

WMFN.L
ZEELAND, MI
BL19941014AE
Facility ID: 55089
Freq: 640 kHz
Class: B
Latitude: 42-48-59 N
Longitude: 085-57-24 W
Power: 1.2 kW
RMS: 308.2 mV/m @1km
Towers: 1
Augs: 0

Exhibit 17.1 Map of Present Map M3 Domestic Daytime Allocation

— 25.0 mV/m
— 5.0 mV/m
— 0.5 mV/m
- - 0.25 mV/m
- - 0.025 mV/m

+
WOI.Lmc

+
WSCR.Lmc

+
WTMJ.L

+
WMFN.L

+
WHLO.L

+
KYFI.L

+
WTUV.L

+
WLAP.L

+
WXSM.L

+
WSM.L

+
WCRV.L

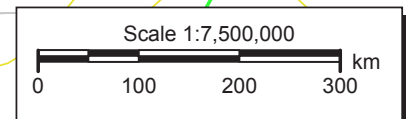


Exhibit 17.1

Tabulation of Present Map M3 Domestic Daytime Allocation

AM Daytime Study

Reference Station:

Call: WMFN.L Freq: 640 kHz ZEELAND, MI, US
 Lat: 42-48-59 N Power: 1.2 kW
 Lng: 085-57-24 W Theo RMS: 308.20 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	93.7	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
WHLO.L	640	AKRON	OH	406.1	119.8	88.64	-2130.00**
WOI.Lmc*	640	AMES	IA	643.0	259.2	109.20	44.27
WTMJ.L	620	MILWAUKEE	WI	173.1	265.3	75.53	75.53
WSCR.Lmc*	670	CHICAGO	IL	199.9	239.9	141.92	141.92
WLAP.L	630	LEXINGTON	KY	536.6	166.7	207.13	250.11
KYFI.L	630	ST LOUIS	MO	578.8	216.0	253.75	271.15
WXSM.L	640	BLOUNTVILLE	TN	761.6	157.7	379.10	404.87
WCRV.L	640	COLLIERVILLE	TN	933.1	200.3	329.24	460.21
WTUV.L	620	LOUISVILLE	KY	500.2	177.6	462.19	462.19
WSM.L	650	NASHVILLE	TN	760.5	185.2	438.31	478.67

mc* indicates supplemental Measured Conductivity Information as noted in **Exhibit(s) 17.7** to **17.8**.

** Contour overlap over water with WHLO(AM) will be eliminated as a result of this proposal.

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

WMFN.P
PEOTONE, IL
Proposed Operation
Facility ID: 55089
Freq: 640 kHz
Class: B
Latitude: 41-18-04 N
Longitude: 087-50-07 W
Power: 4.4 kW
RMS: 592.573 mV/m @1km
Towers: 4
Augs: 0

— 25.0 mV/m
— 5.0 mV/m
— 0.5 mV/m
- - 0.25 mV/m
- - 0.025 mV/m

Exhibit 17.3 Map of Proposed Map M3 Domestic Daytime Allocation

+
WOI.Lmc

+
WSCR.Lmc

+
WMFN.P

+
WHLO.L

+
KYFI.L

+
WTUV.L

+
WLAP.L

+
WXSM.L

+
WSM.L

+
WCRV.L

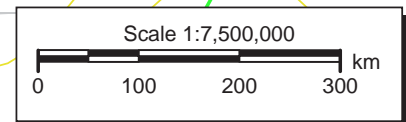


Exhibit 17.2

Tabulation of Proposed Map M3 Domestic Daytime Allocation

AM Daytime Study

Reference Station:

