

FAA NOTIFICATION OR FCC TOWER REGISTRATION IS NOT REQUIRED

**ALL TOWERS PASS SLOPE TEST
CENTER OF ARRAY LOCATION USED FOR DETERMINATION**

DETERMINATION Results

PASS SLOPE(50:1): NO FAA REQ-RWY 10499 MTRS OR LESS & 8004.65 MTRS (8.00469) KM AWAY

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	42-33-52.00N	073-50-4.00W	SOUTH ALBANY	ALBANY SOUTH BETHLEHEM, NY	56.1	869.8999999999998

Your Specifications

NAD83 Coordinates

Latitude	42-35-23.3 north
Longitude	073-44-35.4 west

Measurements (Meters)

Overall Structure Height (AGL)	59.4
Support Structure Height (AGL)	59.4
Site Elevation (AMSL)	0.9

Structure Type

TOWER - Free standing or Guyed Structure used for Communications Purposes



**FAA NOTIFICATION AND/OR FCC TOWER REGISTRATION
NOT REQUIRED**

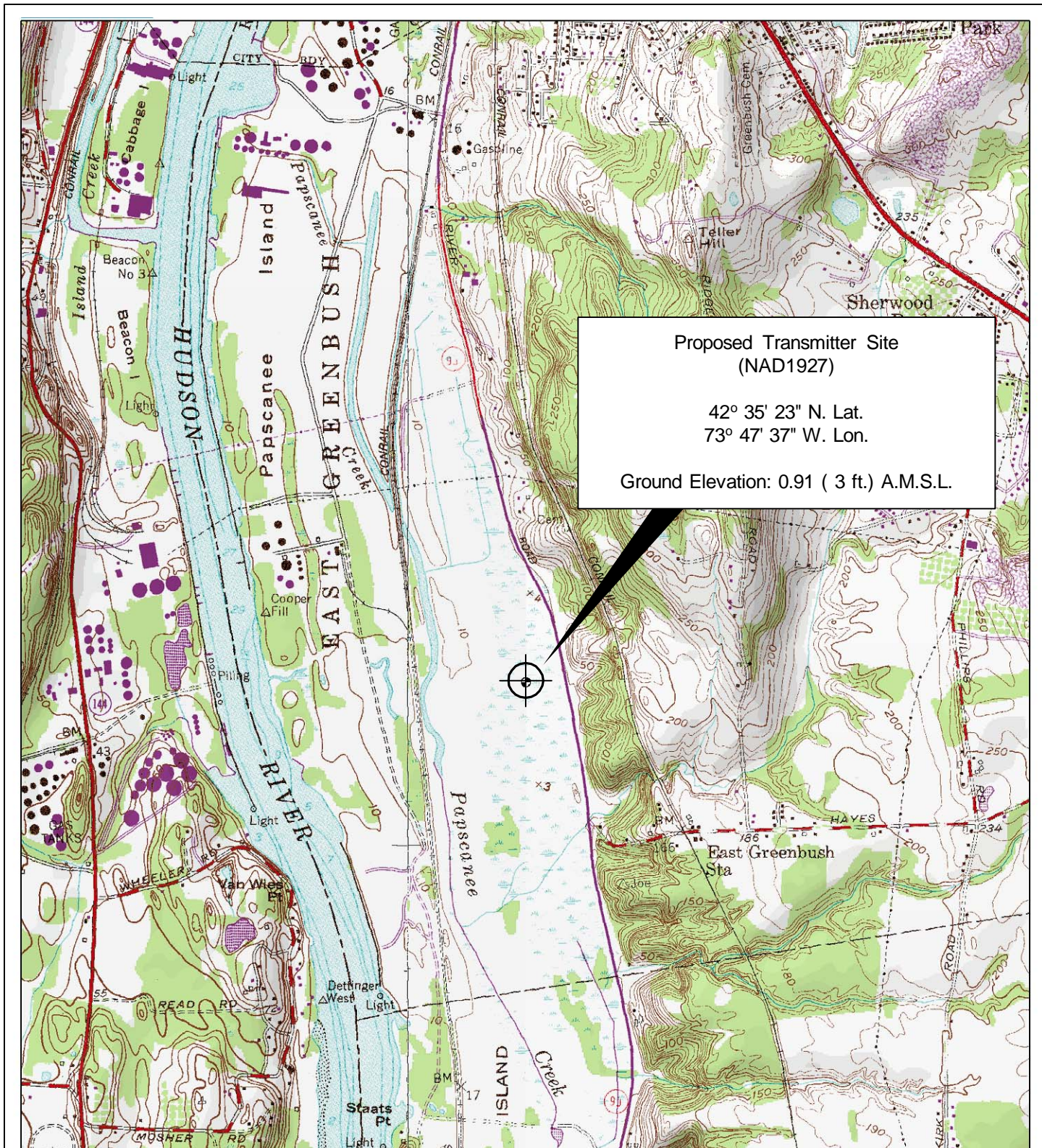
WGDJ (AM) 1300 KHZ
RENSSELAER, NEW YORK

**FIGURE
1**

GAITHERSBURG, MARYLAND U.S.A

SIZE A	FSCM NO N/A	DWG NO 20080120WTMMF1	REV NONE
SCALE N/A	JANUARY 2008	SHEET 1 OF 1	

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EXISTING TRANSMITTER SITE TOPOGRAPHIC MAP OF SITE

WGDJ (AM) 1300 KHZ
RENSSELAER, NEW YORK

**FIGURE
2**

GAITHERSBURG, MARYLAND U.S.A

SIZE
A

FSCM NO
N/A

DWG NO
20080120WTMMF2

REV
NONE

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SCALE
N/A

JANUARY 2008

SHEET

1 OF 1

WGDJ (FORMERLY WTMM)

**VERTICAL SKETCH OF ANTENNAS HAS BEEN PREVIOUSLY
SUBMITTED TO THE COMMISSION (SEE BP-19791105AI)**

**NO CHANGES TO THE EXISTING ANTENNA/TOWERS
ARE PROPOSED.**

**TOWERS ARE LESS THAN 61 METERS IN OVERALL HEIGHT ABOVE
GROUND AND REQUIRE NO NOTICE TO THE FAA OR FCC TOWER
REGISTRATION - SEE FIGURE 1**

NOT DRAWN TO SCALE

Ground Elevation: 0.9 m (3 ft)



VERTICAL SKETCH OF ANTENNA

**WGDJ (AM) 1300 KHZ
RENSSELAER, NEW YORK**

**FIGURE
3**

GAITHERSBURG, MARYLAND U.S.A

SIZE
A

FSCM NO
N/A

DWG NO
20080120WTMMF3

REV
NONE

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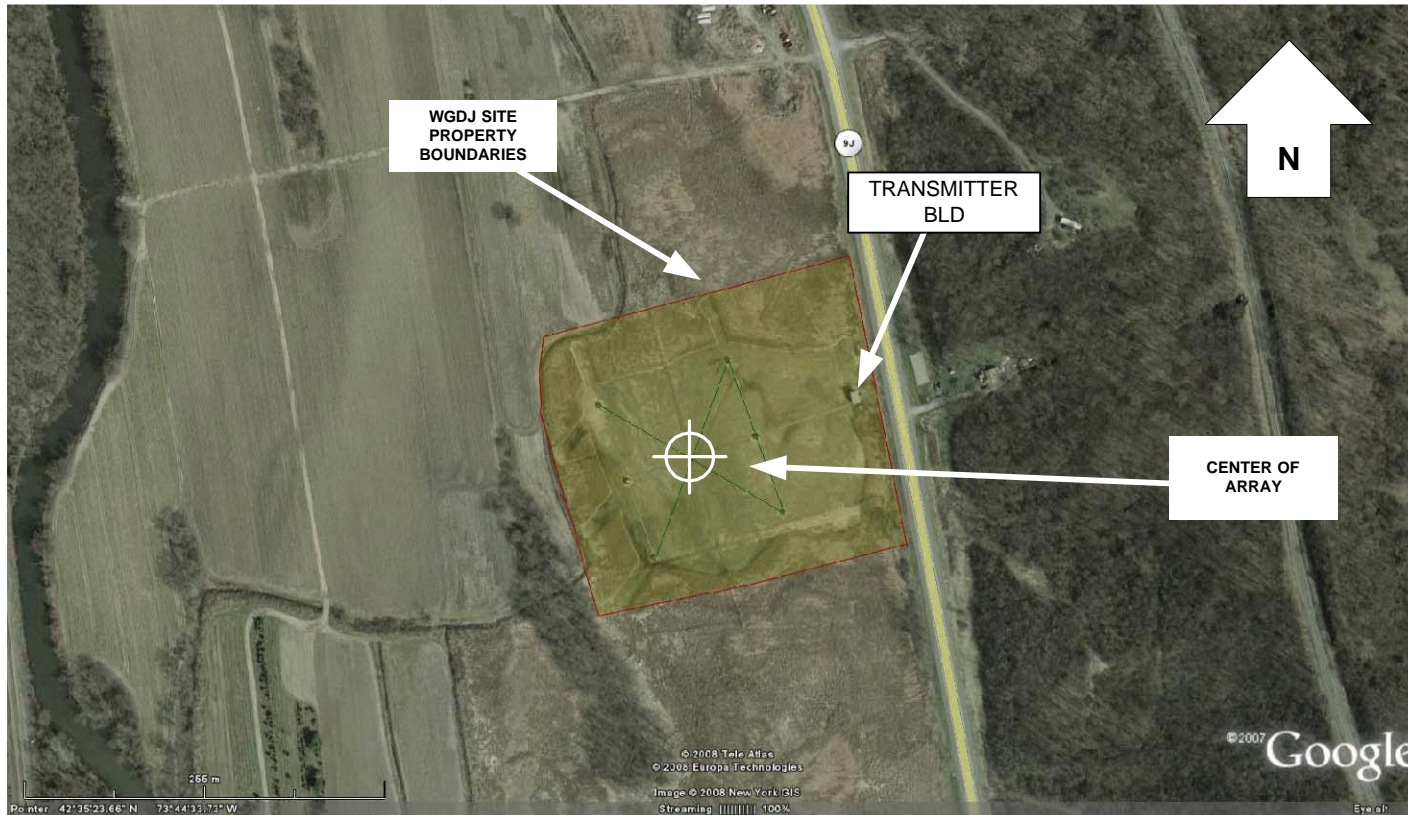
SCALE
N/A

JANUARY 2008

SHEET
1 OF 1

Note: A plat of the transmitter site has been previously provided, this is an existing transmitter site with no physical changes to the property from that previously reported to the Commission.

The general outline of the property, tower locations, roads and buildings are visible in the photograph below.



1" = 136 m

GENERAL SITE PHOTOGRAPH WITH SHADED PROPERTY BOUNDARIES
SHOWN - EXISTING TRANSMITTER SITE WGDJ (formerly WTMM)



GENERAL SITE PHOTOGRAPH EXISTING TRANSMITTER SITE

WGDJ (AM) 1300 KHZ
RENSSELAER, NEW YORK

**FIGURE
4**

GAITHERSBURG, MARYLAND U.S.A

SIZE
A

FSCM NO
N/A

DWG NO
20080120WTMMF4

REV
NONE

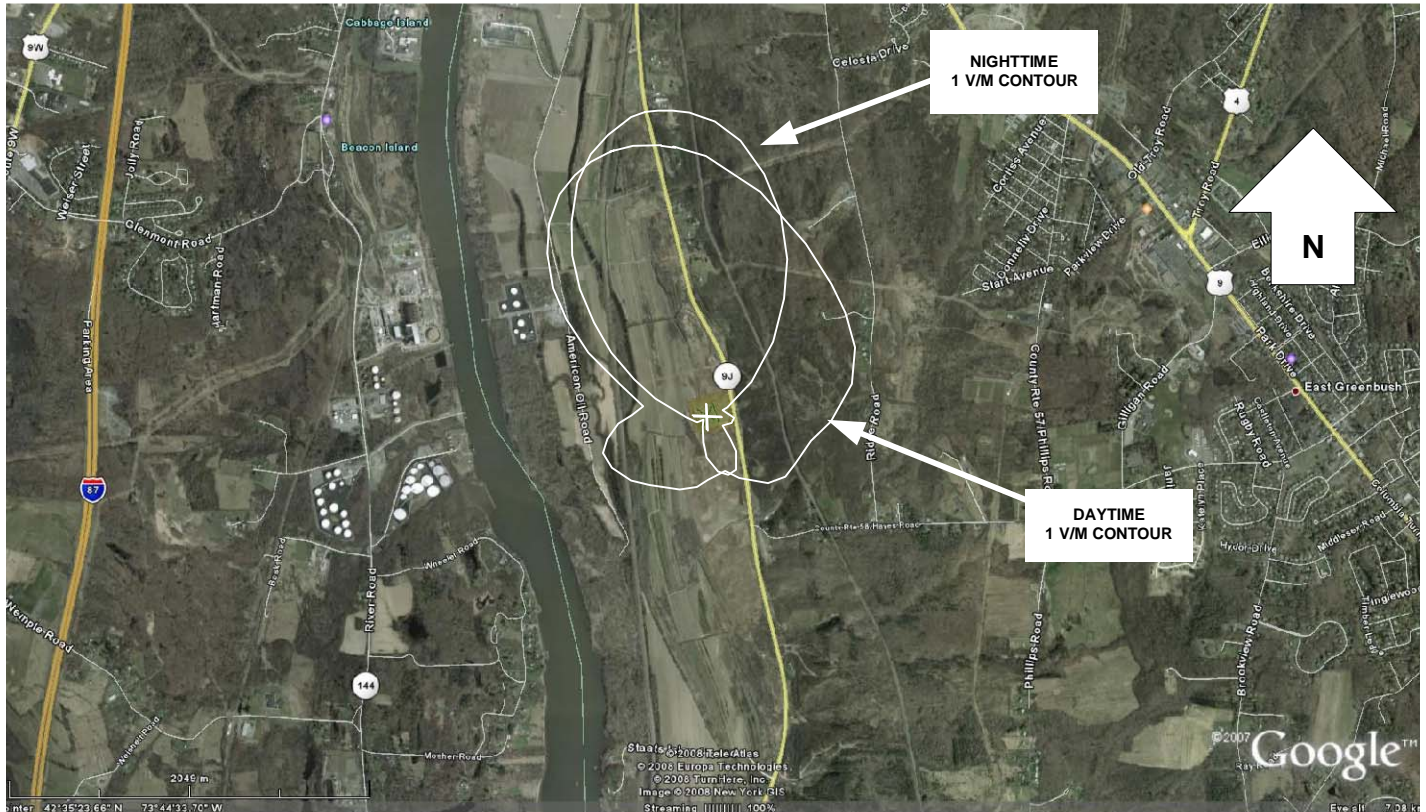
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SCALE 1" = 136 m

JANUARY 2008

SHEET

1 OF 2



WGDJ PROPOSED BLANKETING CONTOURS (1 V/M DAY AND NIGHT)

