

APPENDIX A - AMENDED
FIELD STRENGTH MEASUREMENT DATA
WPEN, PHILADELPHIA, PENNSYLVANIA
950 kHz – Proposed 43 kW (Day) – DA-2

Supplement to Exhibit 14 & 15
Engineering Data

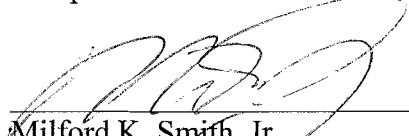
Affidavit

I am employed as Vice President of Engineering for Greater Media, Inc, the parent of Greater Philadelphia Radio, Inc., licensee of WPEN (AM) Philadelphia, PA. I have held this position the past 24 years and have over 40 years of experience in the field of broadcast engineering. My qualifications are a matter of record in the Federal Communications Commission. My experience in the taking of AM field strength measurements is extensive, running to the thousands of hours.

All measurements contained in the instant application on the WPEN 180 degree and WTGM 25 degree radials were taken by me.

The undersigned utilized a Potomac Model FIM-21 s/n1014 last calibrated on January 19, 2005.

I believe the data submitted to be true and accurate and collected utilizing good engineering practice and in conformance with all pertinent FCC Rules and Regulations.



Milford K. Smith, Jr.
Vice President/Engineering
Greater Media, Inc.

3-20-2008
Date

TABULATION OF
FIELD STRENGTH MEASUREMENTS
WPEN, PHILADELPHIA, PA
950 KHZ 5 kW DA-N
SEPTEMBER 2005

N 180° E

| <u>Point</u> <u>No.</u> | <u>Distance</u> km | <u>Date</u> | <u>Time</u> | 5 kW <u>ND-D</u> mV/m |
|----------------------------|-----------------------|-------------|-------------|-----------------------------|
| 1 | 30.6 | 4/4/96 | 1140 | 3.30 |
| 2 | 32.4 | " | 1153 | 2.90 |
| 3 | 35.3 | " | 1200 | 2.10 |
| 4 | 37.5 | " | 1218 | 2.00 |
| 5 | 39.5 | " | 1223 | 1.90 |
| 6 | 41.7 | " | 1231 | 1.30 |
| 7 | 45.1 | " | 1240 | 0.900 |
| 8 | 47.7 | " | 1250 | 0.850 |
| 9 | 50.1 | " | 1301 | 0.560 |
| 10 | 53.8 | " | 1311 | 0.47 |
| 11 | 56.6 | " | 1318 | 0.34 |
| 12 | 57.7 | " | 1322 | 0.28 |
| 13 | 59.1 | " | 1327 | 0.22 |
| 14 | 60.4 | " | 1336 | 0.19 |
| 15 | 61.2 | 8/8/05 | 1316 | 0.21 |
| 16 | 62.5 | " | 1322 | 0.20 |
| 17 | 64.1 | " | 1326 | 0.19 |
| 18 | 64.5 | " | 1330 | 0.21 |
| 19 | 67.3 | " | 1358 | 0.29 |
| 20 | 69.7 | " | 1407 | 0.28 |
| 21 | 70.3 | " | 1412 | 0.330 |
| 22 | 72.3 | " | 1425 | 0.330 |
| 23 | 73.5 | " | 1429 | 0.350 |
| 24 | 75.8 | " | 1457 | 0.310 |
| 25 | 79.5 | " | 1524 | 0.340 |
| 26 | 130.1 | 9/14/05 | 1318 | 0.290 |
| 27 | 135.7 | " | 1334 | 0.200 |
| 28 | 140.0 | " | 1346 | 0.120 |
| 29 | 146.2 | " | 1356 | 0.080 |
| 30 | 149.8 | " | 1413 | 0.065 |
| 31 | 154.8 | " | 1425 | 0.060 |
| 32 | 159.9 | " | 1440 | 0.048 |

