

APPENDIX B

WKMC FIELD STRENGTH MEASUREMENTS

(extracted from WKMC 1978 full proof
of performance (BL-14,451))

EXHIBIT G-2

59° T RADIAL

No.	Dist. (mi.)	1 kw Non-Directional			5 kw Directional			DA/ND Ratio
		Date	Time	Measured Field Intensity (mv/m)	Date	Time	Measured Field Intensity (mv/m)	
1	0.25	2-09-78	8:47a	550	2-20-78	--	--	--
2	0.47	"	8:54a	285	"	4:43p	790	2.772
3	0.55	2-14-78	3:24p	250	2-21-78	2:42p	790	3.160
4	0.7	"	3:19p	175	"	2:49p	610	3.486
5	0.8	"	3:17p	155	"	2:51p	495	3.194
6	1.0	"	3:15p	100	"	2:55p	380	3.800
7	1.1	"	3:10p	88	"	2:57p	320	3.636
8	1.2	"	3:06p	85	"	2:58p	300	3.529
9	1.35	2-09-78	8:59a	72	2-20-78	4:34p	250	3.472
10	1.45	"	9:03a	76	"	4:30p	240	3.158
11	1.5	2-14-78	2:50p	67	2-21-78	3:00p	250	3.731
12	1.6	"	2:47p	70	"	2:35p	232	3.314
13	1.75	"	2:40p	71	"	2:31p	245	3.451
14	5.6	2-09-78	9:23a	3.35	2-20-78	4:15p	9.8	2.925
15	6.0	"	9:27a	3.6	"	4:12p	8.0	2.222
16	6.1	"	9:29a	3.4	"	4:11p	9.4	2.765
17	7.15	"	9:36a	2.5	"	4:05p	7.0	2.800
18	8.95	"	9:51a	1.5	"	3:56p	4.2	2.800
19	10.3	"	10:01a	1.1	"	3:47p	2.8	2.545
20	10.9	"	10:06a	1.2	"	3:42p	3.4	2.833
21	11.2	"	10:09a	1.0	"	3:40p	3.05	3.050
22	11.4	"	10:11a	.72	"	3:37p	2.25	3.125
23	12.4	"	10:17a	.9	"	3:14p	2.75	3.056
24	13.2	"	10:34a	1.0	"	3:26p	3.00	3.000
25	16.6	"	11:16a	.24	"	2:36p	.77	3.208
26	17.5	"	11:12a	.4	"	2:32p	1.3	3.250
27	18.15	"	11:06a	.39	"	2:25p	1.15	2.949
28	18.65	"	11:03a	.27	"	2:20p	.95	3.519