2000 US. CENSUS OF POPULATION:

1" = 1080 m

**DAYTIME POPULATION WITHIN CONTOUR 41 PERSONS
NIGHTTIME POPULATION WITHIN CONTOUR 17 PERSONS**



1V/M DAY/NIGHTTIME BLANKETING CONTOUR

**WGDJ (AM) 1300 KHZ
RENSSELAER, NEW YORK**

**FIGURE
4**

GAITHERSBURG, MARYLAND U.S.A

SIZE
A

FSCM NO
N/A

DWG NO
20080120WTMMF4

REV
NONE

(c) 2008, ALL RIGHTS RESERVED

SCALE 1" = 1080 m

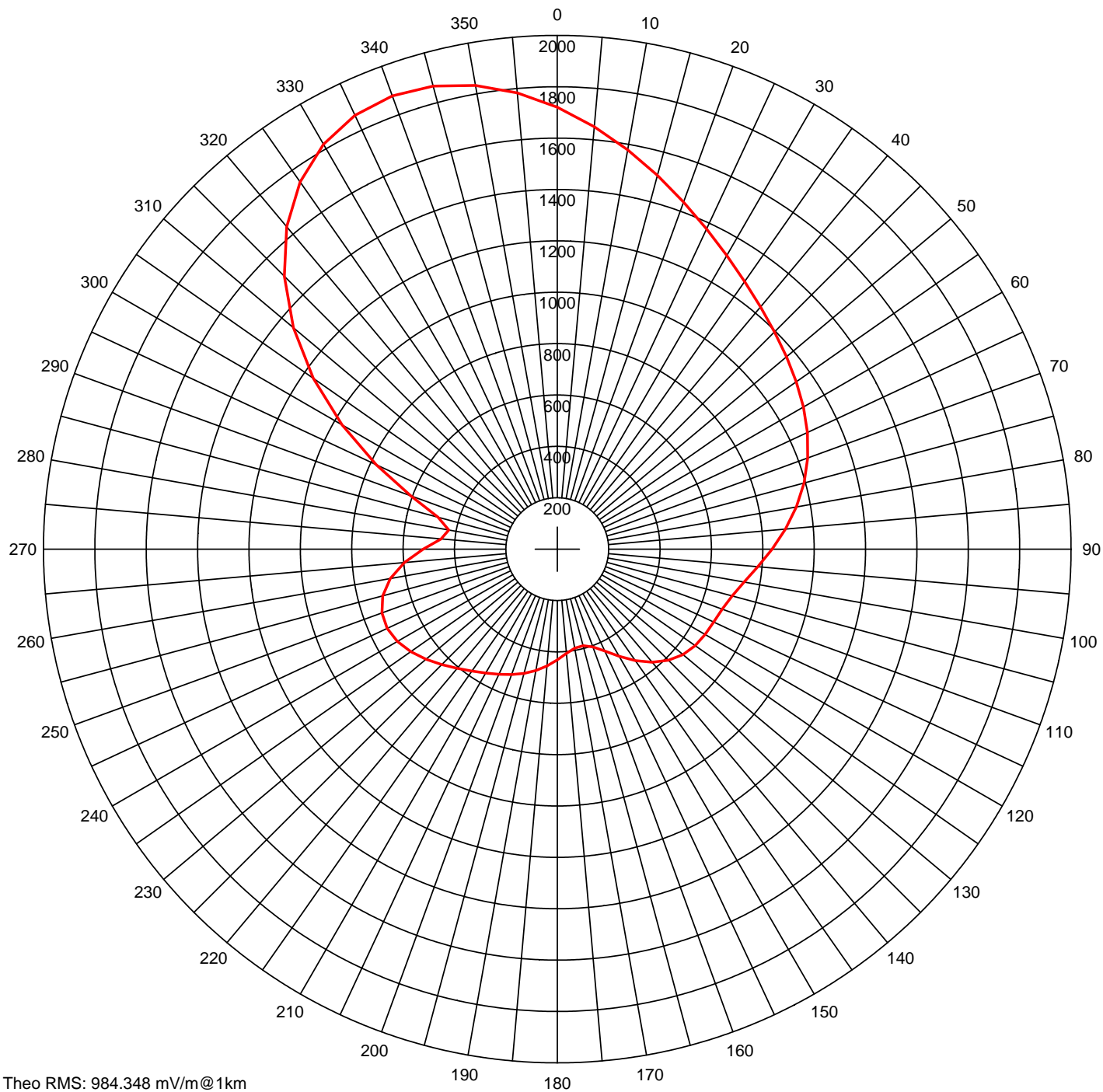
JANUARY 2008

SHEET

2 OF 2

Daytime Directional Pattern

FIGURE 5



Theo RMS: 984.348 mV/m@1km
 Std RMS: 1034.099 mV/m@1km
 Meas RMS: 0.0 mV/m@1km
 Q: 31.623 mV/m@1km

Horizontal Plane Standard Pattern

— Pattern (mV/m @ 1km)
 — Meas Pat (mV/m@1km)
 — Pattern X10
 — Meas Pat X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.400	-125.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.500	-87.5	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.300	155.0	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Call: WGDJ APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 10.0 kW
 Theo RMS: 984.35 mV/m@1km
 @ 10.0 kW

AM Radiation Report - Daytime

Call: WGDJ APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 10.0 kW
 Theo RMS: 984.35 mV/m @ 1km @ 10.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.400	-125.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.500	-87.5	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.300	155.0	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1720.41	5.0	1650.78	10.0	1578.13
15.0	1506.18	20.0	1437.88	25.0	1375.36
30.0	1319.87	35.0	1271.81	40.0	1230.80
45.0	1195.72	50.0	1164.83	55.0	1135.94
60.0	1106.62	65.0	1074.47	70.0	1037.49
75.0	994.45	80.0	945.32	85.0	891.54
90.0	836.17	95.0	783.58	100.0	738.57
105.0	704.89	110.0	683.53	115.0	671.88
120.0	664.56	125.0	655.27	130.0	638.76
135.0	612.04	140.0	574.88	145.0	529.78
150.0	481.74	155.0	437.65	160.0	404.98
165.0	389.31	170.0	391.56	175.0	407.63
180.0	431.14	185.0	456.47	190.0	480.18
195.0	501.04	200.0	519.59	205.0	537.50
210.0	556.85	215.0	579.42	220.0	606.00
225.0	635.96	230.0	667.16	235.0	696.19
240.0	718.77	245.0	730.29	250.0	726.35
255.0	703.44	260.0	659.80	265.0	596.91
270.0	522.19	275.0	454.36	280.0	428.75
285.0	480.45	290.0	606.47	295.0	777.45
300.0	967.65	305.0	1159.58	310.0	1340.93
315.0	1502.74	320.0	1638.71	325.0	1744.94
330.0	1819.71	335.0	1863.31	340.0	1877.71
345.0	1866.18	350.0	1832.94	355.0	1782.72

MULLANEY ENGINEERING, INC
 GAITHERSBURG, MARYLAND USA

**WGDJ APP
SOLID LINE CONTOURS**
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 10 kW
RMS: 984.348 mV/m @1km

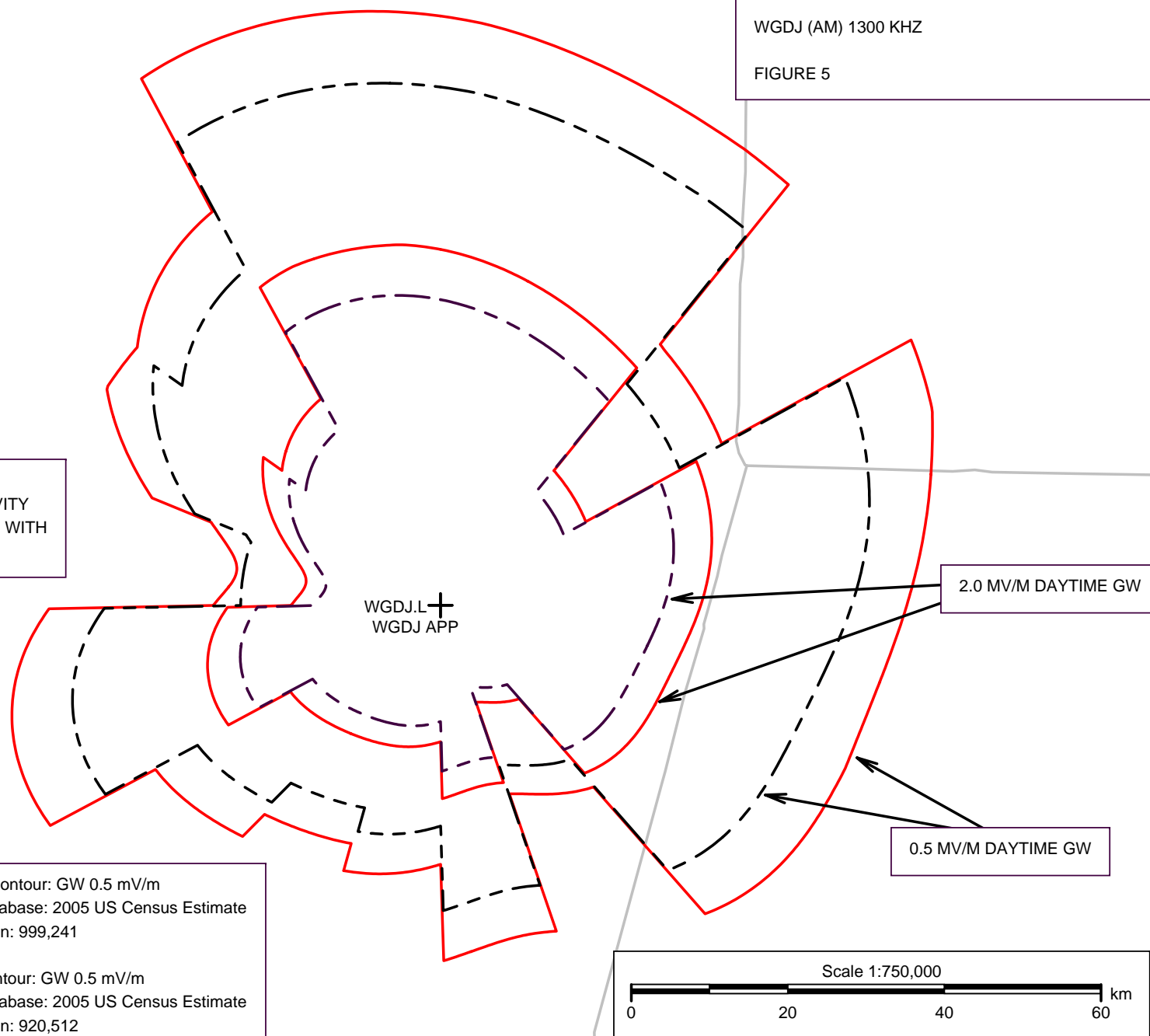
**WGDJ LICENSED
DASHED LINE CONTOURS**
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 5 kW
RMS: 696.85 mV/m @1km

CONTOURS ARE BASED UPON
FCC M3 MAP OF SOIL CONDUCTIVITY
OR MEASURED DATA SUBMITTED WITH
THIS APPLICATION

PRESENT AND PROPOSED SERVICE CONTOURS

WGDJ (AM) 1300 KHZ

FIGURE 5



PROPOSED Contour: GW 0.5 mV/m
Population Database: 2005 US Census Estimate
Total Population: 999,241

PRESENT Contour: GW 0.5 mV/m
Population Database: 2005 US Census Estimate
Total Population: 920,512



WGDJ APP
SOLID LINE CONTOURS
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 10 kW
RMS: 984.348 mV/m @1km

WGDJ LICENSED
DASHED LINE CONTOURS
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 5 kW
RMS: 696.85 mV/m @1km

CONTOURS ARE BASED UPON
FCC M3 MAP OF SOIL CONDUCTIVITY
OR MEASURED DATA SUBMITTED WITH
THIS APPLICATION

PRESENT AND PROPOSED SERVICE CONTOURS
CITY OF LICENSE COVERAGE CONTOUR 5 MV/M GW
WGDJ (AM) 1300 KHZ

FIGURE 5

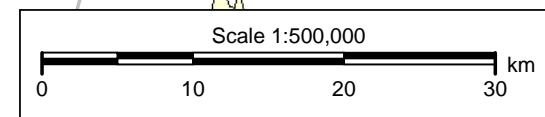
5.0 MV/M DAYTIME GW

100% COVERAGE OF CITY OF LICENSE
RENSSELAER, NEW YORK

WGDJ.L
WGDJ APP

PROPOSED Contour: GW 5.0 mV/m
Population Database: 2005 US Census Estimate
Total Population: 453,053

PRESENT Contour: GW 5.0 mV/m
Population Database: 2005 US Census Estimate
Total Population: 389,378



WGDJ APP

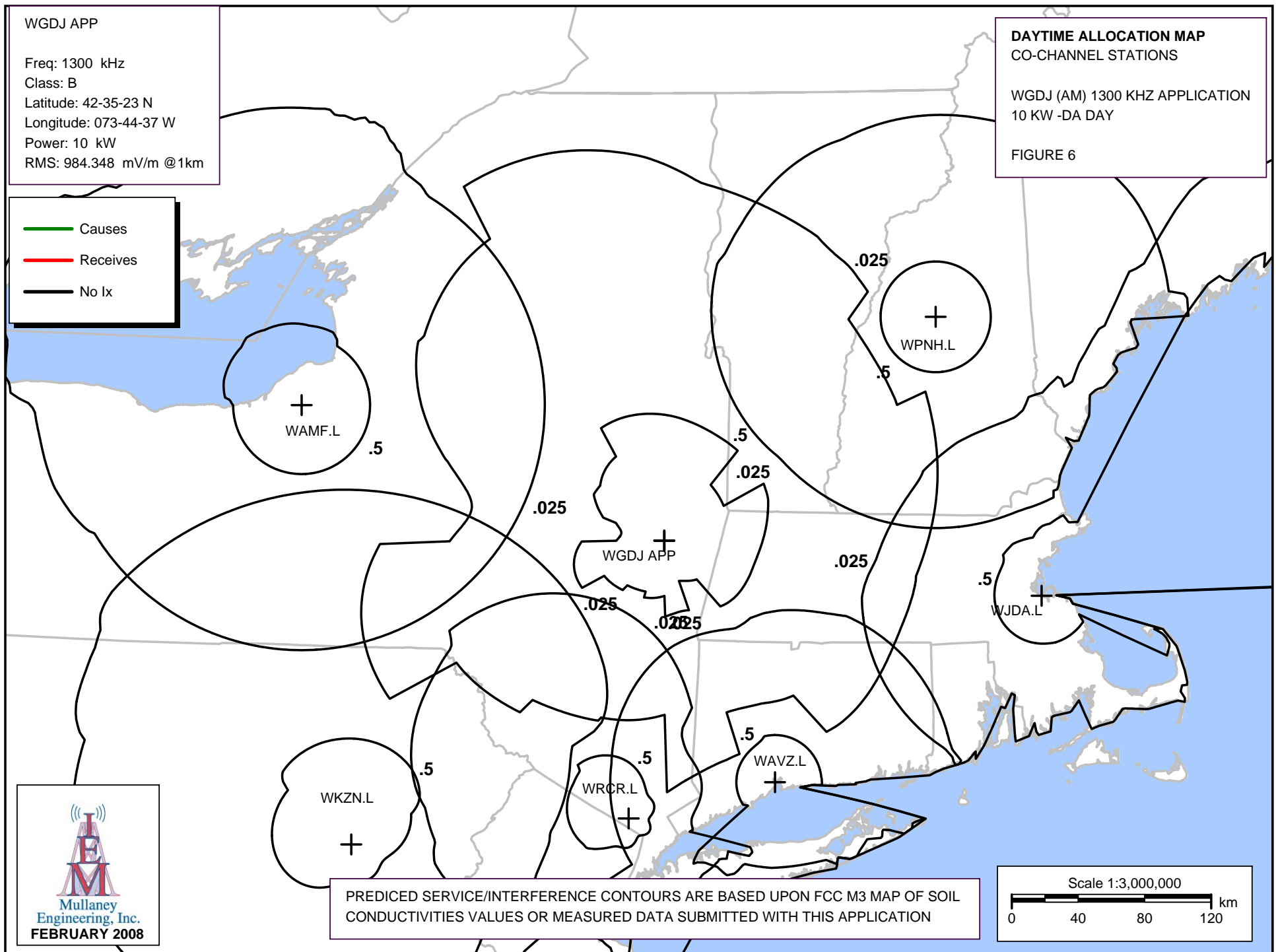
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 10 kW
RMS: 984.348 mV/m @1km

