	19.82	4.12	7.26	31.90
220.0	225	68.7	0.427	2.33	4.11	18.22	3.75	6.62	29.33
225.0	306	93.3	0.380	2.55	4.54	19.89	4.10	7.31	32.01
230.0	318	96.8	0.339	2.44	4.38	19.20	3.92	7.04	30.89
235.0	277	84.3	0.316	2.20	3.95	17.46	3.53	6.36	28.10
240.0	248	75.5	0.316	2.08	3.74	16.58	3.35	6.01	26.68
245.0	215	65.6	0.316	1.94	3.47	15.49	3.12	5.59	24.93
250.0	206	62.9	0.316	1.90	3.40	15.17	3.06	5.47	24.42
255.0	203	61.8	0.282	1.78	3.19	14.24	2.86	5.14	22.92
260.0	193	58.8	0.251	1.63	2.94	13.12	2.62	4.73	21.12

CALCULATED FM CONTOURS - 50 % SIGNALS
NEW STATION CONTOURS

E.R.P. = 0.200 KW DA
H.A.A.T. = 0.0 M (0') ANTENNA HAMSL = 395.8 M (1299')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	70 dBu	60 dBu	34 dBu	70 dBu	60 dBu	34 dBu
				(------ MILES ------)			(---- KILOMETERS ----)		
265.0	215	65.5	0.251	1.72	3.11	13.85	2.76	5.01	22.30
270.0	299	91.2	0.251	2.01	3.68	16.26	3.23	5.93	26.16
275.0	333	101.6	0.224	1.98	3.67	16.20	3.19	5.91	26.07
280.0	292	89.0	0.251	1.99	3.64	16.07	3.20	5.86	25.87
285.0	294	89.7	0.251	1.99	3.65	16.13	3.21	5.88	25.96
290.0	302	91.9	0.251	2.02	3.70	16.31	3.25	5.95	26.26
295.0	296	90.1	0.251	2.00	3.66	16.17	3.22	5.89	26.02
300.0	305	93.1	0.275	2.13	3.89	17.13	3.43	6.25	27.56
305.0	299	91.2	0.309	2.25	4.07	17.91	3.63	6.54	28.82
310.0	357	108.7	0.347	2.61	4.68	20.40	4.19	7.53	32.83
315.0	323	98.6	0.389	2.65	4.72	20.59	4.26	7.59	33.14
320.0	288	87.7	0.437	2.66	4.71	20.60	4.29	7.59	33.15
325.0	284	86.7	0.490	2.81	4.96	21.55	4.53	7.98	34.68
330.0	237	72.2	0.550	2.72	4.79	20.88	4.38	7.71	33.60
335.0	300	91.5	0.617	3.25	5.73	24.33	5.24	9.22	39.16
340.0	340	103.5	0.692	3.66	6.45	26.80	5.89	10.38	43.14
345.0	304	92.8	0.776	3.67	6.48	26.91	5.91	10.43	43.30
350.0	328	100.1	0.871	4.03	7.13	28.96	6.48	11.47	46.61
355.0	337	102.6	0.977	4.31	7.64	30.50	6.93	12.30	49.08

CONTOURS CALCULATED IN ACCORDANCE WITH SECTION 73.313 OF THE FCC RULES.

ANTENNA RELATIVE FIELDS TAKEN FROM CONCURRENT HE'S ALIVE AMENDMENT.