Average Ratio 3.139
Average Log Ratio 3.117

MILES FROM ANTENNA

EXHIBIT H-3

59° T RADIAL, 1 KW ND
WKMC
1370 KHZ, 5 KW, DA-D
ROARING SPRING, PA

MILLIVOLTS PER METER

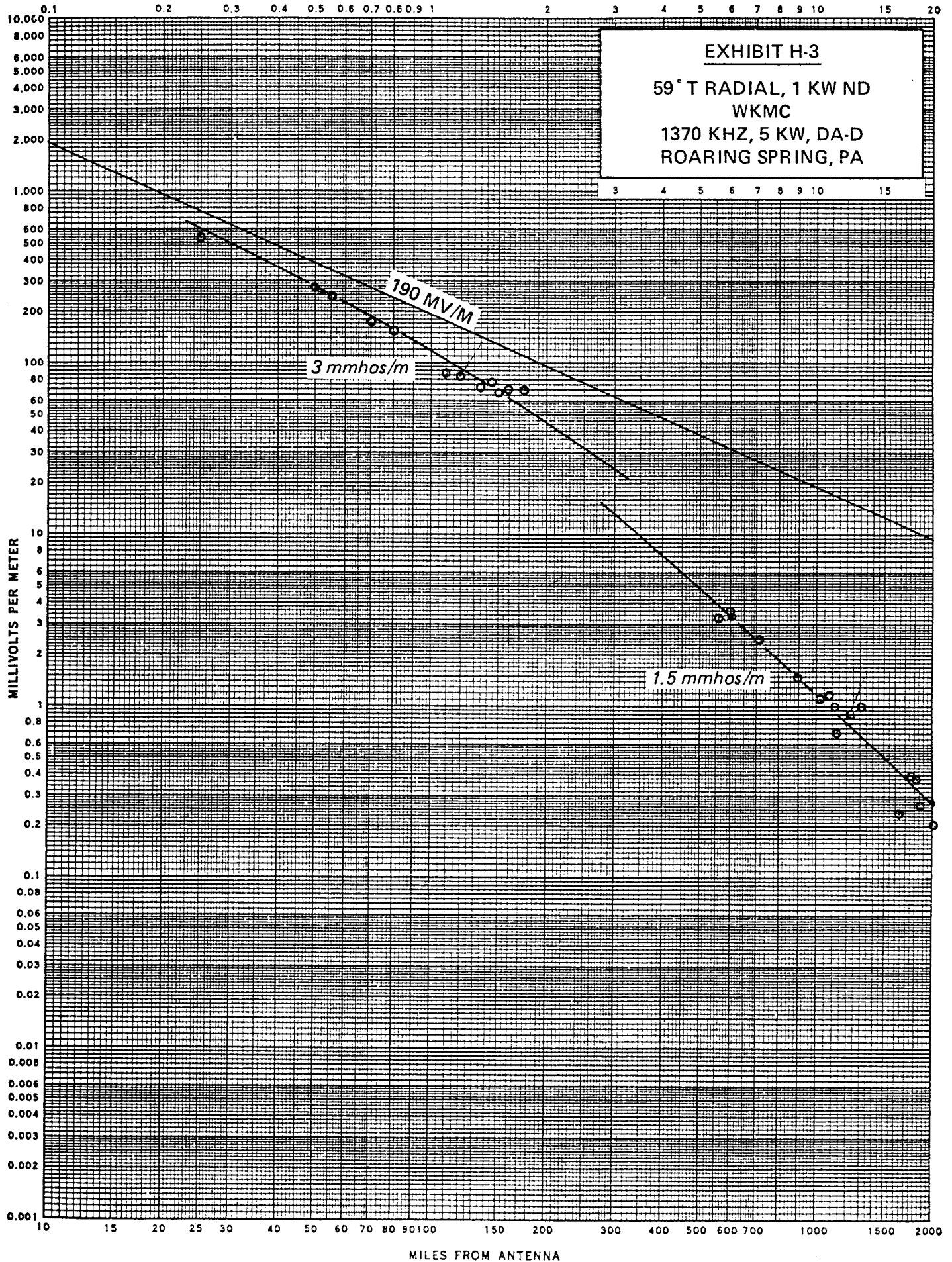


EXHIBIT G-3

100° T RADIAL

Pt. No.	Dist. (mi.)	1 kw Non-Directional			5 kw Directional			DA/ND Ratio
		Date	Time	Measured Field Intensity (mv/m)	Date	Time	Measured Field Intensity (mv/m)	
1	0.2	2-09-78	3:48p	960	--	--	--	--
2	0.3	2-14-78	3:50p	400	--	--	--	--
3	0.4	"	3:47p	335	--	--	--	--
4	0.5	"	3:45p	235	2-21-78	3:14p	520	2.213
5	0.6	"	3:43p	200	"	3:13p	460	2.300
6	0.7	2-09-78	3:44p	145	2-20-78	4:46p	350	2.414
7	0.8	2-14-78	4:00p	170	2-21-78	3:22p	285	1.676
8	0.9	"	4:02p	120	"	3:24p	265	2.208
9	1.0	"	4:04p	120	"	3:26p	245	2.042
10	1.1	"	4:07p	125	"	3:29p	220	1.760
11	1.2	"	4:08p	115	"	3:32p	190	1.652
12	1.3	"	4:10p	100	"	3:35p	175	1.750
13	1.4	"	4:12p	99	"	3:36p	160	1.616
14	1.7	"	4:14p	84	"	3:40p	115	1.369
15	2.45	2-09-78	3:35p	37.5	"	8:50a	87	2.320
16	3.25	"	3:05p	21	"	8:54a	47	2.238
17	3.8	"	3:02p	23.5	"	8:28a	59	2.511
18	4.22	"	2:57p	17.0	"	9:04a	41.5	2.441
19	5.1	"	2:53p	11	"	9:09a	24	2.182
20	5.65	"	2:49p	11	"	9:11a	20	1.818
21	6.25	"	2:45p	8.2	"	9:17a	17	2.073
22	8.45	"	2:31p	2.0	"	9:31a	4.9	2.450
23	9.65	"	2:26p	1.5	"	9:37a	3.5	2.333
24	12.4	"	1:50p	.4	"	9:56a	.92	2.300
25	13.6	"	1:45p	.9	"	10:02a	2.05	2.278
26	14.6	"	1:40p	.9	"	10:13a	2.1	2.333
27	16.1	"	1:12p	.45	"	11:58a	1.0	2.222
28	17.35	"	1:02p	.39	"	12:02p	.87	2.231
29	18.3	"	12:56p	.56	"	12:07p	1.25	2.232
30	19.9	"	12:34p	.34	"	12:20p	.71	2.088