— Causes
— Receives
— No Ix

DAYTIME ALLOCATION MAP
CO-CHANNEL STATIONS

WGDJ (AM) 1300 KHZ APPLICATION
10 KW -DA DAY

FIGURE 6



WGDJ APP

Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 10 kW
RMS: 984.348 mV/m @1km

— Causes
— Receives
— No Ix

DAYTIME ALLOCATION MAP
1ST ADJ-CHANNEL STATIONS
1290 & 1310 KHZ

WGDJ (AM) 1300 KHZ APPLICATION
10 KW -DA DAY

FIGURE 6

+

WTLB.L

.5

.25

.25

.5

+

WGDJ APP

+

WKBK.L

.25

.5



Mullaney
Engineering, Inc.
FEBRUARY 2008

PREDICED SERVICE/INTERFERENCE CONTOURS ARE BASED UPON FCC M3 MAP OF SOIL
CONDUCTIVITIES VALUES OR MEASURED DATA SUBMITTED WITH THIS APPLICATION

Scale 1:1,500,000

0 30 60 90 km

WGDJ APP

Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 10 kW
RMS: 984.348 mV/m @1km

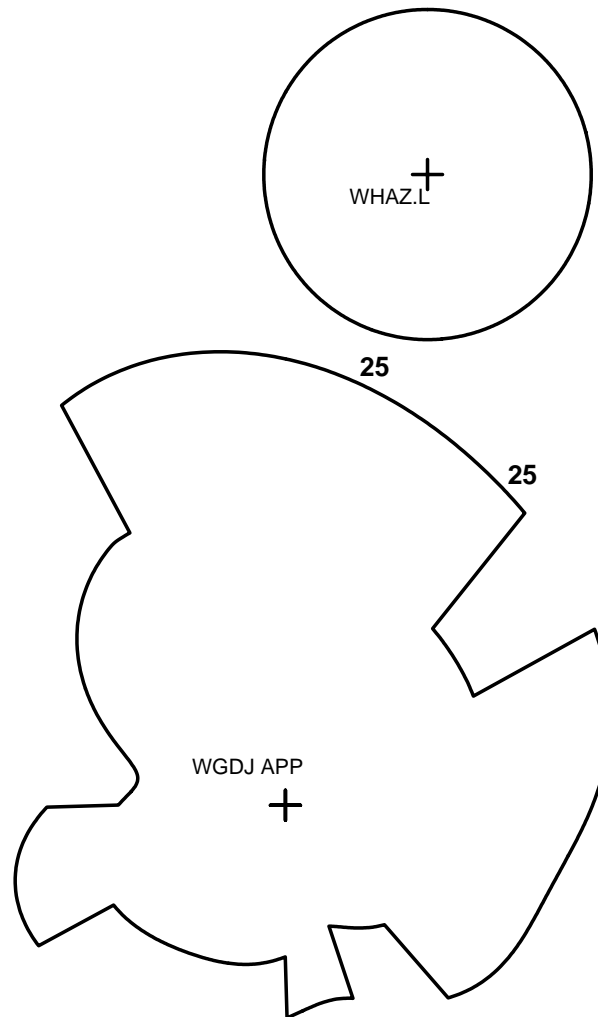
— Causes
— Receives
— No Ix

DAYTIME ALLOCATION MAP

THIRD ADJACENT CHANNEL STATION 1330 KHZ

WGDJ (AM) 1300 KHZ APPLICATION
10 KW -DA DAY

FIGURE 6



PREDICED SERVICE/INTERFERENCE CONTOURS ARE BASED UPON FCC M3 MAP OF SOIL CONDUCTIVITIES VALUES OR MEASURED DATA SUBMITTED WITH THIS APPLICATION

Scale 1:250,000
0 5 10 15 km

FIGURE 6

Groundwave Field Strength vs. Distance

Inverse Distance Field: 100.0 mV/m@1km

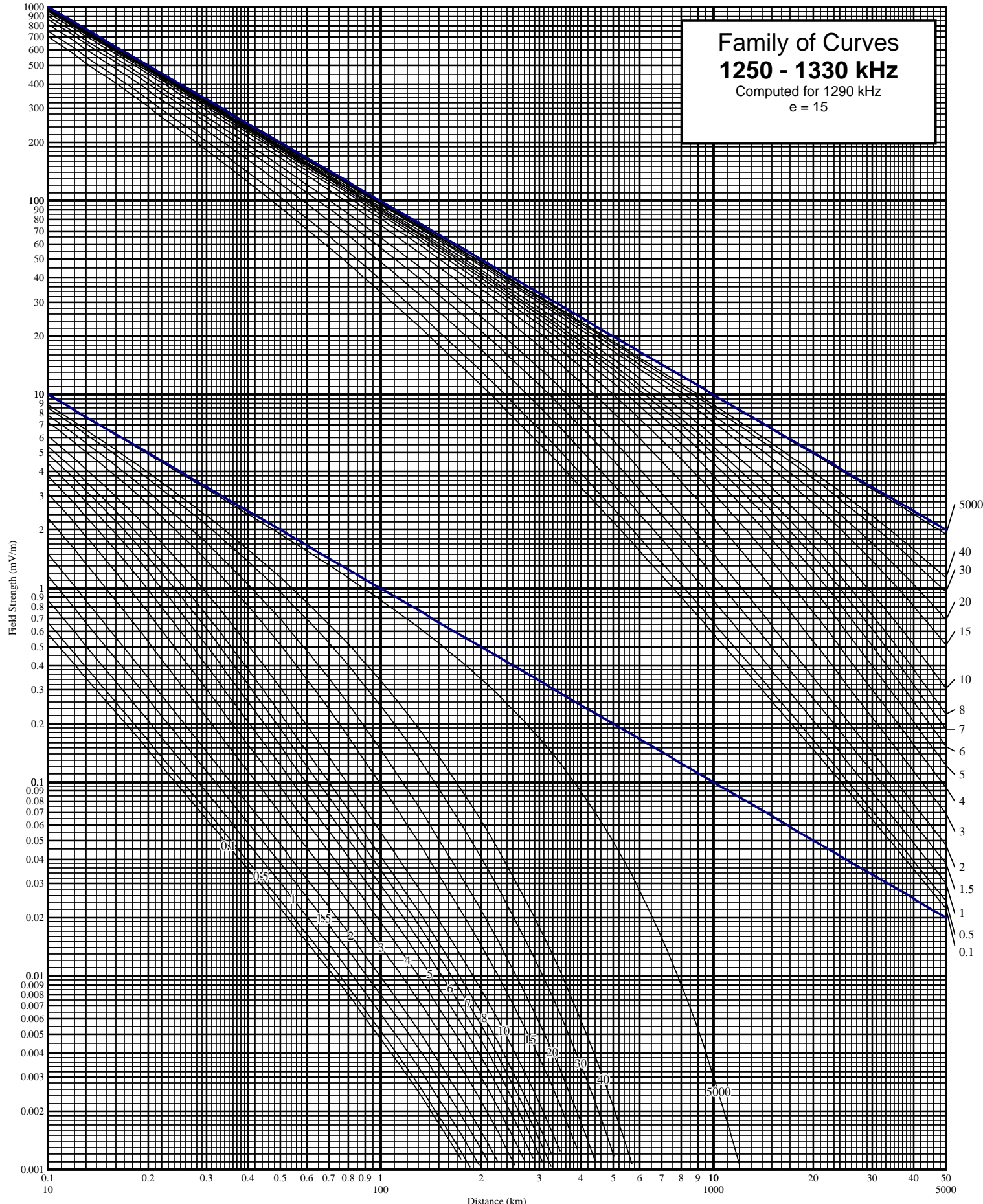


FIGURE 6

Groundwave Field Strength vs. Distance

Inverse Distance Field: 100.0 mV/m@1km

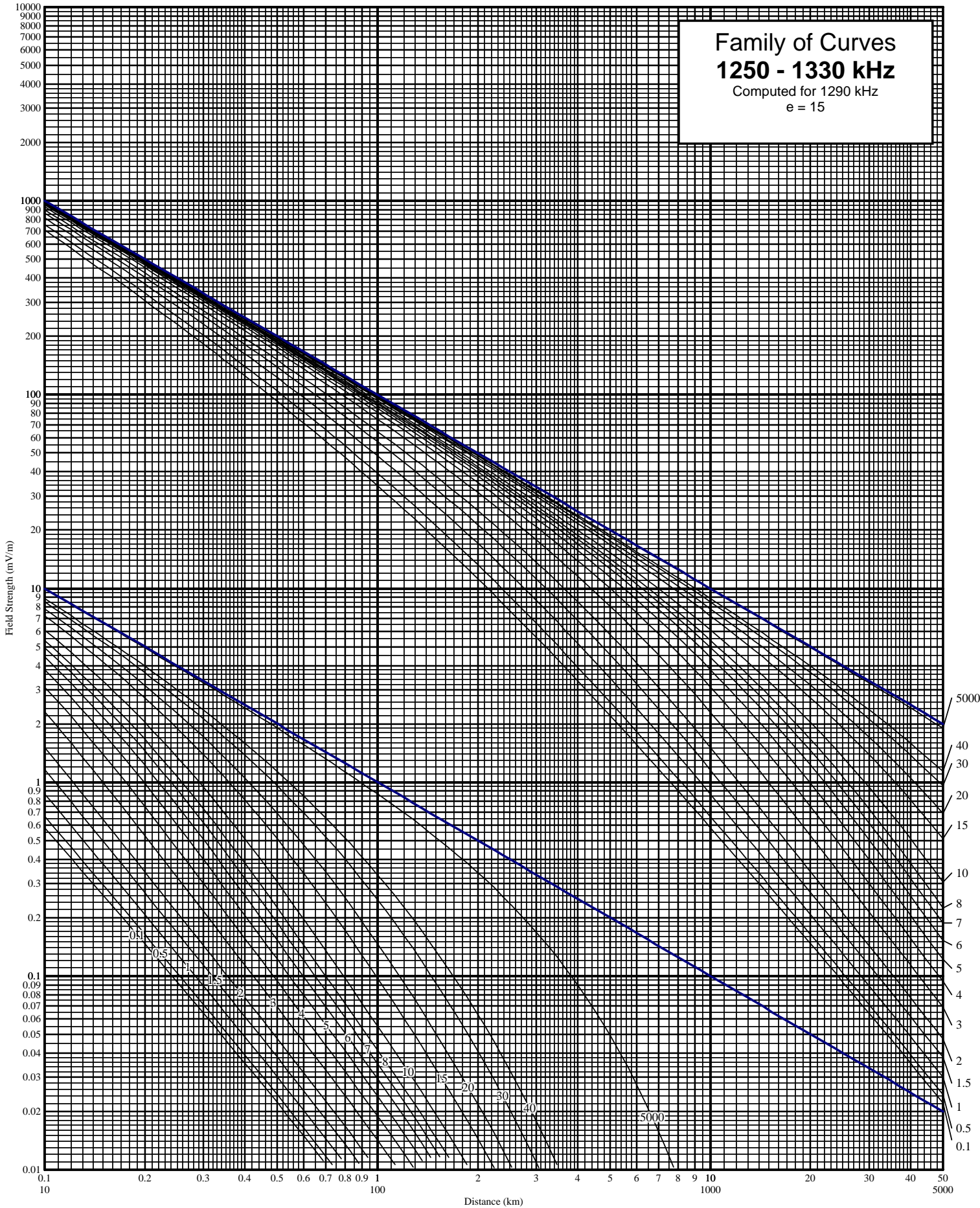


FIGURE 6 WGDJ APP MEASURED DATA
WGDJ APP Measured Field Strength

DAY DIRECTIONAL

(Shown With Matching Conductivity Curves)

Azi: 50.0 deg.

WGDJ APP

Freq: 1300 kHz
Azi: 50.0 deg
Power: 10.0 kW
Rad: 820.0 mV/m@1km
e = 15

OCTOBER 2007

Inverse Field 820.0 mV/m@ 1 kilometer

1.5 mS/m

1 mS/m

Azi: 50.0 deg.

Net Conductivities:

1: 1.5 mS/m to 9.62 km
2: 1.0 mS/m to 43.32 km

Mullaney Engineering, Inc.
Gaithersburg, Maryland

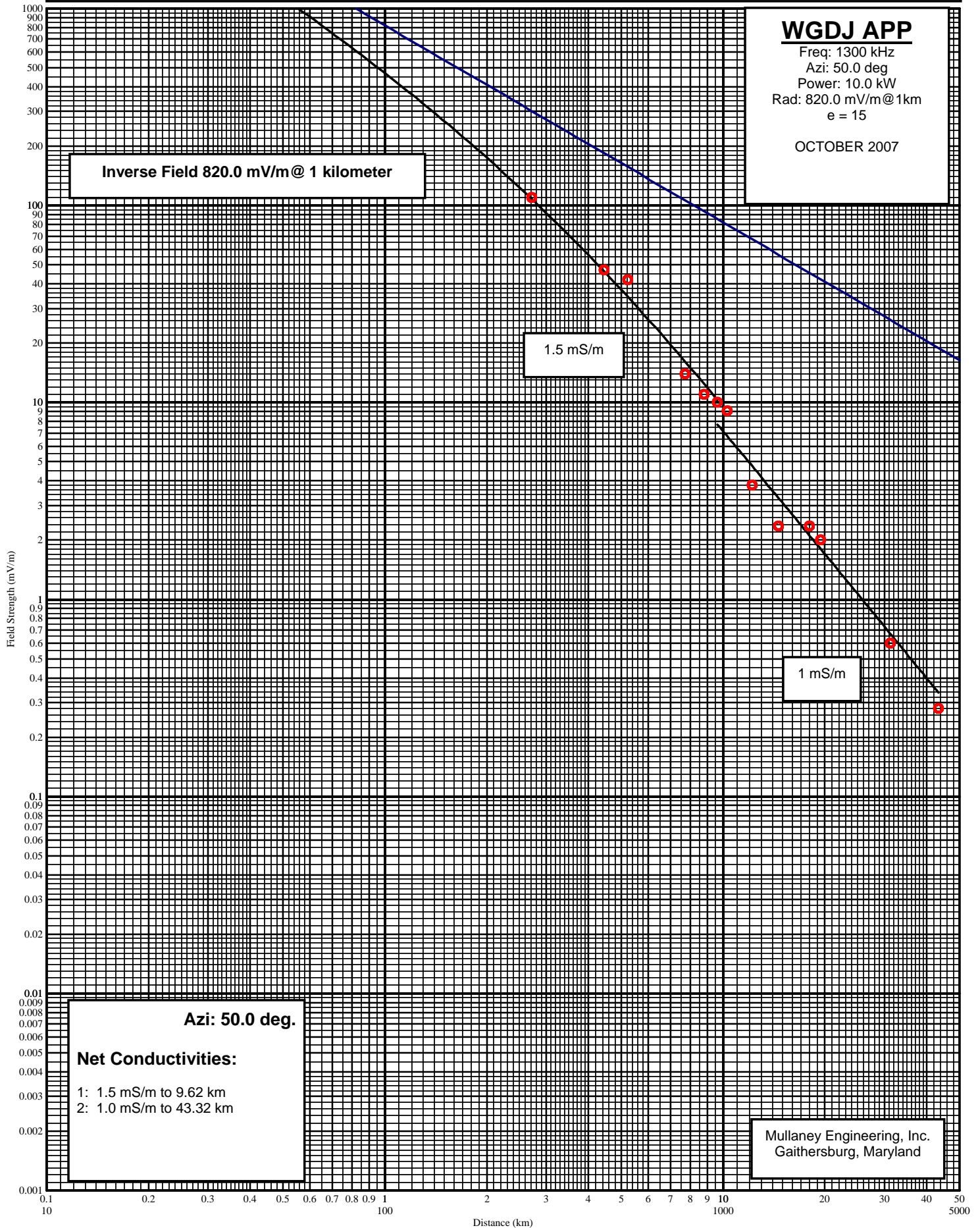


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 50.0 degrees.

