

## APPENDIX F

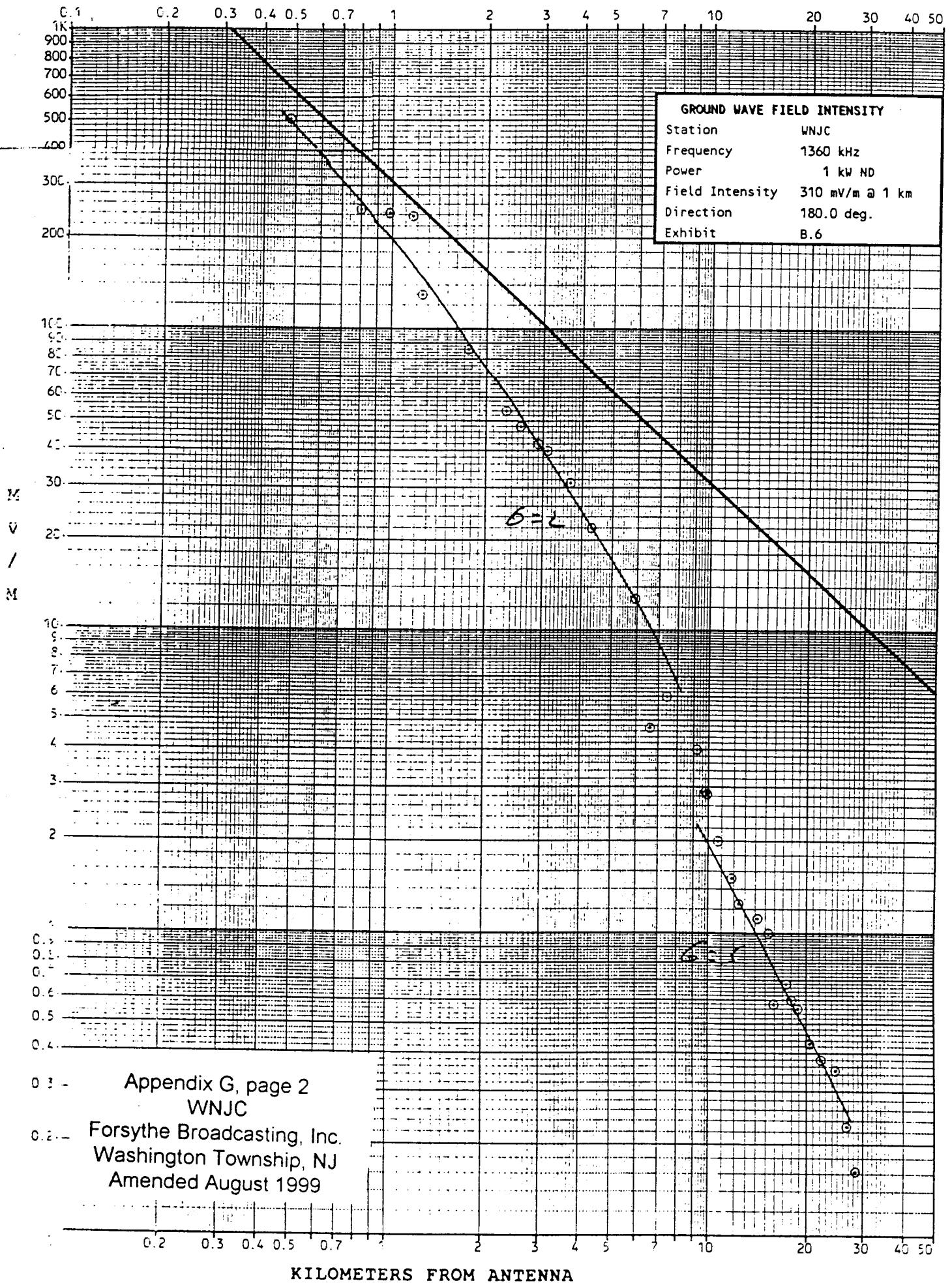
### WNJC FIELD STRENGTH MEASUREMENTS

(Extracted from WNJC 1999 Full Proof of  
Performance - BL-19990525DC)

WNJC  
orsythe Broadcasting, Inc.  
Washington Township, NJ  
Amended August 1999