Call: WMFN.P Freq: 640 kHz PEOTONE, IL, US
 Lat: 41-18-04 N Power: 4.4 kW
 Lng: 087-50-07 W Theo RMS: 592.57 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	-999.0	0	1	63.0	12.0	0.0	0.0
2	1.060	-6.5	175.0	305.0	-999.0	0	1	70.0	12.0	0.0	0.0
3	1.110	108.5	84.0	250.0	-999.0	0	1	70.0	12.0	0.0	0.0
4	1.010	102.0	175.0	305.0	-999.0	1	1	63.0	12.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
WHLO.L	640	AKRON	OH	519.7	94.7	9.29	2.97
WSCR.Lmc	670	CHICAGO	IL	73.0	344.2	15.74	15.74
WTMJ.L	620	MILWAUKEE	WI	157.4	353.0	26.87	26.87
WOI.Lmc	640	AMES	IA	493.7	277.0	7.56	49.07
KYFI.L	630	ST LOUIS	MO	350.9	213.0	50.40	75.50
WCRV.L	640	COLLIERVILLE	TN	723.1	193.9	32.80	130.48
WSM.L	650	NASHVILLE	TN	595.7	171.6	191.49	218.09
WLAP.L	630	LEXINGTON	KY	457.0	141.6	204.54	234.72
WTUV.L	620	LOUISVILLE	KY	378.4	151.8	331.27	331.27
WXSM.L	640	BLOUNTVILLE	TN	708.1	140.2	313.12	427.84

mc* indicates supplemental Measured Conductivity Information as noted in **Exhibit(s) 17.7 to 17.8.**

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcasting Engineering Consultants

Coldwater, MI 49036

Exhibit 17.3 Map of Present Region 2 International Daytime Allocation

WMFN.L
ZEELAND, MI
BL19941014AE
Facility ID: 55089
Freq: 640 kHz
Class: B
Latitude: 42-48-59 N
Longitude: 085-57-24 W
Power: 1.2 kW
RMS: 308.2 mV/m @1km
Towers: 1
Augs: 0

— 0.5 mV/m
— 0.025 mV/m

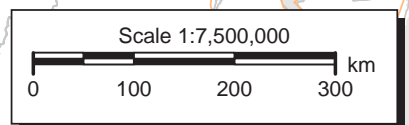


Exhibit 17.3

Tabulation of Present Region 2 International Daytime Allocation

AM Daytime Study

Reference Station:

Call: WMFN.L Freq: 640 kHz ZEELAND, MI, US
 Lat: 42-48-59 N Power: 1.2 kW
 Lng: 085-57-24 W Theo RMS: 308.20 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	93.7	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
CFCO.P	630	CHATHAM	ON	306.4	101.3	-4269.00**	-4269.00**
CFMJ.P	640	RICHMOND HILL	ON	533.3	87.9	46.33	25.76
CFMJ.O	640	RICHMOND HILL	ON	533.3	87.9	47.77	26.53
CFOB.P	640	FORT FRANCES	ON	867.4	315.1	423.01	399.07

** Contour overlap with CFCO(AM).P will be eliminated as a result of this proposal.

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.
 Broadcasting Engineering Consultants
 Coldwater, MI 49036

Exhibit 17.4 Map of Proposed Region 2 International Daytime Allocation

WMFN.P
PEOTONE, IL
Proposed Operation
Facility ID: 55089
Freq: 640 kHz
Class: B
Latitude: 41-18-04 N
Longitude: 087-50-07 W
Power: 4.4 kW
RMS: 592.573 mV/m @1km
Towers: 4
Augs: 0

— 0.5 mV/m
— 0.025 mV/m

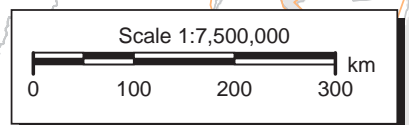


Exhibit 17.4

Tabulation of Proposed Region 2 International Daytime Allocation

AM Daytime Study

Reference Station:

Call: WMFN.P

Freq: 640 kHz

PEOTONE, IL, US

Lat: 41-18-04 N

Power: 4.4 kW

Lng: 087-50-07 W

Theo RMS: 592.57 mV/m @ 1km

#	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	-999.0	0	1	63.0	12.0	0.0	0.0
2	1.060	-6.5	175.0	305.0	-999.0	0	1	70.0	12.0	0.0	0.0
3	1.110	108.5	84.0	250.0	-999.0	0	1	70.0	12.0	0.0	0.0
4	1.010	102.0	175.0	305.0	-999.0	1	1	63.0	12.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
CFCO.P	630	CHATHAM	ON	475.4	77.9	63.07	63.07
CFMJ.P	640	RICHMOND HILL	ON	723.8	76.1	252.37	240.25
CFMJ.O	640	RICHMOND HILL	ON	723.8	76.1	252.75	240.43
CFOB.P	640	FORT FRANCES	ON	923.8	329.4	431.26	429.66