Average Ratio 2.113
Average Log Ratio 2.090

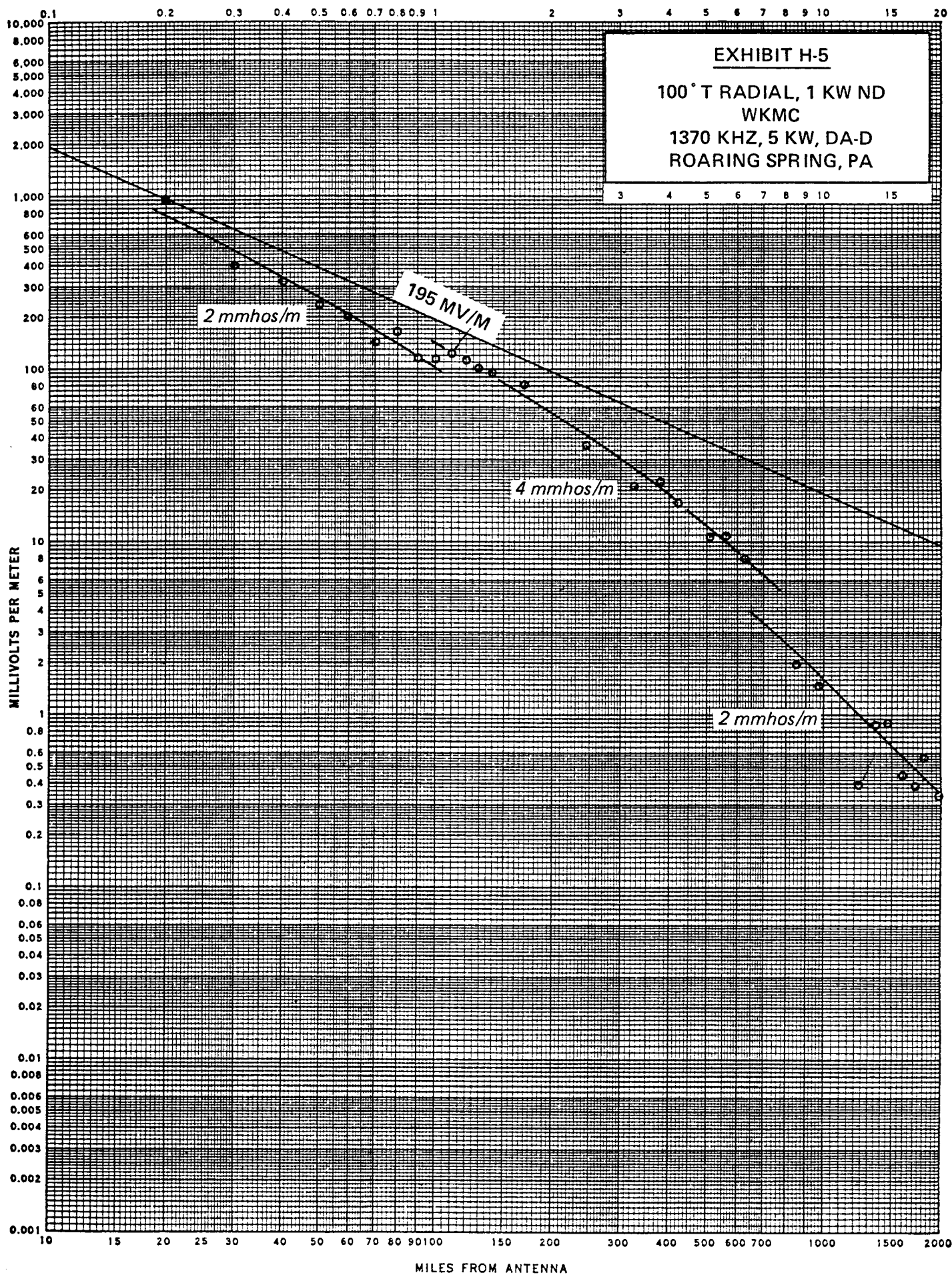


EXHIBIT G-4

140.2 T RADIAL

No.	Dist. (mi.)	1 kw Non-Directional			5 kw Directional			DA/ND Ratio
		Date	Time	Measured Field Intensity (mv/m)	Date	Time	Measured Field Intensity (mv/m)	
1	0.25	2-09-78	3:51p	660	--	--	--	--
2	0.3	2-14-78	4:32p	490	--	--	--	--
3	0.4	"	4:35p	360	--	--	--	--
4	0.5	"	4:37p	350	2-21-78	4:40p	390	1.114
5	0.7	"	4:39p	250	"	4:38p	280	1.120
6	0.8	"	4:44p	210	"	4:36p	245	1.167
7	0.9	"	4:47p	175	"	4:34p	195	1.114
8	1.0	"	4:51p	135	"	4:28p	170	1.259
9	1.1	"	4:53p	130	"	4:30p	155	1.192
10	1.2	2-09-78	3:56p	135	2-17-78	9:22a	120	.889
11	1.35	2-14-78	5:06p	80	2-21-78	4:03p	86	1.075
12	1.45	"	5:07p	75	"	4:05p	115	1.533
13	1.7	"	5:14p	69	"	4:07p	75	1.087
14	1.8	"	5:17p	67	"	4:10p	68	1.015
15	1.9	"	5:19p	62	"	4:15p	66	1.065
16	2.0	"	5:21p	62	"	4:13p	60	.968
17	2.1	2-09-78	4:02p	48.5	2-17-78	9:28a	56	1.155
18	2.95	"	4:07p	29	"	9:32a	32	1.103
19	3.5	"	4:11p	24	"	9:36a	26	1.083
20	4.25	"	4:19p	22	"	9:41a	23	1.045
21	4.85	"	4:23p	6.8	"	9:44a	7.8	1.147
22	5.65	"	4:28p	12	"	9:47a	13	1.083
23	7.00	2-10-78	9:16a	7.2	"	9:54a	6	.833
24	7.85	"	9:23a	9.0	"	10:01a	9.2	1.022
25	8.1	"	9:30a	7.6	"	10:09a	7.2	.947
26	9.4	"	10:04a	2.4	"	10:40a	1.9	.792
27	10.25	"	10:08a	1.8	"	10:44a	1.5	.833
28	12.0	"	10:13a	2.1	"	11:49a	2.0	.952
29	13.2	"	10:25a	1.0	"	11:07a	1.0	1.000
30	14.15	"	10:37a	0.6	"	11:21a	.55	.917
31	15.7	"	10:46a	0.74	"	11:35a	.7	.946
32	16.75	"	10:59a	0.74	"	11:42a	.75	1.014
33	17.7	"	11:03a	1.00	"	11:46a	1.1	1.100