180 Degree														
Point #	Dis. km	ND	Date	Time	DA-D	Day Ratio	Day Log Ratio	Date	Time	DA-N	Night Ratio	Night Log Ratio	Date	Time
1	0.48		510	09 JUL 99	1548									
2	0.64		365	09 JUL 99	1645									
3	0.8		250	09 JUL 99	1649									
4	0.98		243	09 JUL 99	1651									
5	1.16		238	09 JUL 99	1656									
6	1.25		130	06 AUG 99	921									
7	1.75		86	06 AUG 99	918		0	0			94	1.09302326	0.08894749	05 AUG 99 1315
8	2.3		54	06 AUG 99	914		0	0			65	1.2037037	0.18540322	05 AUG 99 1310
9	2.55		48	06 AUG 99	911		0	0			52	1.08333333	0.08004271	05 AUG 99 1256
10	2.9 ✓		42	06 AUG 99	908		0	0			48	1.14285714	0.13353139	05 AUG 99 1246
11	3.1 ✓		40	06 AUG 99	905		0	0			46	1.15	0.13976194	05 AUG 99 1246
12	3.68 ✓		31.2	16 JUN 99	1823		0	0			32.5	1.04166667	0.04082199	22 JUL 99 1215
13	4.3 ✓		22	16 JUN 99	1810		0	0			22.2	1.00909091	0.00904984	22 JUL 99 1223
14	5.9 ✓		12.8	16 JUN 99	1758		0	0			12.7	0.9921875	-0.0078432	22 JUL 99 1228
15	6.6 ✓		4.71	16 JUN 99	1746		0	0			5.8	1.23142251	0.20817001	22 JUL 99 1235
16	7.42 ✓		6	16 JUN 99	1741		0	0			8	1.33333333	0.28768207	22 JUL 99 1238
17	9.2 /		4	16 JUN 99	1715		0	0			4.2	1.05	0.04879016	22 JUL 99 1304
18	9.8		2.9	16 JUN 99	1656		0	0			3.85	1.32758621	0.28336241	22 JUL 99 1301
19	9.9		2.85	12 JUL 99	1224		0	0			4.2	1.47368421	0.38776553	02 AUG 99 1836
20	10.7		2	12 JUL 99	1338		0	0			2.95	1.475	0.38865799	02 AUG 99 1830
21	11.8		1.52	12 JUL 99	1342		0	0			1.84	1.21052632	0.19105524	02 AUG 99 1823
22	12.4		1.25	12 JUL 99	1351		0	0			1.61	1.288	0.25309063	02 AUG 99 1843
23	14.2		1.12	12 JUL 99	1402		0	0			1.55	1.38392857	0.32492625	02 AUG 99 1848
24	15.3		1	12 JUL 99	1405		0	0			1.48	1.48	0.39204209	02 AUG 99 1851
25	15.9		0.58	12 JUL 99	1415		0	0			1.04	1.79310345	0.58394789	02 AUG 99 1855
26	17.4		0.68	12 JUL 99	1424		0	0			0.9	1.32352941	0.28030197	02 AUG 99 1909
27	17.75		0.6	12 JUL 99	1429		0	0			0.89	1.48333333	0.39429181	02 AUG 99 1243
28	18.8		0.56	12 JUL 99	1436		0	0			0.86	1.53571429	0.42899561	02 AUG 99 1249
29	20.5		0.43	12 JUL 99	1443		0	0			0.51	1.18604651	0.17062552	02 AUG 99 1254
30	22.2		0.38	12 JUL 99	1453		0	0			0.64	1.68421053	0.52129692	02 AUG 99 1300
31	24.6		0.35	12 JUL 99	1500		0	0			0.47	1.34285714	0.29479954	02 AUG 99 1314
32	26.6		0.23	12 JUL 99	1510		0	0			0.32	1.39130435	0.33024169	02 AUG 99 1323
33	28.4	0.163	12 JUL 99	1516			0	0			0.27	1.65644172	0.50467176	04 AUG 99 1330
						ERR	ERR	ERR						

# KILOMETERS FROM ANTENNA



## Appendix H, page 1

WNJC

Forsythe Broadcasting, Inc.