Radial was re-measured from 55.2 kM to 159.9 kM in August 2007

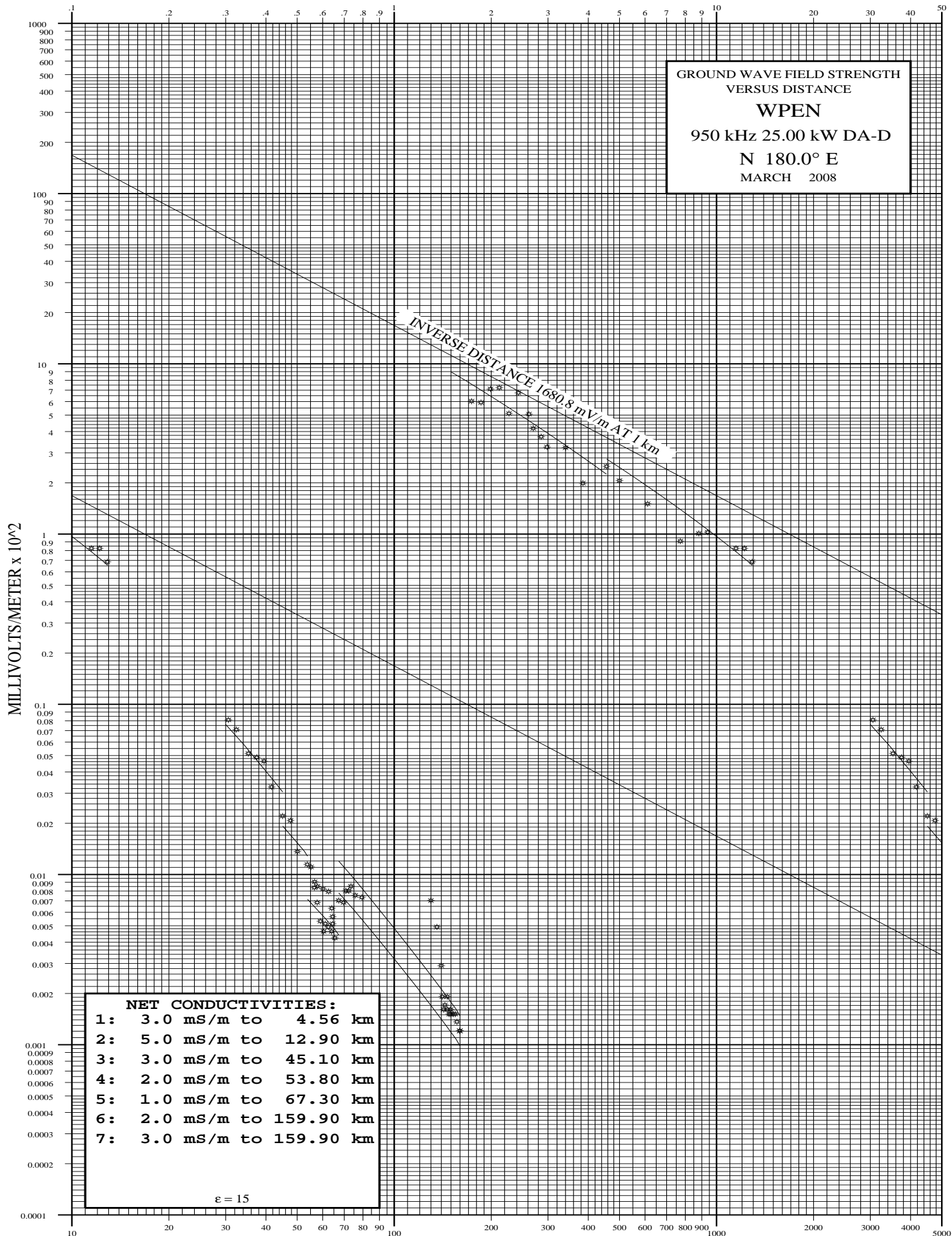
Note: 5 kW Field strength adjusted to 25 kW for plotting.