FM & TV CONTOUR CALCULATION TABULATIONS

HE'S ALIVE INC. - MURRYSVILLE PA
Contour Basis: FM BROADCAST

CALCULATED FM CONTOURS - 10 % SIGNALS
NEW STATION CONTOURS

E.R.P. = 0.200 KW DA
H.A.A.T. = 0.0 M (0') ANTENNA HAMSL = 395.8 M (1299')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	100 dBu (------ MILES	80 dBu	54 dBu -------)	100 dBu (---- KILOMETERS	80 dBu	54 dBu ----)
0.0	331	101.0	1.000	0.62	2.39	11.15	0.99	3.85	17.94
10.0	254	77.3	1.000	0.62	2.11	9.69	0.99	3.39	15.59
20.0	192	58.6	1.000	0.62	1.84	8.35	0.99	2.95	13.44
30.0	159	48.4	0.794	0.49	1.48	6.69	0.79	2.39	10.76
40.0	123	37.4	0.631	0.39	1.17	5.21	0.63	1.88	8.39
50.0	162	49.4	0.501	0.31	1.19	5.34	0.50	1.91	8.59
60.0	145	44.1	0.398	0.25	1.00	4.48	0.39	1.60	7.21
70.0	104	31.8	0.355	0.22	2.19	3.59	0.35	3.52	5.78
80.0	129	39.3	0.316	0.19	1.95	3.76	0.31	3.13	6.05
90.0	115	35.1	0.282	0.17	1.74	3.35	0.28	2.79	5.39
100.0	132	40.3	0.251	0.15	1.55	3.38	0.25	2.49	5.45
110.0	125	38.1	0.251	0.15	1.55	3.29	0.25	2.49	5.29
120.0	145	44.1	0.316	0.19	1.95	3.99	0.31	3.13	6.41
130.0	171	52.1	0.398	0.25	1.09	4.89	0.39	1.75	7.86
140.0	184	56.0	0.501	0.31	1.26	5.70	0.50	2.03	9.17
150.0	198	60.4	0.631	0.39	1.47	6.67	0.63	2.36	10.74
160.0	236	71.9	0.794	0.49	1.80	8.24	0.79	2.89	13.27
170.0	221	67.5	1.000	0.62	1.97	9.01	0.99	3.17	14.50
180.0	259	78.9	1.000	0.62	2.13	9.79	0.99	3.42	15.76
185.0	276	84.2	0.955	0.59	2.14	9.89	0.95	3.45	15.91
190.0	249	75.8	0.851	0.52	1.91	8.79	0.84	3.08	14.15
195.0	232	70.8	0.759	0.47	1.74	7.98	0.75	2.80	12.85
200.0	244	74.3	0.676	0.42	1.68	7.70	0.67	2.70	12.40
205.0	227	69.2	0.603	0.37	1.53	7.00	0.60	2.46	11.26
210.0	242	73.9	0.537	0.33	1.48	6.82	0.53	2.38	10.97
215.0	241	73.6	0.479	0.29	1.39	6.41	0.47	2.24	10.32
220.0	225	68.7	0.427	0.26	1.28	5.84	0.42	2.06	9.40
225.0	306	93.3	0.380	0.95	1.36	6.42	1.53	2.18	10.33
230.0	318	96.8	0.339	0.94	1.29	6.17	1.51	2.08	9.92
235.0	277	84.3	0.316	1.09	1.20	5.55	1.76	1.93	8.94
240.0	248	75.5	0.316	1.08	1.15	5.25	1.73	1.85	8.46
245.0	215	65.6	0.316	0.19	1.09	4.89	0.31	1.75	7.87
250.0	206	62.9	0.316	0.19	1.07	4.79	0.31	1.72	7.70
255.0	203	61.8	0.282	0.17	1.01	4.47	0.28	1.62	7.20
260.0	193	58.8	0.251	0.15	0.94	4.11	0.25	1.50	6.62

CALCULATED FM CONTOURS - 10 % SIGNALS
NEW STATION CONTOURS

E.R.P. = 0.200 KW DA
H.A.A.T. = 0.0 M (0') ANTENNA HAMSL = 395.8 M (1299')