Poi nt Number	Di stance		Fi el d	Notes	Date
	(km)	(mi)	(mV/m)		
-----	-----	-----	-----	-----	-----
1	2.72	1.69	110.000		10/4/2007
2	4.46	2.77	47.000		10/4/2007
3	5.23	3.25	42.000		10/4/2007
4	7.71	4.79	14.000		10/4/2007
5	8.79	5.46	11.000		10/4/2007
6	9.62	5.98	10.000		10/4/2007
7	10.27	6.38	9.100		10/4/2007
8	12.21	7.59	3.800		10/4/2007
9	14.58	9.06	2.350		10/4/2007
10	18.04	11.21	2.350		10/4/2007
11	19.41	12.06	2.000		10/4/2007
12	31.17	19.37	0.600		10/4/2007
13	43.32	26.92	0.280		10/4/2007

 ALL MEASUREMENTS WERE MADE BY MULLANEY ENGINEERING, INC.
 TIMOTHY Z. SAWYER, USING A POTOMAC INSTRUMENTS FIM -41
 FIELD INTENSITY METER SERIAL NUMBER 1397 LAST CALIBRATED
 JUNE 2004, PRIOR TO ITS USE THE METER WAS CHECK AGAINST A
 KNOW SOURCE AND FOUND TO BE WITHIN THE MANUFACTURES
 SPECIFICATIONS FOR RATED ACCURACY. ALL MEASUREMENTS WERE
 MADE DURING DAYTIME HOURS COMMENCING 2 HOURS AFTER LOCAL
 SUNRISE AND ENDING 2 HOURS BEFORE LOCAL SUNSET.

FIGURE 6 WGDJ APP MEASURED DATA
WGDJ APP Measured Field Strength

DAY DIRECTIONAL

(Shown With Matching Conductivity Curves)

Azi: 150.0 deg.

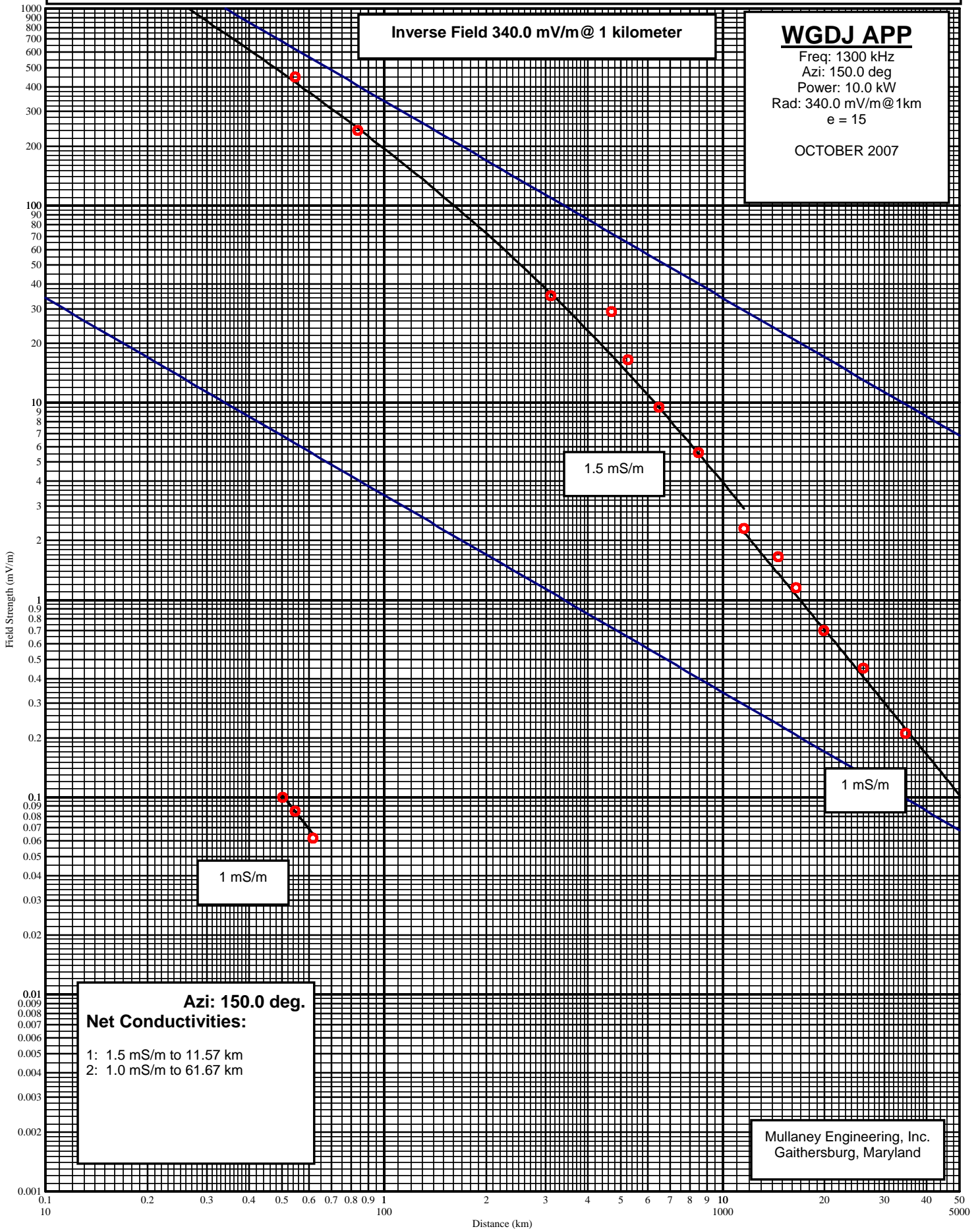


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 150.0 degrees.

Poi nt Number	Di stance		Fi el d	Notes	Date
	(km)	(mi)	(mV/m)		
-----	-----	-----	-----	-----	-----
1	0.55	0.34	450.000		10/4/2007
2	0.84	0.52	240.000		10/4/2007
3	3.11	1.93	35.000		10/4/2007
4	4.70	2.92	29.000		10/4/2007
5	5.25	3.26	16.500		10/4/2007
6	6.49	4.03	9.500		10/4/2007
7	8.47	5.26	5.600		10/4/2007
8	11.57	7.19	2.300		10/4/2007
9	14.61	9.08	1.650		10/4/2007
10	16.48	10.24	1.150		10/4/2007
11	19.89	12.36	0.700		10/4/2007
12	26.04	16.18	0.450		10/4/2007
13	34.62	21.51	0.210		10/4/2007
14	50.24	31.22	0.100		10/4/2007
15	54.67	33.97	0.085		10/4/2007
16	61.67	38.32	0.062		10/4/2007

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 MADE DURING DAYTIME HOURS COMMENCING 2 HOURS AFTER LOCAL
 SUNRISE AND ENDING 2 HOURS BEFORE LOCAL SUNSET.

FIGURE 6 WGDJ APP MEASURED DATA WGDJ APP Measured Field Strength

DAY DIRECTIONAL

(Shown With Matching Conductivity Curves)

Azi: 190.0 deg.

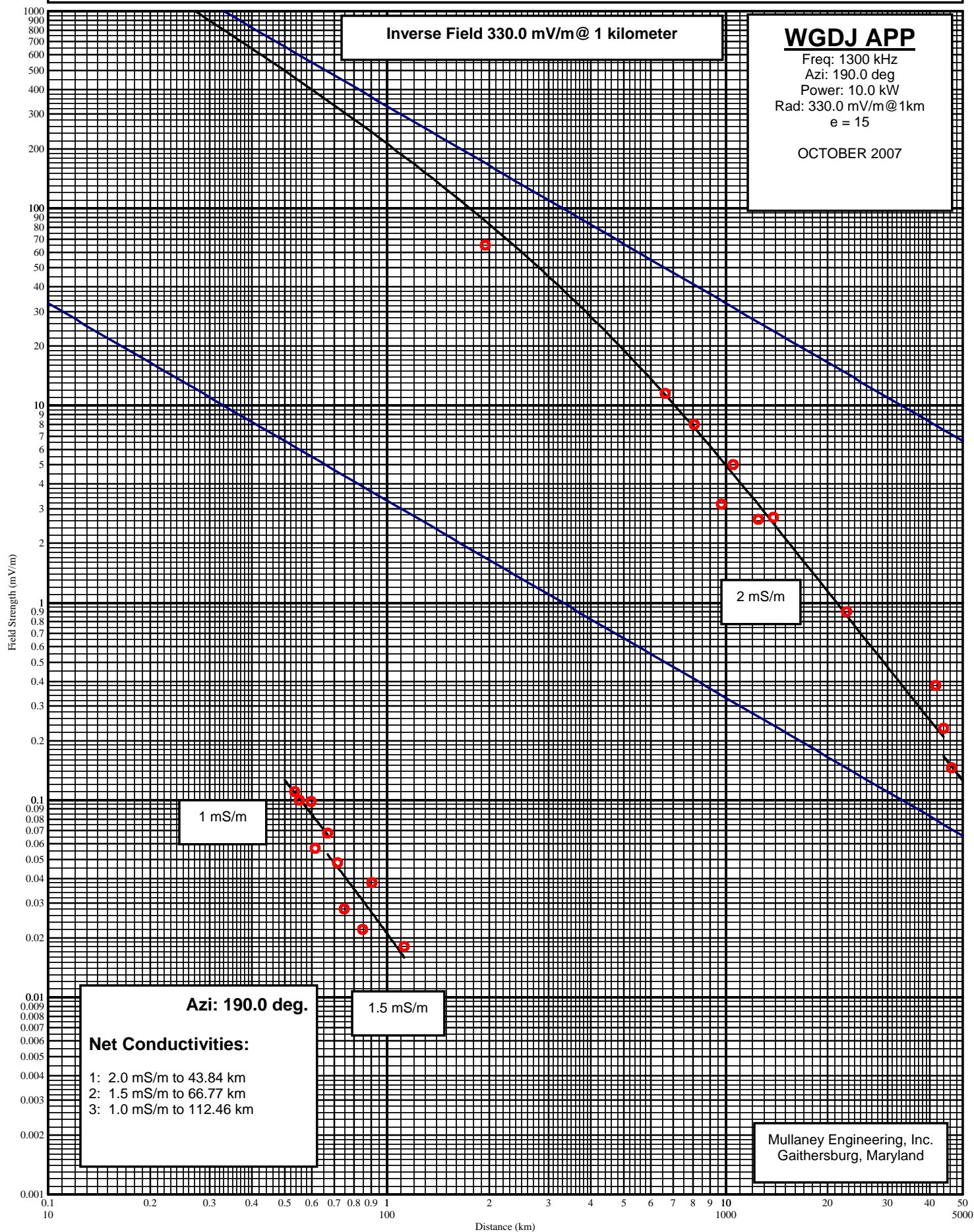


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 190.0 degrees.

Poi nt Number	Di stance		Fi el d	Notes	Date
	(km)	(mi)	(mV/m)		
-----	-----	-----	-----	-----	-----
1	1.95	1.21	65.000		10/3/2007
2	6.61	4.11	11.500		10/3/2007
3	8.06	5.01	8.000		10/3/2007
4	9.69	6.02	3.150		10/3/2007
5	10.53	6.54	5.000		10/3/2007
6	12.46	7.74	2.650		10/3/2007
7	13.79	8.57	2.700		10/3/2007
8	22.69	14.10	0.900		10/3/2007
9	41.62	25.86	0.380		10/3/2007
10	43.84	27.24	0.230		10/3/2007
11	46.37	28.81	0.145		10/3/2007
12	53.40	33.18	0.110		10/3/2007
13	55.10	34.24	0.100		10/3/2007
14	59.66	37.07	0.098		10/3/2007
15	61.27	38.07	0.057		10/3/2007
16	66.77	41.49	0.068		10/3/2007
17	71.34	44.33	0.048		10/3/2007
18	74.72	46.43	0.028		10/3/2007
19	84.81	52.70	0.022		10/3/2007
20	90.28	56.10	0.038		10/3/2007
21	112.46	69.88	0.018		10/3/2007

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 JUNE 2004, PRIOR TO ITS USE THE METER WAS CHECK AGAINST A
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 SPECIFICATIONS FOR RATED ACCURACY. ALL MEASUREMENTS WERE
 MADE DURING DAYTIME HOURS COMMENCING 2 HOURS AFTER LOCAL
 SUNRISE AND ENDING 2 HOURS BEFORE LOCAL SUNSET.

FIGURE 6 WGDJ APP MEASURED DATA WGDJ APP Measured Field Strength

DIRECTIONAL DAY

(Shown With Matching Conductivity Curves)

Azi: 210.0 deg.