Washington Township, NJ

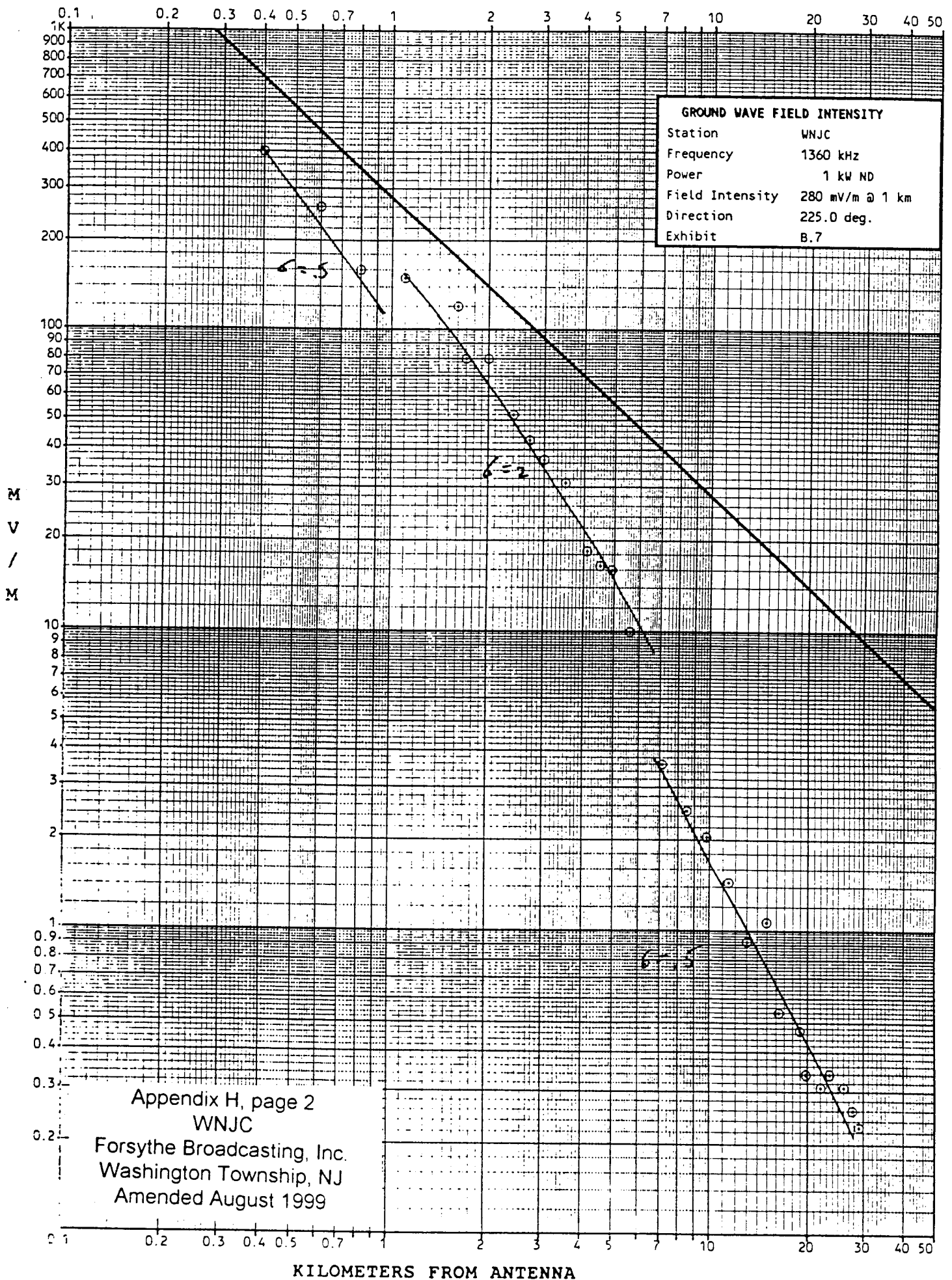
Amended August 1999

25 Degree

Point #	Dis. km	ND	Date	Time	DA-D	Day Ratio	Day Log Ratio	Date	Time	DA-N	Night Ratio	Night Log Ratio	Date	Time
1	0.4		400	03 AUG 99	1135									
2	0.6		260	19 JUL 99	1315									
3	0.8		160	03 AUG 99	1158									
4	1.1		150	03 AUG 99	1205									
5	1.6		120	03 AUG 99	1358									
6	1.7		80	03 AUG 99	1216						73	0.9125	-0.0915672	04 AUG 99 1642
7	2		80	03 AUG 99	1235						62	0.775	-0.2548922	04 AUG 99 1646
8	2.4		52	03 AUG 99	1220						29	0.55769231	-0.5839479	04 AUG 99 1648
9	2.7		43	03 AUG 99	1243						43	1	0	04 AUG 99 1652
10	3		37	03 AUG 99	1256						35	0.94594595	-0.0555699	04 AUG 99 1655
11	3.5 ✓		31	03 AUG 99	1310						26	0.83870968	-0.1758907	04 AUG 99 1710
12	4.1 ✓		18.5	03 AUG 99	1316						16	0.86486486	-0.145182	04 AUG 99 1713
13	4.5 ✓		16.5	03 AUG 99	1320						12.5	0.75757576	-0.2776317	04 AUG 99 1720
14	4.9 ✓		16	03 AUG 99	1334						13	0.8125	-0.2076394	04 AUG 99 1728
15	5.6 ✓		10	03 AUG 99	1338						7.4	0.74	-0.3011051	04 AUG 99 1738
16	7.1 ✓		3.6	03 AUG 99	1348						3.1	0.86111111	-0.1495317	04 AUG 99 1746
17	8.5 ✓		2.5	16 JUL 99	1120						3.05	1.22	0.19885086	20 JUL 99 1247
18	9.8 ✓		2.05	16 JUL 99	1133						2.78	1.35609756	0.30461113	20 JUL 99 1318
19	11.4		1.45	16 JUL 99	1144						1.88	1.29655172	0.25970822	20 JUL 99 1324
20	13		0.92	16 JUL 99	1154						1.05	1.14130435	0.13217177	20 JUL 99 1330
21	14.9		1.07	16 JUL 99	1205						1.26	1.17757009	0.16345307	20 JUL 99 1337
22	16.32		0.54	16 JUL 99	1218						0.69	1.27777778	0.24512246	20 JUL 99 1342
23	18.92		0.47	16 JUL 99	1231						0.6	1.27659574	0.24419696	20 JUL 99 1348
24	19.8		0.34	16 JUL 99	1350						0.465	1.36764706	0.31309179	20 JUL 99 1354
25	22.03		0.31	16 JUL 99	1404						0.292	0.94193548	-0.0598185	20 JUL 99 1359
26	23.5		0.34	16 JUL 99	1411						0.44	1.29411765	0.25782911	20 JUL 99 1747
27	26		0.31	16 JUL 99	1427						0.42	1.35483871	0.30368241	20 JUL 99 1758
28	27.7		0.26	16 JUL 99	1416						0.31	1.19230769	0.17589067	20 JUL 99 1812
29	29		0.229	16 JUL 99	1422						0.275	1.20087336	0.18304909	20 JUL 99 1820
Avg Ratio											1.04848	0.020821		
Log Avg Ratio												1.021039		

Non Directional Field 280 mV/m  
 Measured DA-N 285.891 mV/m  
 DA-N Limit 427.7 mV/m

# KILOMETERS FROM ANTENNA



Appendix I, page 1  
 WNJC  
 Forsythe Broadcasting, Inc.  
 Washington Township, NJ  
 Amended August 1999.