RADIAL (° TRUE)	ANT HEIGHT (FT)	(M)	REL FLD	100 dBu (------ MILES	80 dBu	54 dBu -------)	100 dBu (---- KILOMETERS	80 dBu	54 dBu ----)
265.0	215	65.5	0.251	0.97	0.99	4.35	1.57	1.59	6.99
270.0	299	91.2	0.251	1.14	1.10	5.14	1.83	1.77	8.27
275.0	333	101.6	0.224	0.98	1.06	5.12	1.58	1.70	8.24
280.0	292	89.0	0.251	1.16	1.09	5.08	1.87	1.76	8.17
285.0	294	89.7	0.251	1.16	1.10	5.10	1.86	1.76	8.20
290.0	302	91.9	0.251	1.13	1.10	5.16	1.81	1.77	8.30
295.0	296	90.1	0.251	1.15	1.10	5.11	1.85	1.77	8.22
300.0	305	93.1	0.275	1.07	1.15	5.44	1.72	1.85	8.75
305.0	299	91.2	0.309	1.05	1.21	5.71	1.69	1.95	9.19
310.0	357	108.7	0.347	0.21	1.35	6.61	0.34	2.17	10.63
315.0	323	98.6	0.389	0.24	1.40	6.68	0.39	2.25	10.75
320.0	288	87.7	0.437	0.96	1.43	6.69	1.55	2.30	10.76
325.0	284	86.7	0.490	0.94	1.51	7.05	1.51	2.43	11.35
330.0	237	72.2	0.550	0.34	1.48	6.82	0.54	2.39	10.97
335.0	300	91.5	0.617	0.38	1.75	8.18	0.61	2.82	13.16
340.0	340	103.5	0.692	0.43	1.97	9.25	0.69	3.17	14.89
345.0	304	92.8	0.776	0.48	2.00	9.30	0.77	3.22	14.97
350.0	328	100.1	0.871	0.54	2.21	10.30	0.86	3.55	16.57
355.0	337	102.6	0.977	0.60	2.38	11.10	0.97	3.83	17.86

CONTOURS CALCULATED IN ACCORDANCE WITH SECTION 73.313 OF THE FCC RULES.