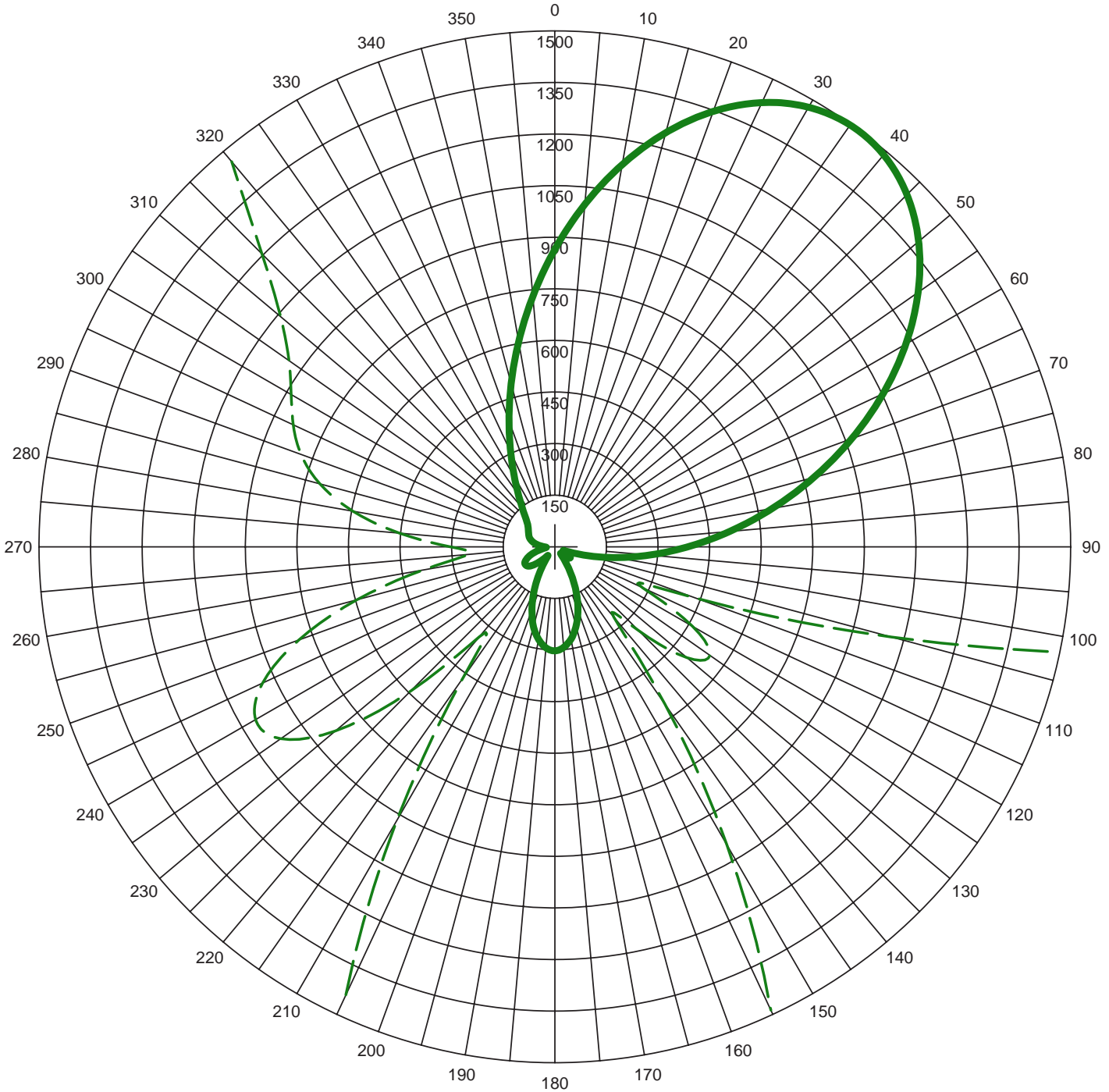
Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcasting Engineering Consultants