254.5 degree

Point #	Dis. km	ND	Date	Time	DA-D	Day Ratio	Day Log Ratio	Date	Time	DA-N
1	0.4	420	28 JUL 99	1215						
2	0.5	390	28 JUL 99	1217						
3	0.6	280	28 JUL 99	1220						
4	1.28	120	19 JUL 99	736						
5	1.4	120	19 JUL 99	745						
6	2	56	19 JUL 99	820						
7	2.23	55	19 JUL 99	752						
8	2.5	46.5	19 JUL 99	759						
9	2.7	46	19 JUL 99	803						
10	3.2	26	19 JUL 99	812						
11	3.4	34	07 AUG 99	1005						
12	4.1	26	07 AUG 99	1016						
13MP	4.65	22	07 AUG 99	1020						
14	5.9	12	07 AUG 99	1032						
15	6.5	10	07 AUG 99	1041						
16	6.83	9.7	16 JUL 99	1526						
17	7.2	9.6	07 AUG 99	1046						
18	7.4	7.2	07 AUG 99	1049						
19	8.3	5.3	16 JUL 99	1536						
20	8.9	5.5	16 JUL 99	1820						
21	9.9	3.2	16 JUL 99	1812						
22	11.3	2.8	16 JUL 99	1758						
23	11.6	3.2	16 JUL 99	1752						
24	13.6	2.1	16 JUL 99	1745						
25	14.2	1.15	16 JUL 99	1728						
26	15.95	1.3	16 JUL 99	1714						
27	17.75	1	16 JUL 99	1636						
28	19.2	0.95	16 JUL 99	1612						
29	20.35	0.7	16 JUL 99	1554						
30	23.15	0.65	16 JUL 99	1536						
31	23.92	0.565	20 JUL 99	1553						
32	26.38	0.385	20 JUL 99	1545						
33	28.5	0.315	20 JUL 99	1529						