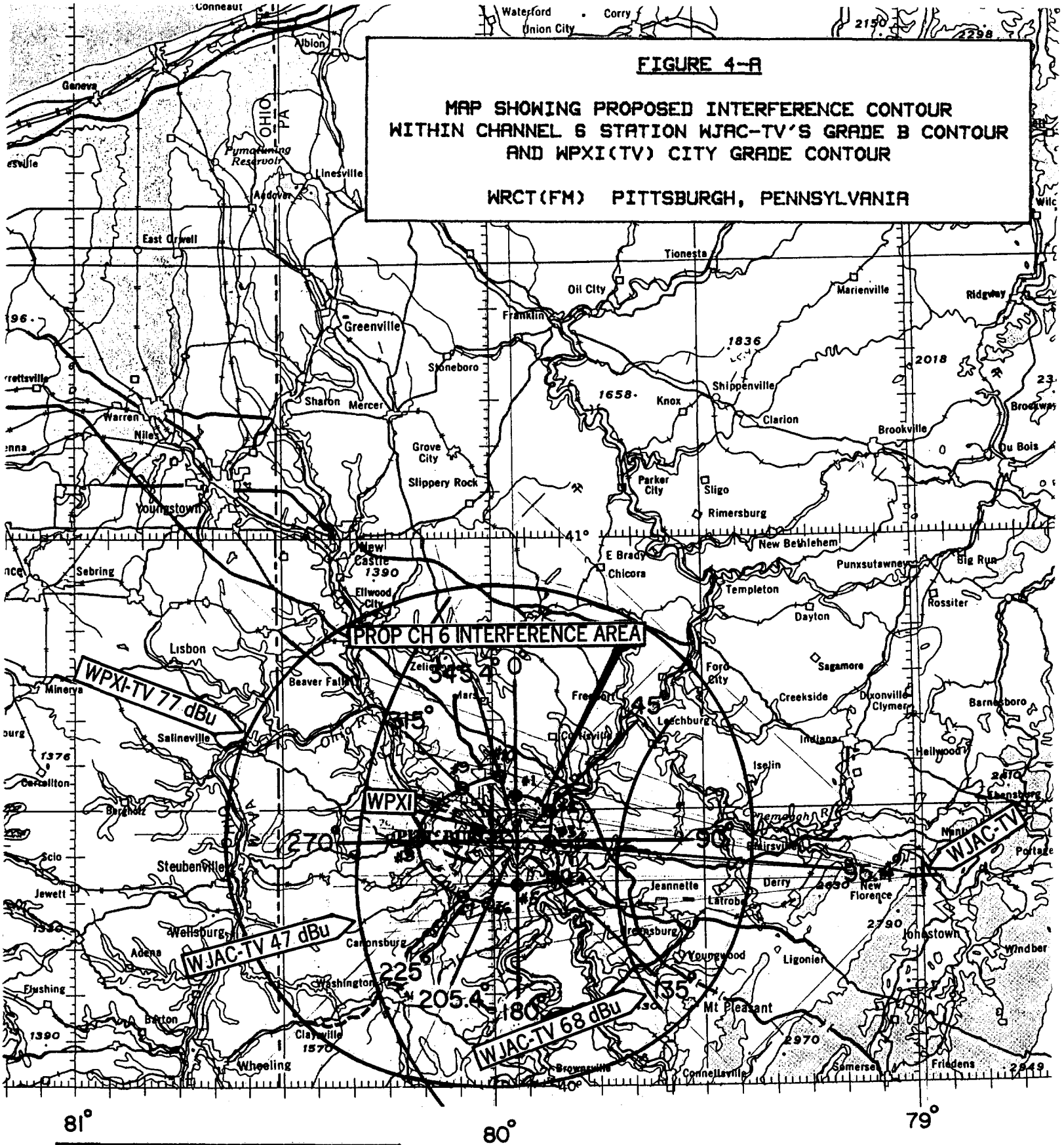
FIGURE 4-A
MAP SHOWING PROPOSED INTERFERENCE CONTOUR WITHIN CHANNEL 6 STATION WJAC-TV'S GRADE B CONTOUR AND WPXI(TV) CITY GRADE CONTOUR
WRCT(FM) PITTSBURGH, PENNSYLVANIA
PROP CH 6 INTERFERENCE AREA
WPXI-TV 77 dBu
WJAC-TV 47 dBu
WJAC-TV 68 dBu
WPXI
WJAC-TV
OHIO
PA
Conneaut
Albion
Geneva
Pymatuning Reservoir
Linesville
Addison
East Orwell
Greenville
Sharon
Mercer
Warren
Niles
Youngstown
Sebring
New Castle
Ellwood City
Lisbon
Minerva
Salineville
Beaver Falls
Steubenville
Jewett
Wellsburg
Adena
Flushing
Bolton
Wheeling
Claysville
Washington
Canonsburg
Burgettstown
Clarion
Brookville
Du Bois
Rimersburg
Sligo
Parker City
Grove City
Slippery Rock
Stoneboro
Franklin
Oil City
Tionesta
Marienville
Ridgway
Knox
Shippenville
New Bethlehem
Punxsutawney
Big Run
Templeton
Dayton
Rossiter
Chicora
E Brady
Sagamore
Ford City
Creekside
Leechburg
Indiana
Iselin
Hellwood
Ebensburg
Johnstown
Windber
Ligonier
Latrobe
Jeannette
Derry
New Florence
Youngwood
Mt Pleasant
Connellsville
Brownsville
Somerset
Friedens
Barnesboro
Clymer
Dixonville
Portage
Nanty
Cresson
Cherrytree
Ashland
Burgettstown
Carrollton
Scio
Bergholz
Zelienople
Mars
Freeport
Cornplanter
Cherrytree
1376
1390
1570
1658
1836
2018
2150
2298
2790
2970
2849
41°
40°
81°
80°
79°
World Aeronautical Chart
LAKE ERIE (309)
Scale 1:1,000,000
Kilometers
Nautical Miles
Statute Miles