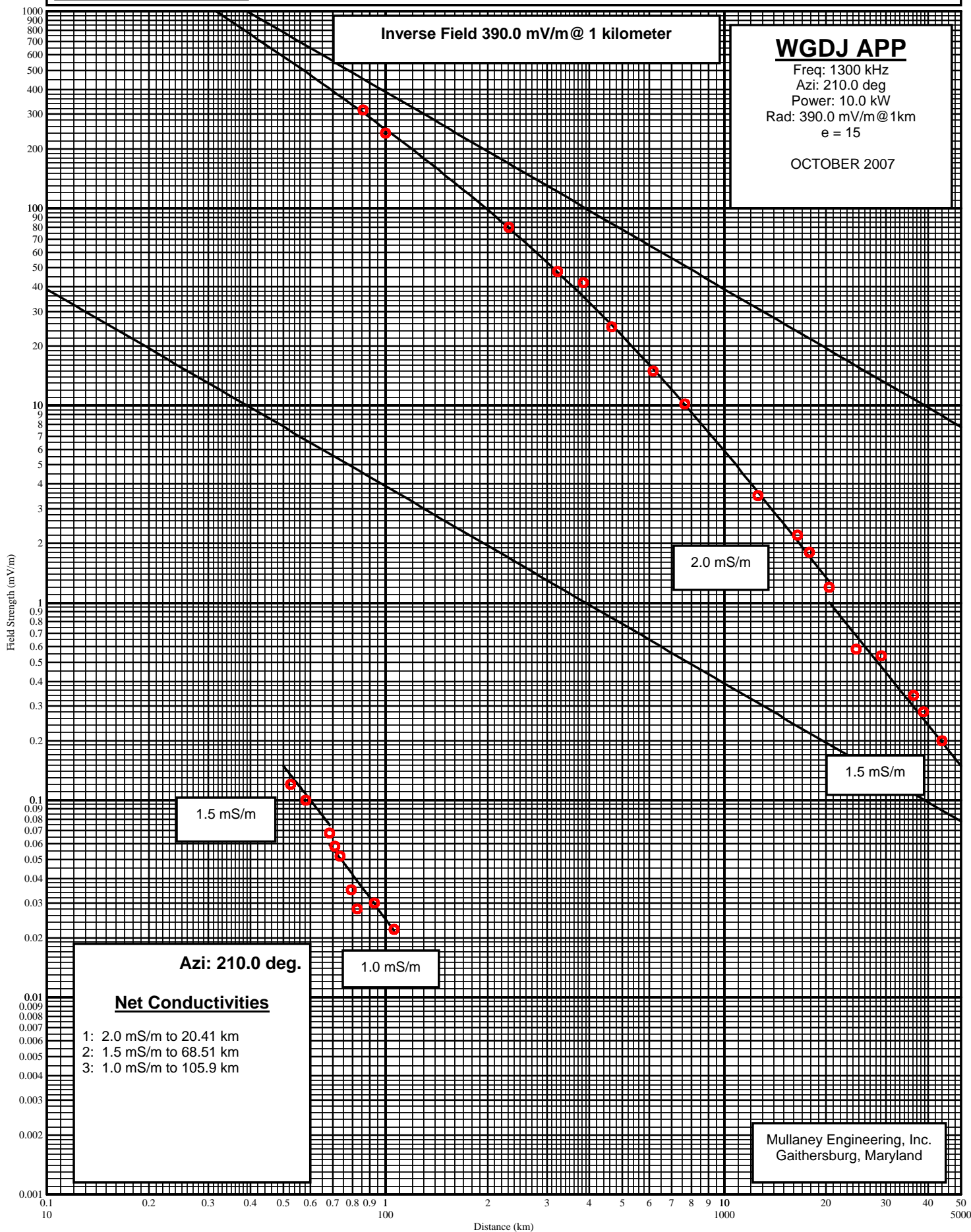


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 210.0 degrees.

Poi nt Number	Di stance		Fi el d	Notes	Date
	(km)	(mi)	(mV/m)		
-----	-----	-----	-----	-----	-----
1	0.86	0.53	315.000		10/2/2007
2	1.00	0.62	240.000		10/2/2007
3	2.31	1.44	80.000		10/2/2007
4	3.22	2.00	48.000		10/2/2007
5	3.83	2.38	42.000		10/2/2007
6	4.66	2.90	25.000		10/2/2007
7	6.18	3.84	15.000		10/2/2007
8	7.65	4.75	10.200		10/2/2007
9	12.60	7.83	3.500		10/2/2007
10	16.47	10.23	2.200		10/2/2007
11	17.86	11.10	1.800		10/2/2007
12	20.41	12.68	1.200		10/2/2007
13	24.56	15.26	0.580		10/2/2007
14	29.05	18.05	0.540		10/2/2007
15	36.16	22.47	0.340		10/2/2007
16	38.72	24.06	0.280		10/2/2007
17	43.82	27.23	0.200		10/2/2007
18	52.50	32.62	0.120		10/2/2007
19	58.13	36.12	0.100		10/2/2007
20	68.51	42.57	0.068		10/2/2007
21	70.90	44.06	0.058		10/2/2007
22	73.30	45.55	0.052		10/2/2007
23	79.10	49.15	0.035		10/2/2007
24	82.64	51.35	0.028		10/2/2007
25	92.90	57.73	0.030		10/2/2007
26	105.90	65.80	0.022		10/2/2007

 ALL MEASUREMENTS WERE MADE BY MULLANEY ENGINEERING, INC.
 TIMOTHY Z. SAWYER, USING A POTOMAC INSTRUMENTS FIM -41
 FIELD INTENSITY METER SERIAL NUMBER 1397 LAST CALIBRATED
 JUNE 2004, PRIOR TO ITS USE THE METER WAS CHECK AGAINST A
 KNOW SOURCE AND FOUND TO BE WITHIN THE MANUFACTURES
 SPECIFICATIONS FOR RATED ACCURACY. ALL MEASUREMENTS WERE
 MADE DURING DAYTIME HOURS COMMENCING 2 HOURS AFTER LOCAL
 SUNRISE AND ENDING 2 HOURS BEFORE LOCAL SUNSET.

FIGURE 6 WGDJ APP MEASURED DATA
WGDJ APP Measured Field Strength

DIRECTIONAL DAY

(Shown With Matching Conductivity Curves)

Azi: 230.0 deg.

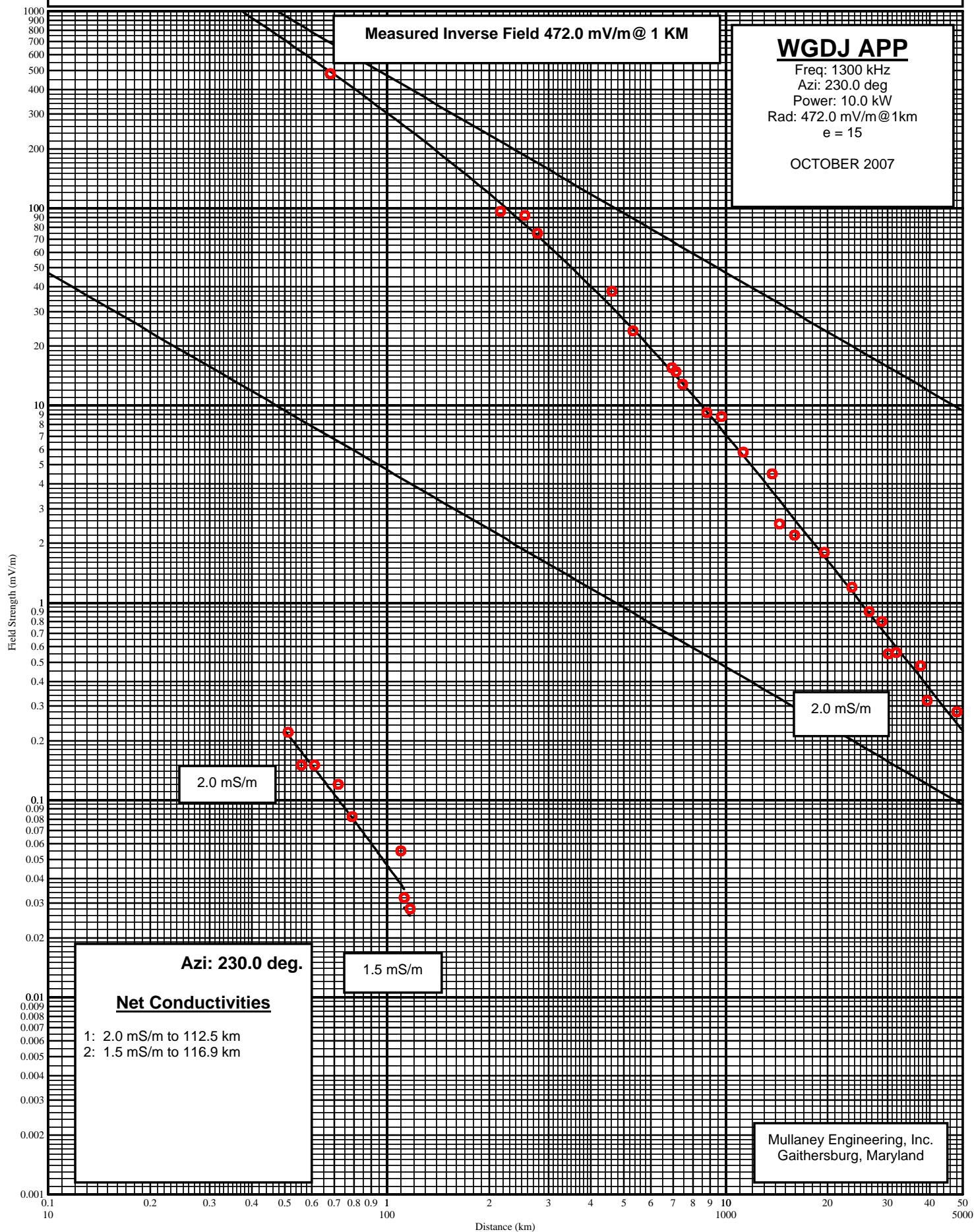


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 230.0 degrees.

Poi nt Number	Di stance (km)	(mi)	Fi el d (mV/m)	Notes	Date
-----	-----	-----	-----	-----	-----
1	0.68	0.42	480.000		10/2/2007
2	2.16	1.34	96.000		10/2/2007
3	2.55	1.58	92.000		10/2/2007
4	2.78	1.73	75.000		10/2/2007
5	4.61	2.86	38.000		10/2/2007
6	5.32	3.31	24.000		10/2/2007
7	6.92	4.30	15.500		10/2/2007
8	7.13	4.43	14.800		10/2/2007
9	7.45	4.63	12.800		10/2/2007
10	8.78	5.46	9.200		10/2/2007
11	9.71	6.03	8.800		10/2/2007
12	11.26	7.00	5.800		10/2/2007
13	13.72	8.53	4.500		10/2/2007
14	14.42	8.96	2.500		10/2/2007
15	15.93	9.90	2.200		10/2/2007
16	19.47	12.10	1.800		10/2/2007
17	23.52	14.61	1.200		10/2/2007
18	26.52	16.48	0.900		10/2/2007
19	28.80	17.90	0.800		10/2/2007
20	30.11	18.71	0.550		10/2/2007
21	31.75	19.73	0.560		10/2/2007
22	37.60	23.36	0.480		10/2/2007
23	39.32	24.43	0.320		10/2/2007
24	48.10	29.89	0.280		10/2/2007
25	51.20	31.81	0.220		10/2/2007
26	55.90	34.73	0.150		10/2/2007
27	61.20	38.03	0.150		10/2/2007
28	71.85	44.65	0.120		10/2/2007
29	79.00	49.09	0.082		10/2/2007
30	109.80	68.23	0.055		10/2/2007
31	112.50	69.90	0.032		10/2/2007
32	116.90	72.64	0.028		10/2/2007

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WGDJ MEASUREMENT TABULATIONS

FIGURE 6 WGDJ APP MEASURED DATA
WGDJ APP Measured Field Strength

Azi: 280.0 deg.

DIRECTIONAL DAY

(Shown With Matching Conductivity Curves)

Measured Inverse Field 302.0 mV/m@ 1 KM

WGDJ APP

Freq: 1300 kHz
 Azi: 280.0 deg
 Power: 10.0 kW
 Rad: 302.0 mV/m@1km
 e = 15

OCTOBER 2007

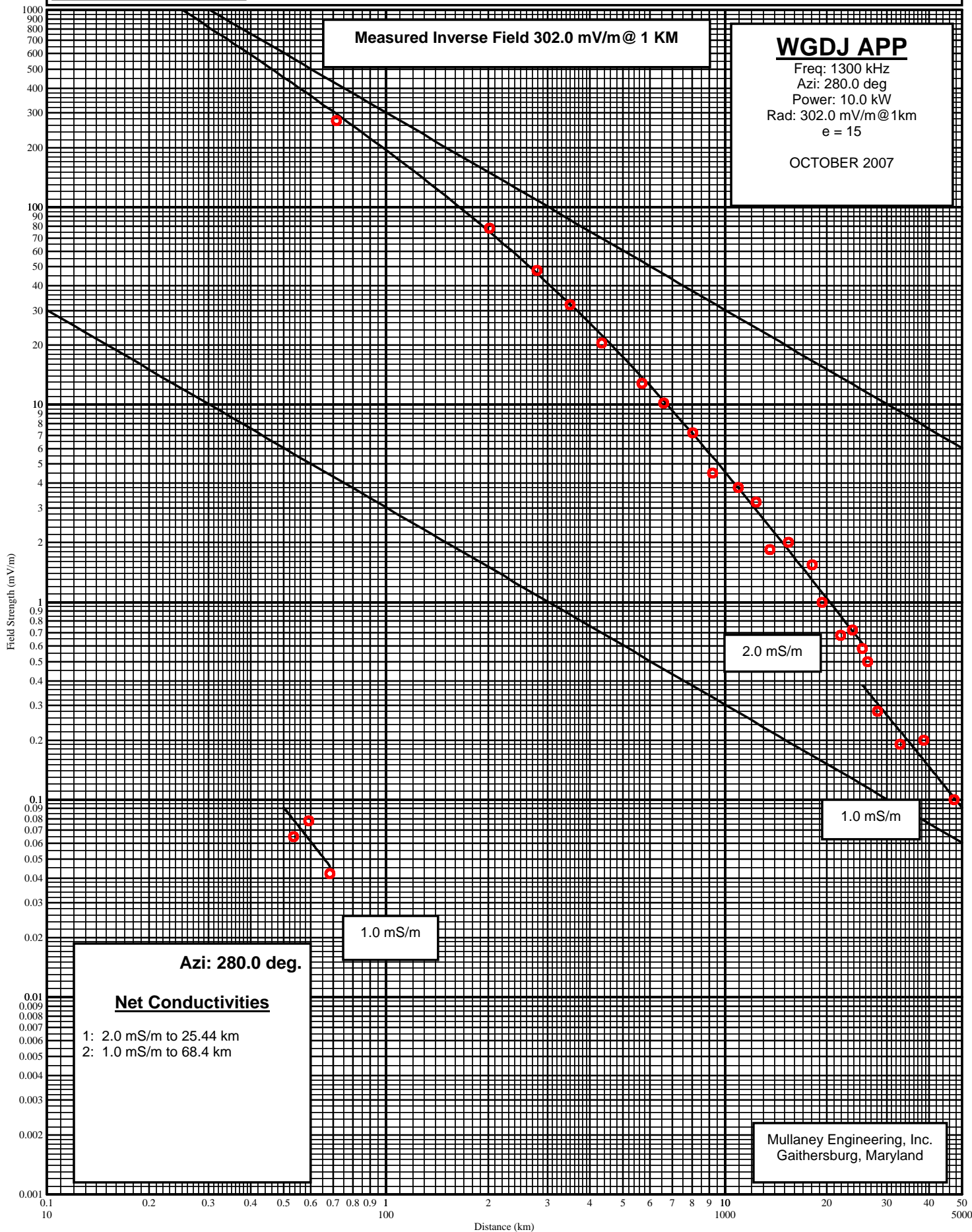


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 280.0 degrees.

Poi nt Number	Di stance		Fi el d	Notes	Date
	(km)	(mi)	(mV/m)		
-----	-----	-----	-----	-----	-----
1	0.72	0.44	275.000		10/4/2007
2	2.02	1.26	78.000		10/4/2007
3	2.79	1.73	48.000		10/4/2007
4	3.49	2.17	32.000		10/4/2007
5	4.33	2.69	20.500		10/4/2007
6	5.70	3.54	12.800		10/4/2007
7	6.59	4.09	10.200		10/4/2007
8	8.05	5.00	7.200		10/4/2007
9	9.18	5.70	4.500		10/4/2007
10	10.97	6.82	3.800		10/4/2007
11	12.37	7.69	3.200		10/4/2007
12	13.55	8.42	1.850		10/4/2007
13	15.41	9.58	2.000		10/4/2007
15	18.12	11.26	1.550		10/4/2007
16	19.31	12.00	1.000		10/4/2007
18	21.95	13.64	0.680		10/4/2007
19	23.77	14.77	0.720		10/4/2007
20	25.44	15.81	0.580		10/4/2007
21	26.32	16.35	0.500		10/4/2007
22	28.15	17.49	0.280		10/4/2007
23	32.86	20.42	0.190		10/4/2007
24	38.61	23.99	0.200		10/4/2007
25	47.40	29.45	0.100		10/4/2007
26	53.52	33.26	0.065		10/4/2007
27	59.33	36.87	0.078		10/4/2007
28	68.40	42.50	0.042		10/4/2007

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FIGURE 6 WGDJ APP MEASURED DATA
WGDJ APP Measured Field Strength

DIRECTIONAL DAY

(Shown With Matching Conductivity Curves)

Azi: 300.0 deg.