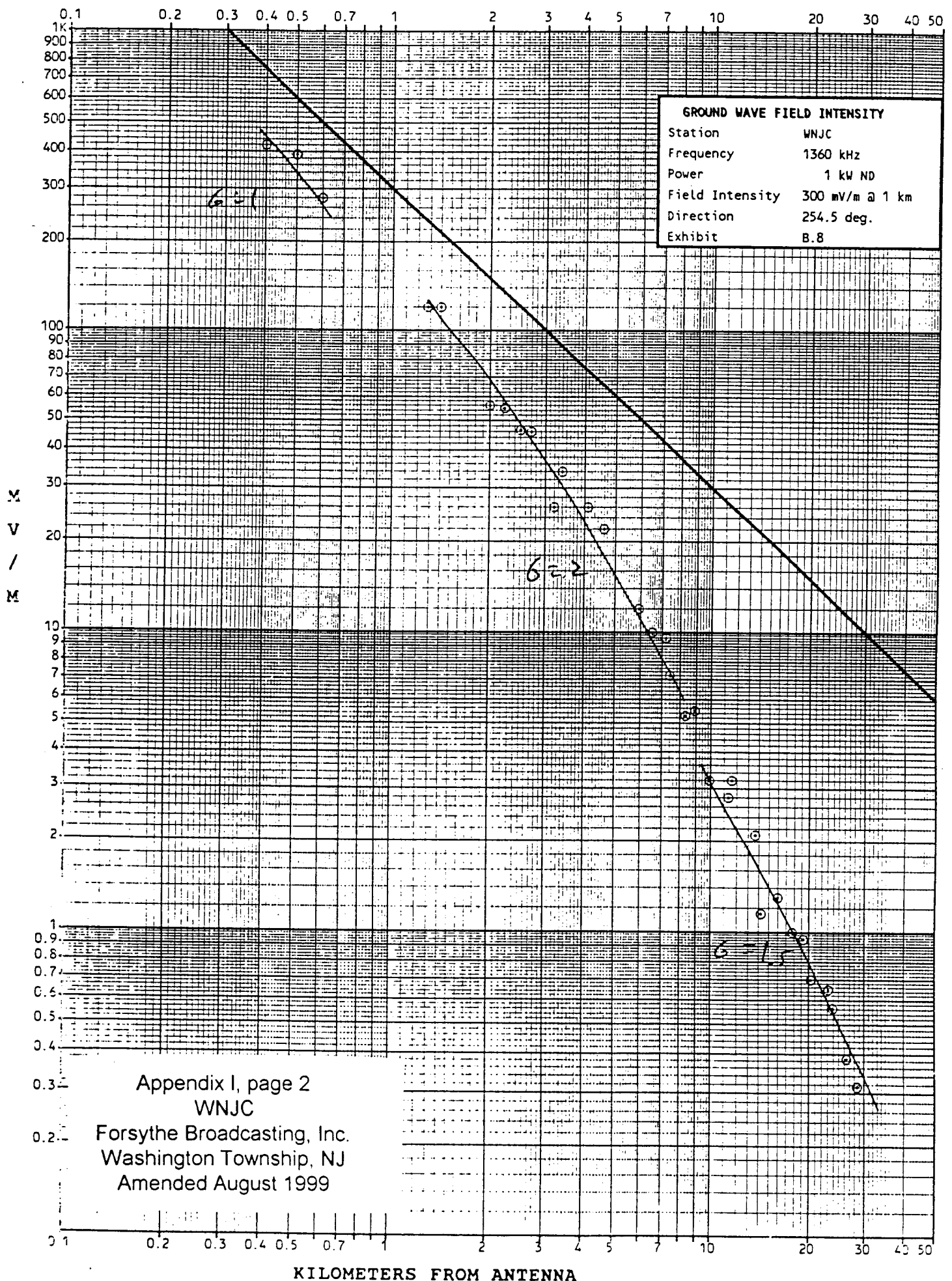
Avg Ratio  
 Log Ratio

0.739697 -0.30819  
 0.734773

Non-Directional Field  
 Measured DA-D  
 DA-D Limit

300 mV/m  
 220.432 mV/m  
 310.7 mV/m

# KILOMETERS FROM ANTENNA



Appendix I, page 2