Coldwater, MI 49036

Exhibit 17.5
Polar Plot of Proposed Daytime Standard Pattern



Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
- - - Pattern 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	-999.0	0	1	63.0	12.0	0.0	0.0
2	1.060	-6.5	175.0	305.0	-999.0	0	1	70.0	12.0	0.0	0.0
3	1.110	108.5	84.0	250.0	-999.0	0	1	70.0	12.0	0.0	0.0
4	1.010	102.0	175.0	305.0	-999.0	1	1	63.0	12.0	0.0	0.0

Call: WMFN.P
Freq: 640 kHz
PEOTONE, IL, US
Hours: D
Lat: 41-18-04 N
Lng: 087-50-07 W
Power: 4.4 kW
Theo RMS: 592.57 mV/m@1km
 @ 4.4 kW

MUNN-REESE, INC.
Broadcast Engineering Consultants
COLDWATER, MI 49036

Exhibit 17.6

Tabulation of Proposed Daytime Standard Pattern

AM Radiation Report

Call: WMFN.P
Freq: 640 kHz
PEOTONE, IL, US
Hours: D
Lat: 41-18-04 N
Lng: 087-50-07 W
Power: 4.4 kW
Theo RMS: 592.57 mV/m @ 1km @ 4.4 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swth	TL Swth	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	-999.0	0	1	63.0	12.0	0.0	0.0
2	1.060	-6.5	175.0	305.0	-999.0	0	1	70.0	12.0	0.0	0.0
3	1.110	108.5	84.0	250.0	-999.0	0	1	70.0	12.0	0.0	0.0
4	1.010	102.0	175.0	305.0	-999.0	1	1	63.0	12.0	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	864.65	120.0	46.18	240.0	100.45
5.0	998.90	125.0	55.04	245.0	93.75
10.0	1128.29	130.0	50.11	250.0	79.22
15.0	1246.40	135.0	34.42	255.0	59.66
20.0	1347.10	140.0	26.62	260.0	38.97
25.0	1424.99	145.0	55.74	265.0	25.15
30.0	1475.86	150.0	100.14	270.0	30.32
35.0	1497.05	155.0	148.66	275.0	45.28
40.0	1487.56	160.0	196.24	280.0	59.59
45.0	1448.09	165.0	238.70	285.0	70.72
50.0	1380.93	170.0	272.38	290.0	78.53
55.0	1289.62	175.0	294.22	295.0	83.93
60.0	1178.68	180.0	302.12	300.0	88.52
65.0	1053.23	185.0	295.11	305.0	94.41
70.0	918.59	190.0	273.52	310.0	104.12
75.0	780.00	195.0	239.01	315.0	120.43
80.0	642.39	200.0	194.45	320.0	146.18
85.0	510.14	205.0	143.75	325.0	184.07
90.0	387.03	210.0	91.81	330.0	236.35
95.0	276.21	215.0	46.48	335.0	304.59
100.0	180.22	220.0	34.15	340.0	389.41
105.0	101.32	225.0	59.44	345.0	490.28
110.0	43.51	230.0	83.31	350.0	605.42
115.0	28.20	235.0	97.30	355.0	731.67

WOI(AM) – Ames, IA

Measurement Information

Measurements on WOI(AM) - Radial 65.0°T were taken by Mr. Jon Marinkovic, an engineer in the employ of Birach Broadcasting Corporation. Mr. Marinkovic used Potomac Instruments FIM-41 Field Meter #1632 for all measurements taken. The Field Meter was last calibrated on January 21, 2010.

Measurements on WOI(AM) - Radial 85.0°T from 0.0 km to 342.15 km were taken by Mr. Dave Knippel, an employee of Carl E. Smith Consulting Engineer's under contract by WOI(AM) licensee, Iowa State University of Science and Technology. These measurements were part of a May 5, 2004 Informal Objection filed against then pending application BP-20040108ALK and are a matter of record before the Commission. Mr. Knippel used Potomac Instruments FIM-41 Field Meter #1879 for all WOI(AM) – Radial 85.0°T measurements taken from 0.0 km to 342.15 km.