TABULATION OF
ADDITIONAL FIELD STRENGTH MEASUREMENTS
WPEN, PHILADELPHIA, PA
950 KHZ 25 kW DA-D
MARCH 2008

N 180° E

| <u>Point</u> <u>No.</u> | <u>Distance</u> km | <u>Date</u> | <u>Time</u> | 25 kW <u>DA-D</u> mV/m |
|----------------------------|-----------------------|-------------|-------------|------------------------------|
| 1 | 55.2 | 8/3/2007 | 944 | 1.00 |
| 2 | 56.7 | " | 956 | 0.90 |
| 3 | 57.8 | " | 1004 | 0.85 |
| 4 | 60.2 | " | 1006 | 0.82 |
| 5 | 62.6 | " | 1013 | 0.79 |
| 6 | 64.1 | " | 1019 | 0.63 |
| 7 | 64.5 | " | 1028 | 0.56 |
| 8 | 65.5 | " | 1035 | 0.42 |
| 9 | 67.3 | " | 1058 | 0.70 |
| 10 | 141.2 | 8/2/2007 | 1215 | 0.19 |
| 11 | 142.5 | " | 1220 | 0.16 |
| 12 | 143.8 | " | 1225 | 0.17 |
| 13 | 146.1 | " | 12.31 | 0.16 |
| 14 | 148.3 | " | 1237 | 0.15 |
| 15 | 149.8 | " | 1248 | 0.15 |
| 16 | 152.7 | " | 1300 | 0.15 |
| 17 | 156.6 | " | 1315 | 0.135 |
| 18 | 159.9 | " | 1323 | 0.12 |

KILOMETERS FROM ANTENNA



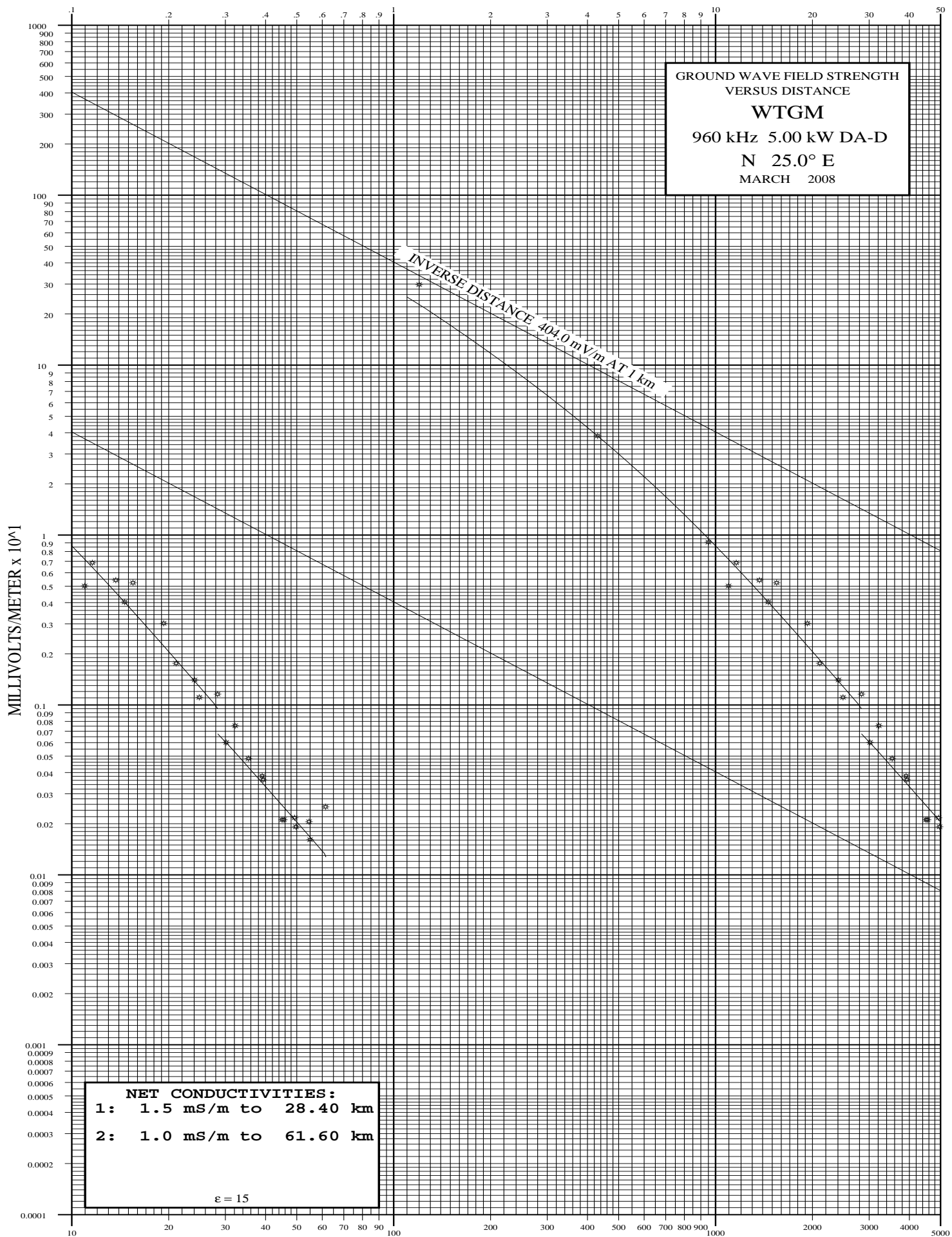
TABULATION OF
FIELD STRENGTH MEASUREMENTS
WTGM, SALISBURY, MD
960 KHZ 5 kW DA-2
MARCH 2008