WNJC

Forsythe Broadcasting, Inc.

Washington Township, NJ

Amended August 1999

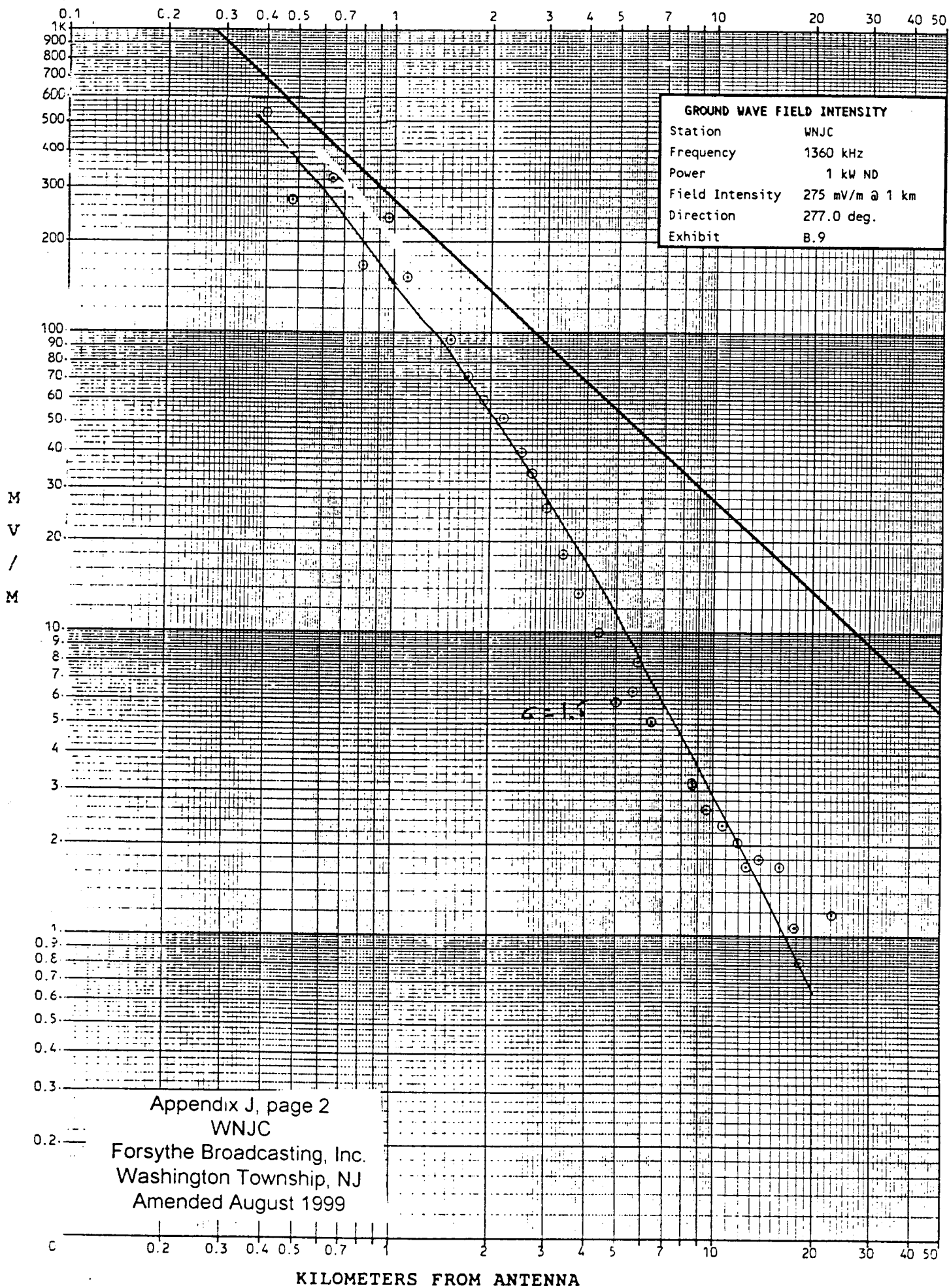
WNJC  
Forsythe Broadcasting, Inc.  
Washington Township, NJ  
Amended August 1999