Measurements on WOI(AM) – Radial 85.0°T from 342 km to 376 km were taken by Mr. Mr. Larry Langford, an independent contract an engineer in the employ of Birach Broadcasting Corporation. Mr. Langford used Potomac Instruments FIM-41 Field Meter #2021 for this range of measurements. The Field Meter was last calibrated on March 25, 2011.

All measurements on WOI(AM) – Radial 105.0°T were taken by Mr. Larry Langford, an independent contract an engineer in the employ of Birach Broadcasting Corporation. Mr. Langford used Potomac Instruments FIM-41 Field Meter #1263 for all measurements taken. The Field Meter was last calibrated on Sept. 23, 1999 at the time the measurements were taken.

Exhibit 17.7a – Summary of measured Conductivities for WOI – Ames, IA

Exhibit 17.7b – Family of Curves (Exhibit(s) 17.5d, 17.5h & 17.5j)

Exhibit 17.7c – Tabulation & Graph of WOI(AM) – 65.0°T

Exhibit 17.7d – Tabulation & Graph of WOI(AM) – 85.0°T (part 1)

Exhibit 17.7e – Tabulation & Graph of WOI(AM) – 85.0°T (part 2)

Exhibit 17.7f – Tabulation & Graph of WOI(AM) – 105.0°T

Exhibit 17.7a

Summary of Measured Conductivities for WOI(AM) - Ames, IA

<u>Azimuth</u> <u>(° True)</u>	<u>Measured</u> <u>Conductivity</u>	<u>Distance</u>	<u>Azimuth</u> <u>(° True)</u>	<u>Measured</u> <u>Conductivity</u>	<u>Distance</u>
65.0°	10.0:	0.00 km to 220 km	85.0°	2.0:	0.00 km to 2.00 km
	8.0:	220 km to 280 km		4.0:	2.00 km to 6.00 km
	7.0:	280 km to 300 km		10.0:	6.00 km to 10.0 km
	4.0:	300 km to 321 km		20.0:	10.0 km to 20.0 km
105.0°				40.0:	20.0 km to 70.0 km
				20.0:	70.0 km to 130 km
	15.0:	0.00 km to 220 km		30.0:	130 km to 195 km
	10.0:	220.0 km to 340 km		20.0:	195 km to 230 km
	8.0:	340.0 km to 360 km		15.0:	230 km to 250 km
	7.0:	360.0 km to 388 km		10.0:	250 km to 342 km
				7.0:	342 km to 376 km

Exhibit 17.7b

Family of Curves (WOI(AM) - 640 kHz)