WGDJ APP

Freq: 1300 kHz
Azi: 300.0 deg
Power: 10.0 kW
Rad: 670.0 mV/m@1km
e = 15

OCTOBER 2007

Measured Inverse Field 670.0 mV/m@ 1 KM

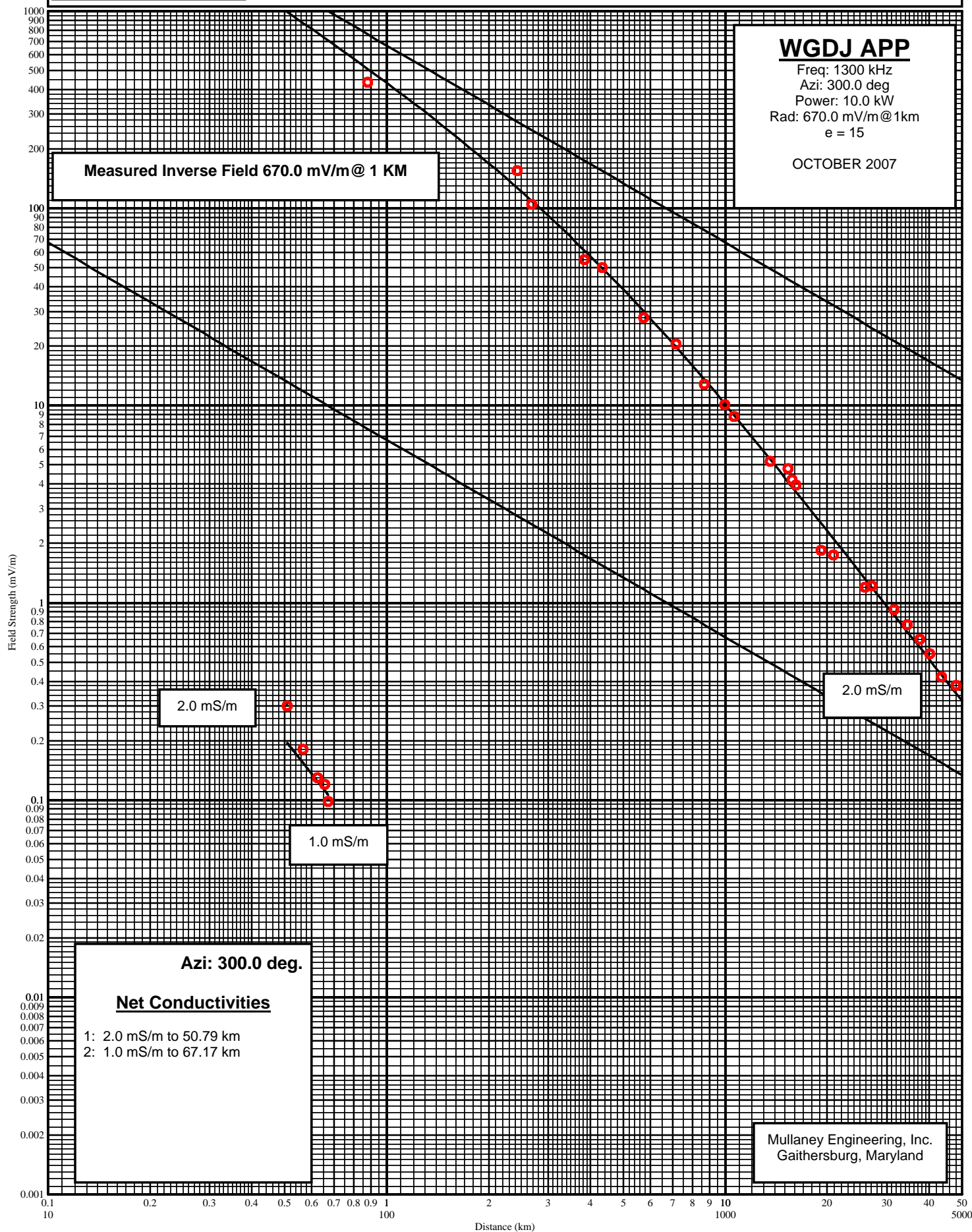


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 300.0 degrees.

Poi nt Number	Di stance (km)	(mi)	Fi el d (mV/m)	Notes	Date
-----	-----	-----	-----	-----	-----
1	0.88	0.55	435.000		10/5/2007
2	2.43	1.51	155.000		10/5/2007
3	2.68	1.67	105.000		10/5/2007
4	3.83	2.38	55.000		10/5/2007
5	4.33	2.69	50.000		10/5/2007
6	5.73	3.56	28.000		10/5/2007
7	7.14	4.44	20.500		10/5/2007
8	8.67	5.39	12.800		10/5/2007
9	9.95	6.18	10.100		10/5/2007
10	10.63	6.61	8.800		10/5/2007
11	13.55	8.42	5.200		10/5/2007
12	15.29	9.50	4.800		10/5/2007
13	15.71	9.76	4.200		10/5/2007
14	16.17	10.05	3.950		10/5/2007
15	19.20	11.93	1.850		10/5/2007
16	20.85	12.96	1.750		10/5/2007
17	25.82	16.04	1.200		10/5/2007
18	27.04	16.80	1.220		10/5/2007
19	31.56	19.61	0.920		10/5/2007
20	34.40	21.38	0.770		10/5/2007
21	37.55	23.33	0.650		10/5/2007
22	40.12	24.93	0.550		10/5/2007
23	43.58	27.08	0.420		10/5/2007
24	48.07	29.87	0.380		10/5/2007
25	50.79	31.56	0.300		10/5/2007
26	56.67	35.21	0.180		10/5/2007
27	62.59	38.89	0.130		10/5/2007
28	65.62	40.77	0.120		10/5/2007
29	67.17	41.74	0.098		10/5/2007

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WGDJ MEASUREMENT TABULATIONS

FIGURE 6 WGDJ APP MEASURED DATA WGDJ APP Measured Field Strength

DIRECTIONAL DAY

(Shown With Matching Conductivity Curves)

Azi: 320.0 deg.

Measured Inverse Field 1130.0 mV/m @ 1 KM

WGDJ APP

Freq: 1300 kHz
Azi: 320.0 deg
Power: 10.0 kW
Rad: 1130.0 mV/m@1km
e = 15

OCTOBER 2007

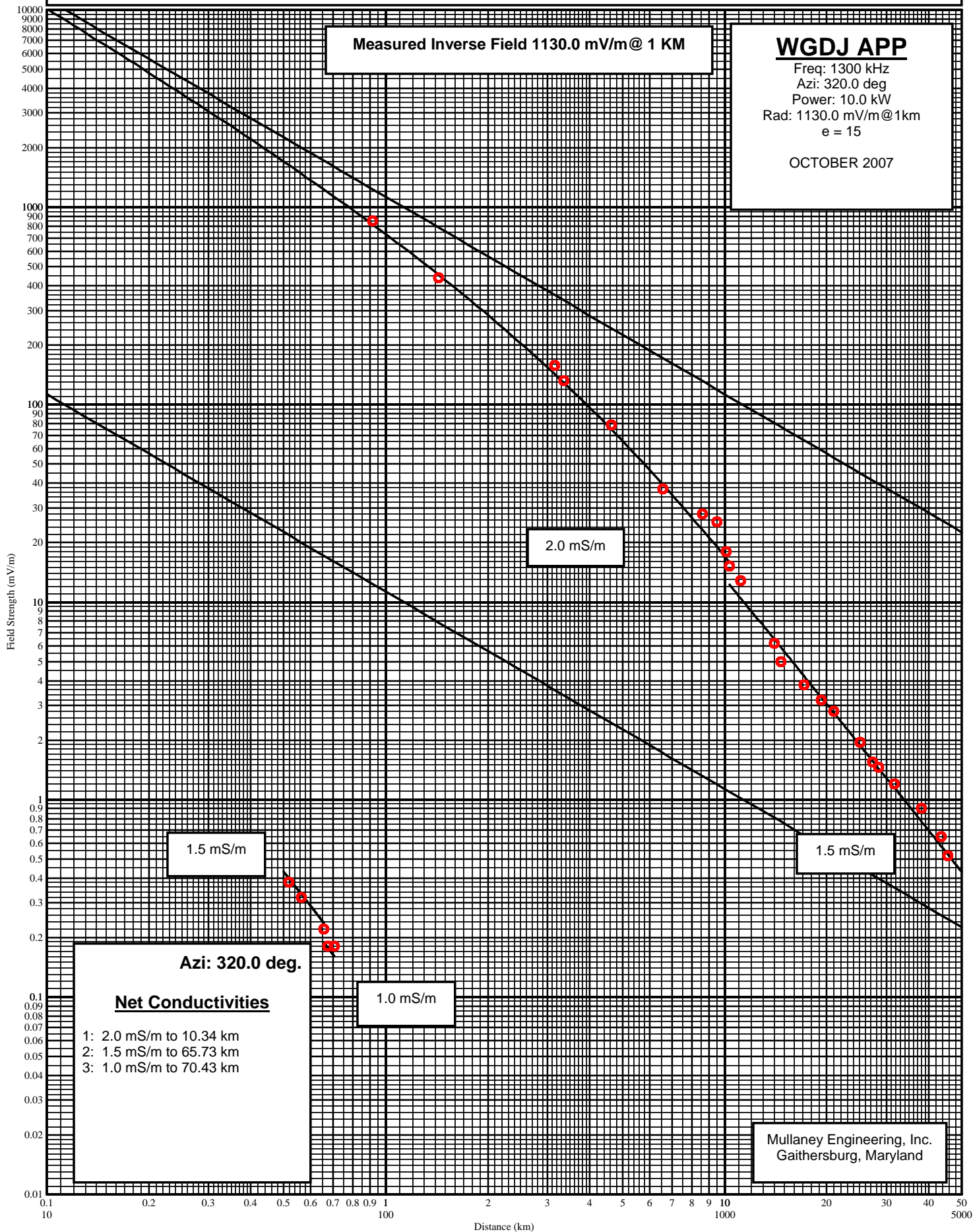


FIGURE 6

WGDJ 1300 KHZ - DAYTIME DIRECTIONAL PATTERN

Measurements for 320.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date
-----	-----	-----	-----	-----	-----
1	0.91	0.57	850.000		10/5/2007
2	1.43	0.89	440.000		10/5/2007
3	3.15	1.96	158.000		10/5/2007
4	3.35	2.08	132.000		10/5/2007
5	4.64	2.88	79.000		10/5/2007
6	6.57	4.08	37.500		10/5/2007
7	8.61	5.35	28.000		10/5/2007
8	9.47	5.88	25.500		10/5/2007
9	10.10	6.28	18.000		10/5/2007
10	10.34	6.42	15.200		10/5/2007
11	11.15	6.93	12.800		10/5/2007
12	13.98	8.69	6.200		10/5/2007
13	14.64	9.10	5.000		10/5/2007
14	17.12	10.64	3.800		10/5/2007
15	19.21	11.94	3.200		10/5/2007
16	20.93	13.01	2.800		10/5/2007
17	25.08	15.58	1.950		10/5/2007
18	27.32	16.98	1.550		10/5/2007
19	28.45	17.68	1.450		10/5/2007
20	31.60	19.64	1.200		10/5/2007
21	37.97	23.59	0.900		10/5/2007
22	43.51	27.04	0.650		10/5/2007
23	45.61	28.34	0.520		10/5/2007
24	51.81	32.19	0.380		10/5/2007
25	56.38	35.03	0.320		10/5/2007
26	65.73	40.84	0.220		10/5/2007
27	67.39	41.87	0.180		10/5/2007
28	70.43	43.76	0.180		10/5/2007

 ALL MEASUREMENTS WERE MADE BY MULLANEY ENGINEERING, INC.
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WGDJ MEASUREMENT TABULATIONS

Critical Hours Radiation Report

Call: WGDJ APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 10.0 kW
 Theo RMS: 984.35 mV/m @ 1km @ 10.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.400	-125.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.500	-87.5	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.300	155.0	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Interpolation factors for 1300 kHz:

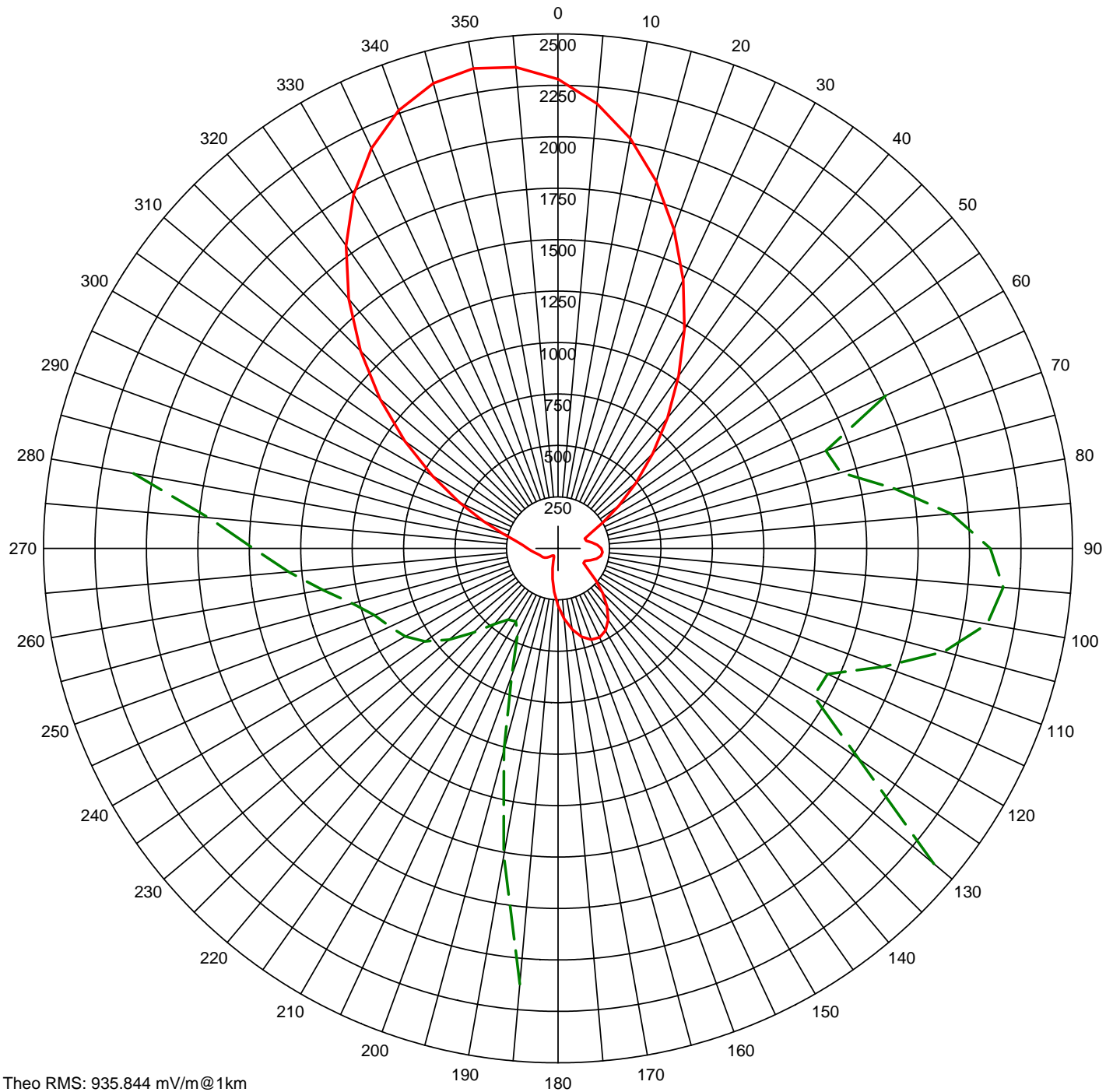
K(500) = 0.000
 K(1000) = 0.500
 K(1600) = 0.500