277 Degree Point #	Dis. km	ND	Date	Time	DA-N	Night Log	Night Log Ratio	Date	Time
1	0.4		540 07 JUL 99	1556					
2	0.48		275 03 JUL 99	1635					
3	0.64		325 07 JUL 99	1602					
4	0.8		168 07 JUL 99	1614					
5	0.96		240 07 JUL 99	1620					
6	1.1		153 03 JUN 99	1247					
7	1.5		95 28 JUL 99	1125	27	0.284211	-1.25804	30 JUL 99	1325
8	1.7		72 28 JUL 99	1130	17	0.236111	-1.44345	30 JUL 99	1327
9	1.9		60 28 JUL 99	1500	17	0.283333	-1.26113	30 JUL 99	1330
10	2.2		52 28 JUL 99	1507	13	0.25	-1.38629	30 JUL 99	1336
11	2.5		40 28 JUL 99	1511	9.4	0.235	-1.44817	30 JUL 99	1338
12	2.7		34 28 JUL 99	1514	9	0.264706	-1.32914	30 JUL 99	1341
13	3 ✓		26 28 JUL 99	1520	8.6	0.330769	-1.10633	30 JUL 99	1345
14	3.4 ✓		18.2 03 JUN 99	1259	4.2	0.230769	-1.46634	01 AUG 99	1703
15	3.8 ✓		13.5 03 JUN 99	1307	3.35	0.248148	-1.39373	01 AUG 99	1708
16MP	4.4 ✓		10 03 JUN 99	1312	2.25	0.225	-1.49165	01 AUG 99	1713
	5 ✓		5.9 03 JUN 99	1321	1.68	0.284746	-1.25616	01 AUG 99	1815
	5.63 ✓		6.4 03 JUN 99	2127	1.32	0.20625	-1.57867	01 AUG 99	1720
	5.84 ✓		8 13 JUL 99	1550	1.3	0.1625	-1.81708	01 AUG 99	1728
	6.43 ✓		5.5 13 JUL 99	1556	0.84	0.152727	-1.8791	01 AUG 99	1737
	8.61 ✓		3.2 03 JUN 99	2200	0.47	0.146875	-1.91817	01 AUG 99	1748
	9.55 ✓		2.62 13 JUL 99	1516	0.44	0.167939	-1.78415	01 AUG 99	1800
			2.33 13 JUL 99	1509	0.55	0.236052	-1.44371	26 JUL 99	1313
			2.05 13 JUL 99	1456	0.38	0.185366	-1.68542	26 JUL 99	1850
			1.7 13 JUL 99	1445	0.33	0.194118	-1.63929	26 JUL 99	1737
24	11.9		2.05 13 JUL 99	1456	0.38	0.185366	-1.68542	26 JUL 99	1850
25	12.6		1.7 13 JUL 99	1445	0.33	0.194118	-1.63929	26 JUL 99	1737
26	13.8		1.8 13 JUL 99	1429	0.44	0.244444	-1.40877	26 JUL 99	1341
27	15.9		1.7 13 JUL 99	1406	0.43	0.252941	-1.3746	26 JUL 99	1754
28	17.7		1.07 13 JUL 99	1346	0.25	0.233645	-1.45395	26 JUL 99	1806
29	18.4		0.82 26 JUL 99	1415	0.182	0.221951	-1.5053	26 JUL 99	1824
30	23.1		1.18 13 JUL 99	1317	0.216	0.183051	-1.69799	26 JUL 99	1353
							5.460652	-1.50111	
							0.222883		