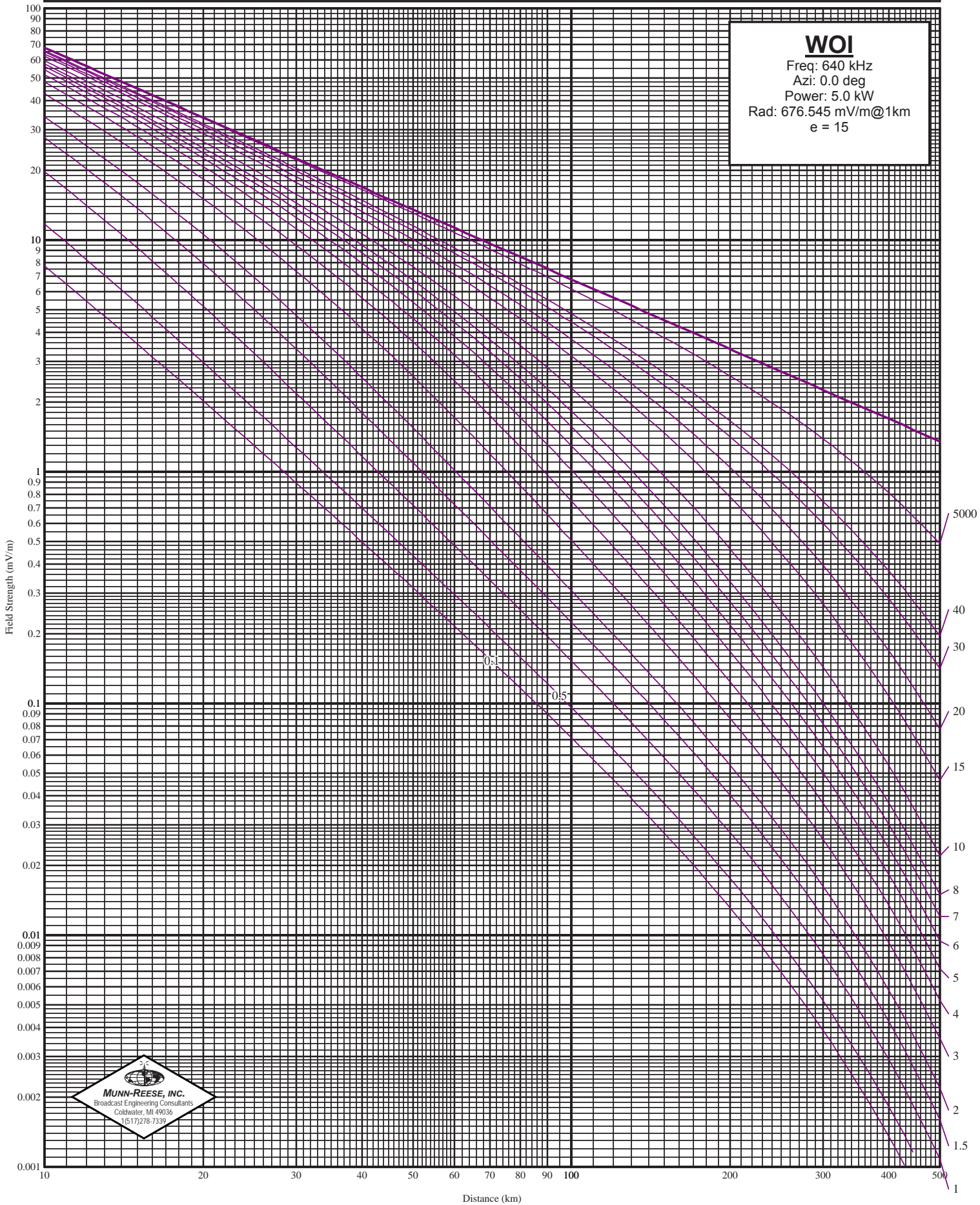


Exhibit 17.7c

Tabulation of WOI(AM) – Radial 65.0°T

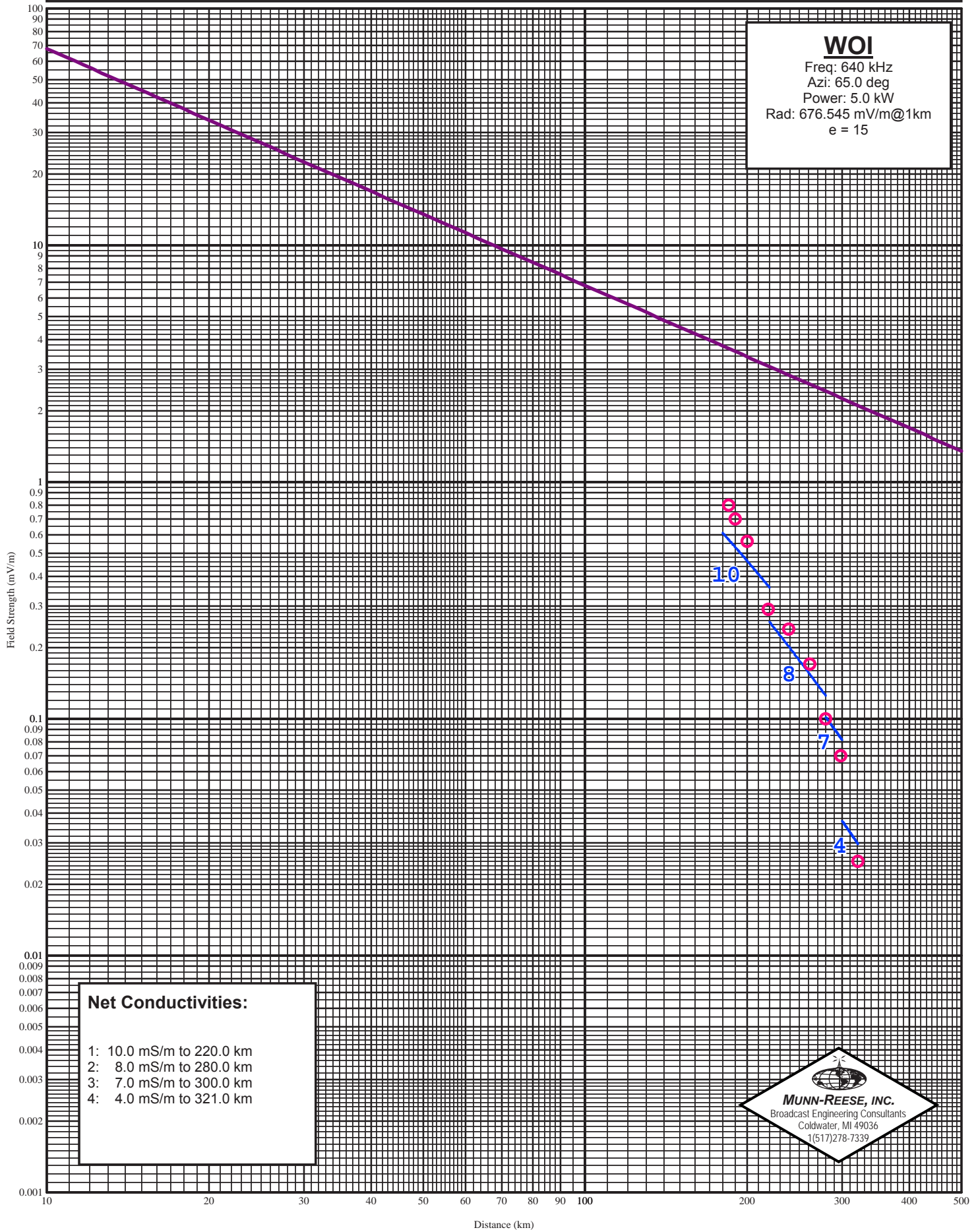
Call:	WOI(AM)	Frequency:	640 kHz	Engineer:	Jon Marinkovic
City:	Ames	Bearing(°T):	065.0°T	Meter:	FIM-41 #1632
State:	Iowa	Power(kW):	5.0 kW	Calibration:	1/21/2010

Measurements for 65.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	185.00	114.95	0.800		6/9/2012	1343
2	190.00	118.06	0.700		6/9/2012	1405
3	200.00	124.27	0.560		6/9/2012	1313
4	219.00	136.08	0.290		6/9/2012	1223
5	239.00	148.51	0.240		6/9/2012	1123
6	261.00	162.18	0.170		6/9/2012	1058
7	280.00	173.98	0.100		6/9/2012	1031
8	298.00	185.17	0.070		6/9/2012	1001
9	321.00	199.46	0.025		6/9/2012	0932

Exhibit 17.7c

Graph of WOI(AM) - Radial 65.0°T



**Exhibit 17.7d - Tabulation & Graph
of WOI(AM) - Radial 85.0°T (part 1)**



APPENDIX B

**SUPPLEMENTAL WOI FIELD
STRENGTH MEASUREMENTS**

Exhibit 17.7d - Tabulation & Graph of WOI(AM) - Radial 85.0°T (part 1)