Average Ratio 1.052
Average Log Ratio 1.043

MILES FROM ANTENNA

EXHIBIT H-7

140.2° T RADIAL, 1 KW ND
WKMC
1370 KHZ, 5 KW, DA-D
ROARING SPRING, PA

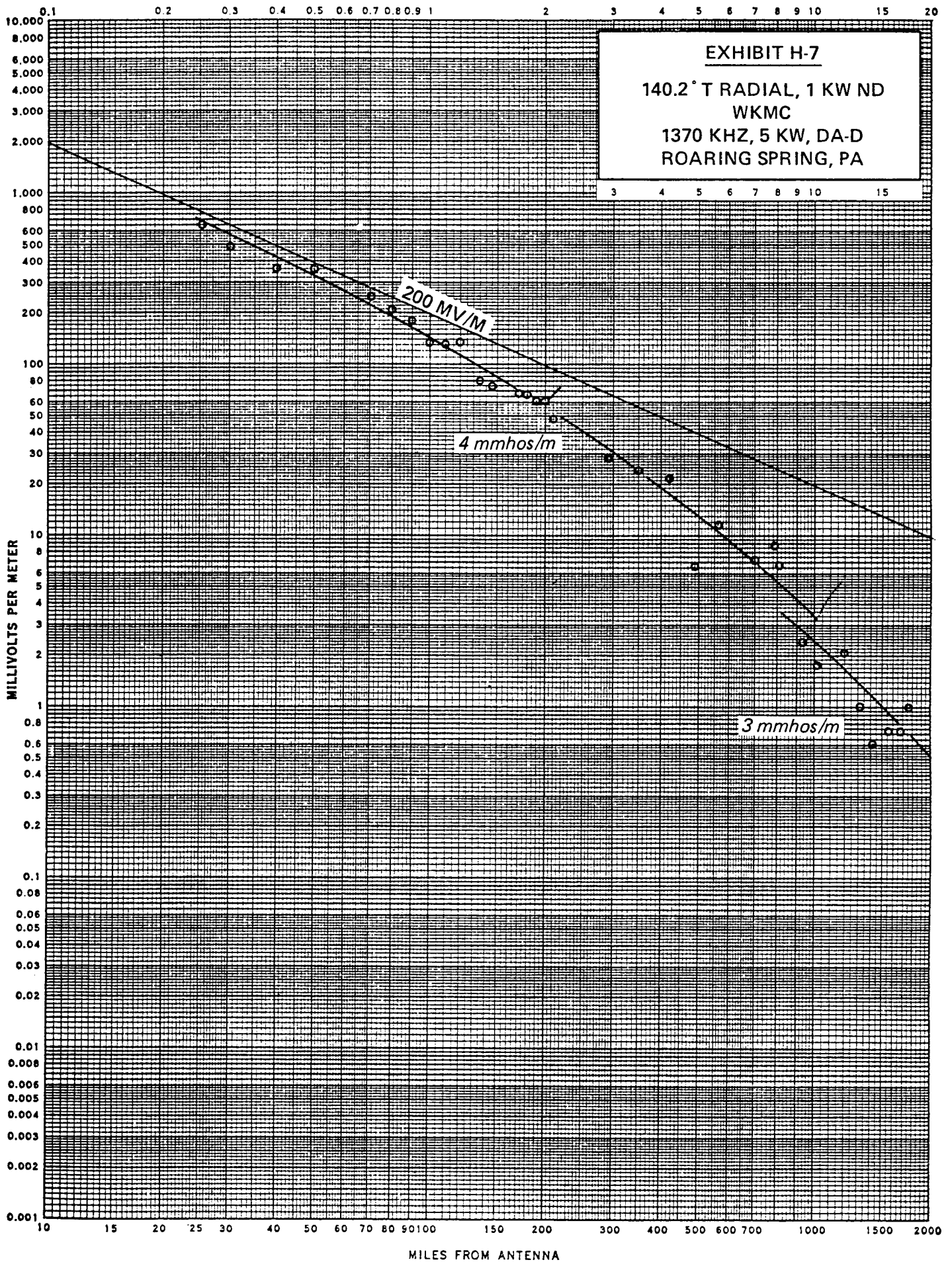


EXHIBIT G-5

198° T RADIAL

No.	Dist. (mi.)	1 kw Non-Directional			5 kw Directional			Ratio
		Date	Time	Measured Field Intensity (mv/m)	Date	Time	Measured Field Intensity (mv/m)	
1	0.2	2-10-78	3:17p	880	--	--	--	--
2	0.4	2-15-78	9:29a	600	--	--	--	--
3	0.52	"	9:23a	375	2-22-78	9:12a	560	1.493
4	0.62	"	9:18a	300	"	9:11a	500	1.667
5	0.7	2-10-78	3:12p	220	2-17-78	4:18p	375	1.705
6	0.9	2-15-78	9:36a	170	2-22-78	9:20a	290	1.706
7	1.0	"	9:39a	140	"	9:22a	230	1.643
8	1.1	"	9:42a	125	"	9:23a	200	1.600
9	1.2	"	9:47a	105	"	9:24a	170	1.619
10	1.4	2-10-78	3:09p	86	2-17-78	4:24p	120	1.395
11	1.5	2-15-78	10:07a	70	2-22-78	9:43a	130	1.857