N 25° E

| <u>Point</u> <u>No.</u> | <u>Distance</u> km | <u>Date</u> | <u>Time</u> | 5 kW <u>ND-D</u> mV/m |
|----------------------------|-----------------------|-------------|-------------|-----------------------------|
| 1 | 1.2 | 7/27/1998 | 944 | 295.00 |
| 2 | 4.3 | " | 1002 | 38.00 |
| 3 | 9.5 | " | 1028 | 9.00 |
| 4 | 11.6 | " | 1043 | 6.80 |
| 5 | 13.7 | " | 1137 | 5.40 |
| 6 | 15.5 | " | 1145 | 5.20 |
| 7 | 21.1 | " | 1158 | 1.750 |
| 8 | 24.1 | " | 1221 | 1.400 |
| 9 | 28.4 | " | 1229 | 1.150 |
| 10 | 32.2 | " | 1243 | 0.75 |
| 11 | 39.1 | " | 1245 | 0.38 |
| 12 | 45.6 | " | 1258 | 0.21 |
| 13 | 49.3 | " | 1302 | 0.215 |
| 14 | 54.6 | " | 1321 | 0.205 |
| 15 | 61.5 | " | 1331 | 0.25 |
| 3A | 11.0 | 3/14/2008 | 1210 | 5.00 |
| 5A | 14.6 | " | 1223 | 4.00 |
| 6A | 19.3 | " | 1234 | 3.00 |
| 8A | 24.9 | " | 1248 | 1.10 |
| 9A | 30.2 | " | 1259 | 0.60 |
| 10A | 35.4 | " | 1313 | 0.48 |
| 11A | 39.3 | " | 1323 | 0.36 |
| 11B | 45.1 | " | 1333 | 0.21 |
| 12A | 49.2 | " | 1346 | 0.19 |
| 14A | 55.0 | " | 1359 | 0.16 |

Points 1 through 15 from 1998 data, Points designated with A measured in March 2008

KILOMETERS FROM ANTENNA



KILOMETERS FROM ANTENNA

GROUND WAVE FIELD STRENGTH
VERSUS DISTANCE

WPEN

950 kHz 5.00 kW ND

N 230.0° E

NOVEMBER 1999

INVERSE DISTANCE 635.0 mV/km at 1 km

MILLIVOLTS/METER $\times 10^4$

NET CONDUCTIVITIES:
1: 3.0 mS/m to 154.10 km
2: 2.0 mS/m to 200.00 km
 $\epsilon = 15$

KILOMETERS FROM ANTENNA
COHEN, DIPPELL, and EVERIST, P.C.