No Class A AM stations found on frequency 1300 kHz

 MULLANEY ENGINEERING, INC.
 GAITHERSBURG, MARYLAND USA

Directional Pattern Nighttime

FIGURE 8



Theo RMS: 935.844 mV/m@1km
 Std RMS: 983.206 mV/m@1km
 Meas RMS: 0.0 mV/m@1km
 Q: 31.882 mV/m@1km

Horizontal Plane Standard Pattern

— Pattern (mV/m @ 1km)
 — Meas Pat (mV/m@1km)
 - - Pattern X10
 - - Meas Pat X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m@1km
 @ 8.0 kW

AM Radiation Report - Nighttime

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	2279.93	5.0	2169.74	10.0	2022.63
15.0	1846.16	20.0	1648.97	25.0	1440.14
30.0	1228.54	35.0	1022.21	40.0	827.87
45.0	650.65	50.0	494.10	55.0	360.68
60.0	252.87	65.0	175.69	70.0	138.57
75.0	142.33	80.0	166.41	85.0	191.88
90.0	210.07	95.0	217.22	100.0	211.80
105.0	194.21	110.0	168.22	115.0	144.50
120.0	143.48	125.0	178.55	130.0	238.50
135.0	306.74	140.0	371.64	145.0	425.18
150.0	461.69	155.0	477.70	160.0	471.93
165.0	445.34	170.0	400.94	175.0	343.40
180.0	278.52	185.0	212.60	190.0	151.74
195.0	101.30	200.0	65.58	205.0	46.62
210.0	41.01	215.0	42.26	220.0	48.07
225.0	57.83	230.0	69.10	235.0	78.89
240.0	85.62	245.0	90.02	250.0	94.94
255.0	103.41	260.0	116.13	265.0	131.32
270.0	148.01	275.0	170.32	280.0	209.46
285.0	278.75	290.0	385.36	295.0	529.11
300.0	705.65	305.0	908.24	310.0	1128.46
315.0	1356.69	320.0	1582.60	325.0	1795.72
330.0	1986.11	335.0	2144.87	340.0	2264.64
345.0	2340.03	350.0	2367.83	355.0	2347.27

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Standard Pattern
 Calculated at 5.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	2259.44	5.0	2150.57	10.0	2005.23
15.0	1830.84	20.0	1635.92	25.0	1429.41
30.0	1220.06	35.0	1015.80	40.0	823.26
45.0	647.52	50.0	492.12	55.0	359.52
60.0	252.24	65.0	175.33	70.0	138.21
75.0	141.86	80.0	165.88	85.0	191.34
90.0	209.59	95.0	216.89	100.0	211.70
105.0	194.42	110.0	168.64	115.0	144.57
120.0	141.99	125.0	174.85	130.0	232.85
135.0	299.48	140.0	363.09	145.0	415.65
150.0	451.55	155.0	467.36	160.0	461.81
165.0	435.84	170.0	392.39	175.0	336.03
180.0	272.47	185.0	207.88	190.0	148.23
195.0	98.82	200.0	63.89	205.0	45.46
210.0	40.11	215.0	41.35	220.0	46.99
225.0	56.54	230.0	67.68	235.0	77.45
240.0	84.31	245.0	88.93	250.0	94.02
255.0	102.46	260.0	114.97	265.0	129.99
270.0	146.84	275.0	169.85	280.0	210.04
285.0	280.06	290.0	386.59	295.0	529.44
300.0	704.37	305.0	904.81	310.0	1122.52
315.0	1348.03	320.0	1571.15	325.0	1781.61
330.0	1969.58	335.0	2126.30	340.0	2244.52
345.0	2318.91	350.0	2346.32	355.0	2325.97

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 10.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	2198.75	5.0	2093.78	10.0	1953.60
15.0	1785.33	20.0	1597.08	25.0	1397.42
30.0	1194.71	35.0	996.54	40.0	809.33
45.0	638.00	50.0	486.04	55.0	355.94
60.0	250.29	65.0	174.19	70.0	137.11
75.0	140.44	80.0	164.23	85.0	189.65
90.0	208.07	95.0	215.79	100.0	211.32
105.0	194.96	110.0	169.89	115.0	145.01
120.0	138.13	125.0	164.47	130.0	216.63
135.0	278.48	140.0	338.24	145.0	387.91
150.0	422.02	155.0	437.24	160.0	432.33
165.0	408.14	170.0	367.43	175.0	314.52
180.0	254.78	185.0	194.03	190.0	137.94
195.0	91.55	200.0	58.96	205.0	42.16
210.0	37.58	215.0	38.77	220.0	43.87
225.0	52.80	230.0	63.52	235.0	73.25
240.0	80.48	245.0	85.74	250.0	91.32
255.0	99.74	260.0	111.75	265.0	126.42
270.0	143.91	275.0	169.04	280.0	212.09
285.0	283.91	290.0	389.99	295.0	530.02
300.0	700.16	305.0	894.28	310.0	1104.59
315.0	1322.08	320.0	1537.04	325.0	1739.66
330.0	1920.53	335.0	2071.26	340.0	2184.92
345.0	2256.38	350.0	2282.64	355.0	2262.93

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 15.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	2100.18	5.0	2001.42	10.0	1869.50
15.0	1710.99	20.0	1533.43	25.0	1344.75
30.0	1152.71	35.0	964.41	40.0	785.86
45.0	621.75	50.0	475.49	55.0	349.60
60.0	246.77	65.0	172.14	70.0	135.22
75.0	137.99	80.0	161.34	85.0	186.65
90.0	205.31	95.0	213.71	100.0	210.41
105.0	195.61	110.0	171.88	115.0	146.32
120.0	133.57	125.0	149.59	130.0	192.00
135.0	245.99	140.0	299.49	145.0	344.52
150.0	375.75	155.0	389.99	160.0	386.02
165.0	364.58	170.0	328.14	175.0	280.59
180.0	226.82	185.0	172.10	190.0	121.61
195.0	80.04	200.0	51.31	205.0	37.33
210.0	34.05	215.0	35.07	220.0	39.19
225.0	47.02	230.0	57.01	235.0	66.65
240.0	74.43	245.0	80.64	250.0	87.03
255.0	95.60	260.0	107.22	265.0	121.83
270.0	140.76	275.0	169.24	280.0	216.19
285.0	289.99	290.0	394.63	295.0	529.77
300.0	692.03	305.0	875.93	310.0	1074.35
315.0	1279.01	320.0	1480.94	325.0	1671.02
330.0	1840.56	335.0	1981.74	340.0	2088.11
345.0	2154.90	350.0	2179.31	355.0	2160.60

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 20.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1967.52	5.0	1876.90	10.0	1755.81
15.0	1610.14	20.0	1446.66	25.0	1272.48
30.0	1094.60	35.0	919.48	40.0	752.59
45.0	598.33	50.0	459.96	55.0	340.03
60.0	241.32	65.0	168.99	70.0	132.47
75.0	134.44	80.0	157.06	85.0	182.09
90.0	201.00	95.0	210.29	100.0	208.58
105.0	195.94	110.0	174.35	115.0	148.97
120.0	130.57	125.0	133.89	130.0	162.74
135.0	205.76	140.0	250.75	145.0	289.54
150.0	316.90	155.0	329.75	160.0	326.88
165.0	308.85	170.0	277.77	175.0	237.02
180.0	190.82	185.0	143.81	190.0	100.58
195.0	65.42	200.0	42.16	205.0	32.36
210.0	30.81	215.0	31.39	220.0	33.88
225.0	39.95	230.0	48.82	235.0	58.21
240.0	66.60	245.0	73.96	250.0	81.45
255.0	90.58	260.0	102.38	265.0	117.78
270.0	139.15	275.0	171.70	280.0	222.46
285.0	297.31	290.0	398.95	295.0	526.97
300.0	678.49	305.0	848.75	310.0	1031.46
315.0	1219.23	320.0	1404.03	325.0	1577.67
330.0	1732.33	335.0	1860.98	340.0	1957.79
345.0	2018.46	350.0	2040.44	355.0	2023.05

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 25.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1805.92	5.0	1724.86	10.0	1616.53
15.0	1486.03	20.0	1339.21	25.0	1182.29
30.0	1021.37	35.0	862.14	40.0	709.48
45.0	567.40	50.0	438.97	55.0	326.74
60.0	233.56	65.0	164.51	70.0	128.76
75.0	129.70	80.0	151.19	85.0	175.68
90.0	194.78	95.0	205.08	100.0	205.28
105.0	195.36	110.0	176.73	115.0	152.92
120.0	130.96	125.0	122.05	130.0	134.40
135.0	163.17	140.0	197.35	145.0	228.40
150.0	250.95	155.0	261.93	160.0	260.10
165.0	245.77	170.0	220.65	175.0	187.50
180.0	149.88	185.0	111.71	190.0	77.03
195.0	49.89	200.0	34.18	205.0	29.87
210.0	29.92	215.0	29.53	220.0	29.58
225.0	32.88	230.0	39.91	235.0	48.71
240.0	57.60	245.0	66.15	250.0	74.99
255.0	85.25	260.0	98.19	265.0	115.48
270.0	140.10	275.0	176.57	280.0	229.95
285.0	304.12	290.0	400.81	295.0	519.51
300.0	657.83	305.0	811.70	310.0	975.71
315.0	1143.49	320.0	1308.07	325.0	1462.35
330.0	1599.51	335.0	1713.42	340.0	1798.99
345.0	1852.44	350.0	1871.54	355.0	1855.68

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 30.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1621.64	5.0	1551.05	10.0	1456.68
15.0	1342.83	20.0	1214.39	25.0	1076.59
30.0	934.60	35.0	793.27	40.0	656.84
45.0	528.87	50.0	412.22	55.0	309.36
60.0	223.13	65.0	158.46	70.0	123.99
75.0	123.70	80.0	143.59	85.0	167.17
90.0	186.27	95.0	197.59	100.0	199.89
105.0	193.09	110.0	178.15	115.0	157.38
120.0	135.01	125.0	117.93	130.0	114.09
135.0	125.69	140.0	146.35	145.0	167.87
150.0	184.52	155.0	192.98	160.0	191.83
165.0	181.08	170.0	161.97	175.0	136.69
180.0	108.11	185.0	79.58	190.0	54.82
195.0	38.06	200.0	32.02	205.0	32.53
210.0	33.00	215.0	31.18	220.0	28.36
225.0	27.74	230.0	31.65	235.0	39.12
240.0	48.13	245.0	57.74	250.0	68.11
255.0	80.12	260.0	95.13	265.0	115.18
270.0	143.11	275.0	182.45	280.0	236.60
285.0	308.04	290.0	397.77	295.0	505.26
300.0	628.45	305.0	763.96	310.0	907.29
315.0	1053.08	320.0	1195.52	325.0	1328.63
330.0	1446.67	335.0	1544.49	340.0	1617.78
345.0	1663.36	350.0	1679.32	355.0	1665.13

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 35.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1421.85	5.0	1362.05	10.0	1282.14
15.0	1185.56	20.0	1076.28	25.0	958.54
30.0	836.57	35.0	714.38	40.0	595.55
45.0	483.15	50.0	379.76	55.0	287.73
60.0	209.82	65.0	150.64	70.0	118.09
75.0	116.45	80.0	134.22	85.0	156.40
90.0	175.18	95.0	187.37	100.0	191.78
105.0	188.26	110.0	177.47	115.0	160.88
120.0	141.00	125.0	121.55	130.0	107.38
135.0	102.67	140.0	107.37	145.0	116.90
150.0	125.92	155.0	130.73	160.0	129.46
165.0	121.73	170.0	108.29	175.0	90.79
180.0	71.64	185.0	53.97	190.0	41.52
195.0	36.96	200.0	38.10	205.0	39.92
210.0	39.47	215.0	36.17	220.0	31.05
225.0	26.50	230.0	25.85	235.0	30.58
240.0	38.98	245.0	49.36	250.0	61.32
255.0	75.45	260.0	93.02	265.0	115.90
270.0	146.38	275.0	186.96	280.0	239.84
285.0	306.55	290.0	387.60	295.0	482.40
300.0	589.23	305.0	705.31	310.0	826.99
315.0	949.96	320.0	1069.50	325.0	1180.79
330.0	1279.16	335.0	1360.44	340.0	1421.12
345.0	1458.61	350.0	1471.34	355.0	1458.87

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 40.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1214.25	5.0	1165.07	10.0	1099.40
15.0	1019.92	20.0	929.70	25.0	832.06
30.0	730.33	35.0	627.72	40.0	527.14
45.0	431.18	50.0	342.09	55.0	262.04
60.0	193.60	65.0	140.95	70.0	110.98
75.0	107.98	80.0	123.14	85.0	143.37
90.0	161.38	95.0	174.11	100.0	180.40
105.0	180.05	110.0	173.47	115.0	161.65
120.0	146.08	125.0	128.80	130.0	112.30
135.0	99.11	140.0	90.96	145.0	87.65
150.0	86.99	155.0	86.26	160.0	83.47
165.0	77.80	170.0	69.57	175.0	60.07
180.0	51.39	185.0	45.87	190.0	44.65
195.0	46.41	200.0	48.59	205.0	49.17
210.0	47.19	215.0	42.60	220.0	36.06
225.0	28.97	230.0	23.90	235.0	24.33
240.0	31.01	245.0	41.68	250.0	55.06
255.0	71.22	260.0	91.07	265.0	116.00
270.0	147.63	275.0	187.61	280.0	237.31
285.0	297.60	290.0	368.66	295.0	449.88
300.0	539.83	305.0	636.30	310.0	736.42
315.0	836.83	320.0	933.87	325.0	1023.77
330.0	1102.91	335.0	1168.05	340.0	1216.44
345.0	1246.06	350.0	1255.67	355.0	1244.90

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 45.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1006.67	5.0	967.50	10.0	915.29
15.0	852.02	20.0	779.98	25.0	701.65
30.0	619.57	35.0	536.18	40.0	453.80
45.0	374.51	50.0	300.23	55.0	232.87
60.0	174.73	65.0	129.42	70.0	102.67
75.0	98.45	80.0	110.57	85.0	128.27
90.0	144.96	95.0	157.73	100.0	165.44
105.0	167.83	110.0	165.14	115.0	158.01
120.0	147.39	125.0	134.49	130.0	120.66
135.0	107.28	140.0	95.49	145.0	85.92
150.0	78.54	155.0	72.77	160.0	67.88
165.0	63.42	170.0	59.49	175.0	56.59
180.0	55.28	185.0	55.64	190.0	57.07
195.0	58.52	200.0	58.93	205.0	57.56
210.0	54.05	215.0	48.42	220.0	41.07
225.0	32.77	230.0	25.06	235.0	21.23
240.0	25.05	245.0	35.39	250.0	49.66
255.0	67.16	260.0	88.28	265.0	113.87
270.0	144.96	275.0	182.54	280.0	227.42
285.0	280.02	290.0	340.30	295.0	407.66
300.0	480.95	305.0	558.46	310.0	638.03
315.0	717.14	320.0	793.04	325.0	862.96
330.0	924.20	335.0	974.33	340.0	1011.33
345.0	1033.67	350.0	1040.42	355.0	1031.31