12	1.6	"	10:13a	82	"	9:40a	130	1.585
13	1.7	2-10-78	3:05p	75	2-17-78	4:27p	130	1.733
14	2.3	"	2:59p	49	"	4:31p	56	1.143
15	3.0	"	2:55p	23.5	"	4:34p	41.5	1.766
16	3.7	"	2:50p	16	"	4:40p	26	1.625
17	4.42	"	2:32p	14	"	4:43p	22.5	1.607
18	5.0	"	2:29p	6.8	"	4:46p	10	1.471
19	5.6	"	2:25p	8.5	2-18-78	9:15a	13.5	1.588
20	6.3	"	2:20p	10	"	9:19a	14.5	1.450
21	7.1	"	2:16p	6.7	"	9:23a	10.5	1.567
22	7.75	"	2:14p	6.7	"	9:26a	9.0	1.343
23	9.0	"	2:09p	5.6	"	9:33a	7.4	1.321
24	10.7	"	1:56p	3.8	"	9:41a	5.3	1.395
25	11.4	"	2:00p	3.3	"	9:47a	5.9	1.788
26	14	"	1:30p	1.0	"	11:02a	1.5	1.500
27	15.45	"	1:25p	.7	"	10:56a	1.2	1.714
28	16.6	"	1:22p	.8	"	10:52a	1.3	1.625
29	18.1	"	1:15p	.74	"	10:45a	1.0	1.351
30	19.9	"	1:09p	.62	"	10:21a	.92	1.484

Average Ratio 1.562
Average Log Ratio 1.554

198° T RADIAL EXISTING FACILITY
MAR 14 1978

MILES FROM ANTENNA