FIGURE 4-B

TABULATION OF TV CHANNEL 6 INTERFERENCE CALCULATIONS AT POINTS ON PREDICTED FM INTERFERENCE CONTOUR

WRCT(FM), PITTSBURGH, PA
WJAC-TV, JOHNSTOWN, PA

	[---Desired Signal from TV Channel 6---]				S73.599 Figure 1 U/D Ratio -dB- (B)	[--Undesired Signal from Proposed FM---]					
Point #	Dist-km	Bear-°T	Ant Ht AboveAve-m	F(50,50) Signal-dBu (A)		Dist-km	Bear-°T	Ant Ht AboveAve-m	F(50,10) Signal-dBu	Directivity Adjust-dB (C)	F(50,10) FM Intrf Signal-dBu (A)+(B)+(C)
1	83.2	282.0	492	59.8	-0.8	8.8	0.0	15.8	65.0	6.0	65.0
2	76.2	281.0	488	62.6	-1.6	8.9	45.0	59.4	67.0	6.0	67.0
3	75.3	276.5	484	62.7	-1.7	6.1	90.0	-3.5	67.0	6.0	67.0
4	74.0	271.0	477	63.0	-1.8	9.8	135.0	55.3	67.2	6.0	67.2
5	81.8	270.0	473	59.9	-0.9	8.7	180.0	10.8	65.0	6.0	65.0
6	87.4	267.5	464	57.2	0.0	13.8	205.4	-15.2	57.2	0.0	57.2
7	92.2	268.5	467	55.2	+0.7	14.9	225.0	-8.8	55.9	0.0	55.9
8	102.0	275.0	486	51.7	+1.9	19.9	270.0	41.4	53.6	0.0	53.6
9	93.9	282.0	492	55.1	+0.7	15.0	315.0	4.7	55.8	0.0	55.8
10	87.1	284.5	493	58.1	-0.3	13.3	345.4	20.2	57.8	0.0	57.8

All Antenna Heights above Average Terrain were determined using the NGDC 30-Second Terrain Database

FIGURE 4-C

TV CHANNEL 6 INTERFERENCE STUDY

EXPLANATION OF CONCLUSIONS

The closest TV Channel 6 station is WJAC-TV in Johnstown, Pennsylvania, located 82.0 kilometers away. Figure 4-A, attached, is a map showing the calculated Grade B (47 dBu) contour of WJAC-TV. Also shown is the predicted interference contour of WRCT using the power level and directional antenna pattern proposed herein. This contour was calculated in accordance with Section 73.525(e)(1) of the FCC Rules. The following procedure was used in the calculations:

Ten radials from WRCT were evaluated (the eight standard radials plus 205.4° and 345.4°) to determine a set of ten points (one point per radial) such that at each point, the ratio of the undesired FM signal (from the F(50,10) curves) to the desired TV signal (from the F(50,50) curves) is equal to the required U/D ratio for the corresponding TV signal level as given in Figure 1 of Section 73.599. For the 220-degree arc centered at the bearing from WRCT to WJAC-TV, which is 345.4° True clockwise to 205.4° True, an adjustment of +6 dB was added to each of the FM interfering field strength levels to account for TV antenna directivity, since the predicted interference area is well outside of WJAC-TV's predicted Grade A contour. A smooth curve was then drawn through the ten points thus determined.

Figure 4-B is a tabulation showing the calculated FM and TV signal levels at each of the ten points on the interference contour. As can be seen, for all ten points, the predicted unwanted FM signal is exactly equal to the field strength required for "just-perceptible" interference to the TV Channel 6 signal as derived from Figure 1 of Section 73.599, after directivity adjustment if appropriate. This means that the WRCT interference contour was correctly determined.

WJAC-TV is an affiliate of NBC. TV station WPXI, Channel 11 in Pittsburgh, is also an NBC-affiliate, and is located 5.3 kilometers from WRCT. The predicted Channel 6 inteference area is completely outside of the ADI market of WJAC-TV. Figure 4-A shows the predicted city grade (77 dBu) contour of WPXI. As can be seen, this contour completely encompasses the interference area. In accordance with 73.525(e)(3)(iii), the entire population within the interference area may be subtracted from the number of people predicted to receive interference, the result of which, of course, is zero. Therefore, the instant proposal is in substantial compliance with Section 73.525 of the FCC Rules.

CERTIFICATE OF SERVICE

I, Sharon Hinderer, Secretary in the law firm of **Putbrese, Hunsaker & Ruddy**, hereby certify that I have on this 30th day of September, 1992, sent, by United States Mail, Postage prepaid, copies of the foregoing, **"Petition for Leave to Amend"** to the following:

Hon. John M. Frysiak*
Administrative Law Judge
Federal Communications Commission
2000 L Street, NW
Room 223
Washington, DC 20554

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*Courtesy copy

Sharon Hinderer

Sharon Hinderer