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 50.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	806.66	5.0	776.55	10.0	736.56
15.0	688.06	20.0	632.67	25.0	572.18
30.0	508.42	35.0	443.19	40.0	378.25
45.0	315.21	50.0	255.63	55.0	201.13
60.0	153.66	65.0	116.19	70.0	93.19
75.0	88.04	80.0	96.88	85.0	111.53
90.0	126.29	95.0	138.46	100.0	146.93
105.0	151.37	110.0	151.88	115.0	148.84
120.0	142.87	125.0	134.71	130.0	125.21
135.0	115.21	140.0	105.44	145.0	96.50
150.0	88.73	155.0	82.29	160.0	77.19
165.0	73.36	170.0	70.76	175.0	69.26
180.0	68.67	185.0	68.59	190.0	68.52
195.0	67.90	200.0	66.20	205.0	63.08
210.0	58.35	215.0	52.02	220.0	44.30
225.0	35.65	230.0	27.00	235.0	20.76
240.0	21.70	245.0	30.96	250.0	45.20
255.0	62.85	260.0	83.79	265.0	108.42
270.0	137.28	275.0	170.92	280.0	209.72
285.0	253.82	290.0	303.05	295.0	356.87
300.0	414.38	305.0	474.32	310.0	535.11
315.0	594.94	320.0	651.89	325.0	703.97
330.0	749.29	335.0	786.14	340.0	813.08
345.0	829.05	350.0	833.36	355.0	825.82

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 55.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	621.03	5.0	598.84	10.0	569.49
15.0	533.92	20.0	493.19	25.0	448.53
30.0	401.19	35.0	352.44	40.0	303.54
45.0	255.69	50.0	210.10	55.0	168.05
60.0	131.11	65.0	101.56	70.0	82.65
75.0	77.00	80.0	82.60	85.0	93.80
90.0	106.05	95.0	116.93	100.0	125.37
105.0	130.96	110.0	133.70	115.0	133.77
120.0	131.56	125.0	127.51	130.0	122.15
135.0	116.00	140.0	109.57	145.0	103.27
150.0	97.44	155.0	92.31	160.0	87.99
165.0	84.49	170.0	81.76	175.0	79.64
180.0	77.90	185.0	76.26	190.0	74.38
195.0	71.94	200.0	68.68	205.0	64.38
210.0	58.93	215.0	52.34	220.0	44.73
225.0	36.37	230.0	27.95	235.0	21.32
240.0	20.70	245.0	28.39	250.0	41.47
255.0	57.90	260.0	77.16	265.0	99.28
270.0	124.49	275.0	152.99	280.0	184.90
285.0	220.19	290.0	258.63	295.0	299.78
300.0	342.94	305.0	387.24	310.0	431.58
315.0	474.75	320.0	515.43	325.0	552.33
330.0	584.18	335.0	609.84	340.0	628.37
345.0	639.04	350.0	641.43	355.0	635.38

Call: WGDJ.APP
 Freq: 1300 kHz
 RENSSELAER, NY, US
 Lat: 42-35-23 N
 Lng: 073-44-37 W
 Power: 8.0 kW
 Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

 Standard Pattern
 Calculated at 60.0 Degrees Elevation

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	455.47	5.0	439.92	10.0	419.50
15.0	394.77	20.0	366.42	25.0	335.22
30.0	301.98	35.0	267.55	40.0	232.77
45.0	198.49	50.0	165.59	55.0	135.01
60.0	107.93	65.0	85.95	70.0	71.25
75.0	65.61	80.0	68.29	85.0	75.92
90.0	85.20	95.0	94.14	100.0	101.72
105.0	107.51	110.0	111.39	115.0	113.41
120.0	113.77	125.0	112.71	130.0	110.53
135.0	107.55	140.0	104.06	145.0	100.34
150.0	96.61	155.0	93.03	160.0	89.70
165.0	86.66	170.0	83.88	175.0	81.28
180.0	78.71	185.0	76.03	190.0	73.06
195.0	69.62	200.0	65.58	205.0	60.81
210.0	55.27	215.0	48.96	220.0	41.97
225.0	34.52	230.0	27.22	235.0	21.62
240.0	20.93	245.0	27.06	250.0	38.05
255.0	52.05	260.0	68.36	265.0	86.78
270.0	107.31	275.0	129.95	280.0	154.66
285.0	181.34	290.0	209.74	295.0	239.52
300.0	270.20	305.0	301.18	310.0	331.75
315.0	361.15	320.0	388.56	325.0	413.16
330.0	434.18	335.0	450.92	340.0	462.80
345.0	469.37	350.0	470.38	355.0	465.71

Call: WGDJ.APP
Freq: 1300 kHz
RENSSELAER, NY, US
Lat: 42-35-23 N
Lng: 073-44-37 W
Power: 8.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.550	150.8	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.565	-138.5	180.0	340.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	110.0	151.6	70.9	90.0	0	0	0.0	0.0	0.0	0.0
5	0.750	-39.0	175.0	40.0	90.0	0	0	0.0	0.0	0.0	0.0
6	0.455	180.3	233.4	20.5	90.0	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WJFK.L	US	MD	BALTIMORE	216.07	17.03	27.38	126.90	1.030	40.59	33.99	6.60
50% = 2.9, 25% = 4.121; WJMO.L=1.71 WFBG.L=1.70 WOAD.L=1.62 WAVZ.L=1.36 WLXG.L=1.30 WKZN.L=1.25 WHIO.L=1.12 WFFG.L=1.07 KAKC.L=1.04											
WAVZ.L	US	CT	NEW HAVEN	155.25	41.78	55.99	328.04	7.043	107.36	93.09	14.27
50% = 16.024, 25% = 17.983; WJFK.L=14.09 WGDJ.L=7.64 WJMO.L=5.79 WIMG.L=5.76											
CBAF.O/	CA	NB	MONCTON	58.60	11.39	11.39	84.82	4.981	293.64	276.14	17.50
50% = 9.962, 25% = 14.163; WJMO.L=8.33 WJFK.L=5.46 WXRL.L=4.97 WAVZ.L=4.87 WOOD.L=4.76 WGDJ.L=4.23 WKZN.L=3.51											
WJMO.L	US	OH	CLEVELAND	260.84	10.51	17.96	66.31	1.858	140.12	113.64	26.48
50% = 5.417, 25% = 7.433; WLXG.L=4.84 WOOD.L=2.43 WJFK.L=2.27 WXRL.L=2.22 WHIO.L=2.09 WOAD.L=2.01 WNQM.L=1.93 WKZN.L=1.92											
WIMG.L	US	NJ	EWING	200.57	27.21	40.61	219.14	3.599	82.11	50.06	32.05
50% = 13.636, 25% = 14.395; WJFK.L=13.64 WAVZ.L=4.61											
WTLB.L	US	NY	UTICA	293.05	46.42	60.14	350.96	2.896	412.62	368.76	43.86
50% = 9.523, 25% = 11.585; WORC.L=6.90 WEMG.L=4.73 WADB.L=4.55 WRSB.L=4.04 CIWW.O/A=3.72 WDCT.L=3.65											
WKBK.L	US	NH	KEENE	70.82	49.06	62.37	365.13	1.026	140.55	92.88	47.67
50% = 3.243, 25% = 4.217; WNBK.L=2.07 WAVZ.L=1.81 WRNI.L=1.72 WJNO.L=1.56 YVPF.O-A=1.29 KKR.L=1.03 YVLF.O-A=1.03 WJFK.L=1.03											

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WKZN.L 50% = 13.295, 25% = 15.094; WJFK.L=13.29 WJMO.L=5.80 WAVZ.L=4.17	US	PA	WEST HAZLETON	226.36	28.18	41.76	226.29	3.774	83.38	30.24	53.14
WOOD.L 50% = 4.231, 25% = 6.392; WHIO.L=4.23 WIRL.L=2.11 WLXG.L=2.09 WOAD.L=2.05 WJMO.L=2.01 WRDZ.L=1.86 WNQM.L=1.56	US	MI	GRAND RAPIDS	275.13	6.22	11.60	34.31	1.560	227.29	170.43	56.86
WORC.L 50% = 6.433, 25% = 7.843; WEMG.L=4.41 WLOB.L=3.49 WADB.L=3.13 .O-A=2.66 CHGB.P/U=2.25 CIWW.O/A=2.04 WDCT.L=1.95	US	MA	WORCESTER	103.85	41.01	55.27	320.62	1.954	304.70	178.44	126.26
WXRL.L 50% = 34.53, 25% = 37.485; WJMO.L=34.53 WJFK.L=11.26 WIMG.L=9.27	US	NY	LANCASTER	276.32	18.87	29.92	137.49	9.271	337.14	195.09	142.05
WBNF.L 50% = 3.972, 25% = 5.235; WKBK.L=3.97 WRNI.L=1.64 WFBG.L=1.61 WJFK.L=1.54 WJMO.L=1.48 WADO.L=1.34	US	NY	BINGHAMTON	252.73	36.55	50.92	290.58	1.309	225.19	66.96	158.23
WICH.L 50% = 8.004, 25% = 9.567; WEMG.L=5.25 WORC.L=4.66 WADB.L=3.85 WLOB.L=3.32 WDCT.L=2.93 .O-A=2.81	US	CT	NORWICH	129.39	38.31	52.67	304.20	2.392	393.14	126.43	266.71
KGLO.L 50% = 4.576, 25% = 5.299; KKAR.L=3.53 WOAD.L=2.07 KKML.L=2.05 KOLY.L=1.80 KAKC.L=1.50 KVET.L=1.29	US	IA	MASON CITY	278.49	1.62	5.00	12.96	1.287	496.54	195.31	301.22
WLXG.L 50% = 10.162, 25% = 12.4; WNQM.L=7.69 WOOD.L=6.64 WSYD.L=4.46 WOAD.L=4.01 WRDZ.L=3.81	US	KY	LEXINGTON	244.92	5.53	10.59	34.22	3.100	452.92	88.64	364.28
WOAD.L 50% = 3.174, 25% = 4.999; WDXI.L=2.31 WNQM.L=2.18 HJOG.O-A=1.43 WIBR.L=1.41 XEGA.P/A=1.39 XE.O/A=1.37 KKML.L=1.36 XEKW.O/A=1.33 XEDG.O/A=1.32 KSET.C=1.31	US	MS	JACKSON	237.20	0.35	3.28	13.48	1.250	463.53	82.23	381.30
WNQM.L 50% = 6.855, 25% = 8.581; WOAD.L=6.85 KAKC.L=3.30 WSYD.L=3.13 WOOD.L=2.45	US	TN	NASHVILLE	242.19	3.17	7.17	22.77	2.145	471.02	87.20	383.82
WRNI.L 50% = 12.311, 25% = 12.311; WKBK.L=11.01 WBNF.L=5.51	US	RI	PROVIDENCE	112.54	34.46	48.75	275.21	3.078	559.18	169.63	389.56
WRSB.L 50% = 7.87, 25% = 10.166; WDCT.L=5.42 WEMG.L=4.38 WTLCL=3.67 WORC.L=3.47 CIWW.O/A=3.42 WDPN.L=3.12 WJMO.L=2.82	US	NY	CANANDAIGUA	277.71	25.43	38.45	197.56	2.541	643.22	214.41	428.82
WADB.L 50% = 8.676, 25% = 9.702; WDCT.L=6.53 WEMG.L=5.72 WICH.L=3.13 .O-A=3.01	US	NJ	ASBURY PARK	186.41	28.00	41.55	226.18	2.425	536.18	83.41	452.77

FIGURE 8

NIGHTTIME SERVICE CONTOUR 50% RSS CALCULATIONS

Station Information:

Call: WGDJ.APP

Freq: 1300 kHz

RENSSELAER, NY, US

Lat: 42-35-23 N

Lng: 073-44-37 W

Power: 8.0 kW

Theo RMS: 935.84 mV/m @ 1km @ 8.0 kW

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Dist (km)	Azi (deg)	Theta		Max V-Rad (mV/m)	SW Mult (uV/m)	Limit (mV/m)	Limit (%)	RSS Limit (mV/m)	
							Min (deg)	Max (deg)						
WAVZ.L	1300	NEW HAVEN	CT	US	159.0	335.8	41.8	56.0	337.52	328.04	22.144	100.0	22.144	
WJFK.L	1300	BALTIMORE	MD	US	442.3	34.1	17.0	27.4	479.07	126.90	12.159	54.9	25.262	<<-50% RSS
WJMO.L	1300	CLEVELAND	OH	US	675.3	75.5	10.5	18.0	899.26	66.31	11.925	47.2	27.935	
WKZN.L	1300	WEST HAZLETON	PA	US	262.1	44.9	28.2	41.8	259.61	226.29	11.749	42.1	30.306	<<-25% rss
WIMG.L	1300	EWING	NJ	US	272.7	19.8	27.2	40.6	86.79	219.14	3.804	12.6	30.543	
WOOD.L	1300	GRAND RAPIDS	MI	US	973.2	87.0	6.2	11.6	406.53	34.31	2.790	9.1	30.671	
WXRL.L	1300	LANCASTER	NY	US	400.4	93.0	18.9	29.9	91.40	137.49	2.513	8.2	30.773	
WNQM.L	1300	NASHVILLE	TN	US	1331.7	53.8	3.2	7.2	223.58	22.77	1.018	3.3	30.790	
WOAD.L	1300	JACKSON	MS	US	1834.2	47.1	0.4	3.3	350.80	13.48	0.946	3.1	30.805	
WKBK.L	1290	KEENE	NH	US	123.6	251.8	49.1	62.4	118.43	365.13	0.865	2.8	30.817	

WGDJ.APP
SOLID LINE CONTOURS
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 8 kW
RMS: 935.844 mV/m @1km

WGDJ LICENSED
DASHED LINE CONTOURS
Freq: 1300 kHz
Class: B
Latitude: 42-35-23 N
Longitude: 073-44-37 W
Power: 5 kW
RMS: 745.13 mV/m @1km

CONTOURS ARE BASED UPON
FCC M3 MAP OF SOIL CONDUCTIVITY
OR MEASURED DATA SUBMITTED WITH
THIS APPLICATION

PRESENT AND PROPOSED SERVICE CONTOURS
CITY OF LICENSE COVERAGE CONTOUR 25.26 MV/M GW
WGDJ (AM) 1300 KHZ

FIGURE 8

25.26 MV/M NIGHTTIME GW (50% RSS)
NIGHTTIME INTERFERENCE FREE CONTOUR

100% COVERAGE OF CITY OF LICENSE
RENSSELAER, NEW YORK

WGDJ.L
WGDJ.APP

PROPOSED Contour: GW 25.262 mV/m
Population Database: 2005 US Census Estimate
Total Population: 168,328

PRESENT Contour: GW 25.262 mV/m
Population Database: 2005 US Census Estimate
Total Population: 137,232