Nondirectional Field 275 mV/m  
Measured DA-N 61.29272 mV/m  
DA-N Limit 63.3 mV/m



# KILOMETERS FROM ANTENNA



WNJC  
Forsythe Broadcasting, Inc.  
Washington Township, NJ  
Amended August 1999

310 Degree

Point #	Dis. km	ND	Date	Time	DA-D	Day Ratio	Day Log Ratio	Date	Time	DA-N	Night Log	Night Log Ratio	Date	Time
1	0.48		400 03 JUL 99		1446									
2	0.64		295 03 JUL 99		1456									
3	0.77		242 03 JUL 99		1502									
4	0.97		168 03 JUL 99		1508									
5	1.1		162 03 JUL 99		1518									
6	1.5		99 27 JUL 99		1408	0	0				54 0.545455	-0.60614	27 JUL 99	1315
7	1.7		78 27 JUL 99		1415	0	0				48 0.615385	-0.48551	27 JUL 99	1322
8	1.9		50 27 JUL 99		1421	0	0				36 0.72	-0.3285	27 JUL 99	1326
9	2.15		42 27 JUL 99		1447	0	0				27 0.642857	-0.44183	27 JUL 99	1615
10	2.35		42 27 JUL 99		1506	0	0				26 0.619048	-0.47957	27 JUL 99	1611
11	2.65		40 27 JUL 99		1530	0	0				26 0.65	-0.43078	27 JUL 99	1620
12	3		31 27 JUL 99		1537	0	0				18 0.580645	-0.54362	27 JUL 99	1623
MP-13	3.03 ✓		28 28 JUL 99		1333	0	0				10 0.357143	-1.02962	28 JUL 99	1618
	3.51		18.2 28 JUL 99		1338	0	0				7.5 0.412088	-0.88652	28 JUL 99	1629
	3.71		17 28 JUL 99		1345	0	0				7.7 0.452941	-0.79199	28 JUL 99	1637
	4.11		13.4 28 JUL 99		1347	0	0				6.8 0.507463	-0.67833	28 JUL 99	1644
	4.65		12.8 28 JUL 99		1356	0	0				5.2 0.40625	-0.90079	28 JUL 99	1650
	4.92		10.2 28 JUL 99		1359	0	0				3.4 0.333333	-1.09861	28 JUL 99	1656
	5.29 ✓		9.2 28 JUL 99		1401	0	0				8 0.869565	-0.13976	28 JUL 99	1707
	5.76		7.8 28 JUL 99		1404	0	0				2.9 0.371795	-0.98941	28 JUL 99	1714
	6.18		5.8 28 JUL 99		1408	0	0				2.9 0.5	-0.69315	28 JUL 99	1716
	6.39		7 28 JUL 99		1411	0	0				2.7 0.385714	-0.95266	28 JUL 99	1724
23	6.9		5.8 28 JUL 99		1413	0	0				2.15 0.37069	-0.99239	28 JUL 99	1732
24	9.5		2.52 28 JUL 99		1429	0	0				1.1 0.436508	-0.82895	28 JUL 99	1810
25	9.81 ✓		2.85 28 JUL 99		1420	0	0				1.2 0.421053	-0.865	28 JUL 99	1814
26	20.1		1.36 15 JUN 99		1411	0	0					0	0	
27	20.9		1.2 15 JUN 99		1348	0	0					0	0	
28	23.45		0.98 15 JUN 99		1053	0	0					0	0	
29	27.6		0.385 15 JUN 99		1035	0	0					0	0	
30	30.55		0.275 15 JUN 99		939	0	0					0	0	
						ERR	ERR				0.509897	-0.70816		
							ERR					0.492551		

Non-Directional Field  
Measured DA-D  
DA-D Limit

285 mV/m  
ERR mV/m  
162.8 mV/m

Non-Directional Field  
Measured DA-N  
DA-N Limit

285 mV/m  
140.3771 mV/m  
207.7 mV/m

# KILOMETERS FROM ANTENNA