TABLE B-1

WOI NONDIRECTIONAL FIELD STRENGTH MEASUREMENTS - 85° RADIAL

Iowa State University
Ames, IA

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (CST)</u>
(3/5/04)			
1	0.49	1020	1532
2	0.53	950	1528
3	0.61	855	1525
4	0.70	760	1522
5	0.79	700	1515
6	0.90	640	1508
7	1.00	580	1500
(3/4/04)			
8	1.05	465	1631
9	1.16	405	1625
10	1.29	395	1619
11	1.40	445	1614
12	1.48	225	1610
13	1.60	312	1604
14	1.69	265	1557
15	1.80	242	1553
16	1.89	284	1544
17	1.98	301	1541
18	2.05	280	1535
19	2.16	242	1530
20	2.24	270	1325
21	2.29	248	1521

Exhibit 17.7d - Tabulation & Graph of WOI(AM) - Radial 85.0°T (part 1)



TABLE B-1 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (CST)</u>
22	2.37	252	1518
23	2.45	243	1510
24	2.54	229	1502
25	2.63	223	1456
26	2.69	226	1453
27	2.82	212	1449
28	2.90	208	1441
29	3.00	219	1435
30	3.48	177	1416
31	4.28	149	1410
32	5.10	116	1407
33	6.65	99.0	1357
34	6.87	90.0	1341
35	7.47	85.5	1332
36	9.15	69.0	1212
37	9.97	66.0	1138
38	11.23	55.5	1125
39	12.48	52.0	1113
40	15.70	41.0	1100
41	17.32	37.0	1054
42	18.93	34.0	1041
(3/11/04)			
43	24.38	28.4	0923
44	27.70	24.5	0936
45	31.65	21.8	0947
46	38.30	17.2	0958

Exhibit 17.7d - Tabulation & Graph of WOI(AM) - Radial 85.0°T (part 1)



TABLE B-1 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (CST)</u>
47	45.23	13.3	1008
48	52.54	11.6	1020
49	60.60	7.70	1043
50	65.56	9.40	1111
51	72.28	7.70	1125
52	76.70	5.90	1137
53	84.75	4.60	1205
54	92.00	4.40	1222
55	97.72	3.50	1238
56	104.10	3.75	1303
57	113.73	3.45	1325
58	123.35	2.62	1334
59	132.20	3.02	1344
60	139.30	2.73	1352
61	147.00	2.42	1403
62	152.56	2.23	1414
63	161.90	1.48	1451
64	169.15	1.52	1505
65	174.85	1.45	1520
(2/16/04)			
66	181.20	1.69	1054
67	185.60	1.72	1112
68	190.80	1.43	1145
69	194.25	1.35	1222
70	198.60	1.00	1248
71	205.40	0.980	1305

**Exhibit 17.7d - Tabulation & Graph
of WOI(AM) - Radial 85.0°T (part 1)**

TABLE B-1 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (CST)</u>
72	207.80	0.900	1325
73	211.67	0.770	1348
74	215.78	0.900	1354
75	219.85	0.870	1402
76	223.00	0.830	1423
77	230.70	0.620	1449
78	234.40	0.540	1500
79	236.55	0.540	1511
80	239.25	0.450	1520
81	249.23	0.460	1636
(3/9/04)			
82	256.00	0.225	1545
83	259.50	0.188	1532
84	261.25	0.240	1524
85	263.70	0.168	1520
86	269.38	0.220	1512
87	273.00	0.200	1505
88	277.58	0.200	1452
89	289.15	0.215	0915
90	292.68	0.155	0933
91	297.50	0.152	0949
92	302.75	0.100	1009
93	303.65	0.110	1021
94	307.50	0.132	1111
95	308.60	0.125	1116
96	312.10	0.115	1132

Exhibit 17.7d - Tabulation & Graph of WOI(AM) - Radial 85.0°T (part 1)



TABLE B-1 (cont'd)

<u>Point</u>	<u>Radial Kilometers</u>	<u>Field Strength (mV/m)</u>	<u>Time (CST)</u>
97	314.10	0.135	1150
98	319.65	0.115	1210
99	326.10	0.122	1226
100	334.10	0.150	1251
101	339.00	0.140	1308
102	342.15	0.128	1317

All points measured by Dave Knippel using Potomac Instruments FIM-41, S/N 1879.

KILOMETERS FROM ANTENNA

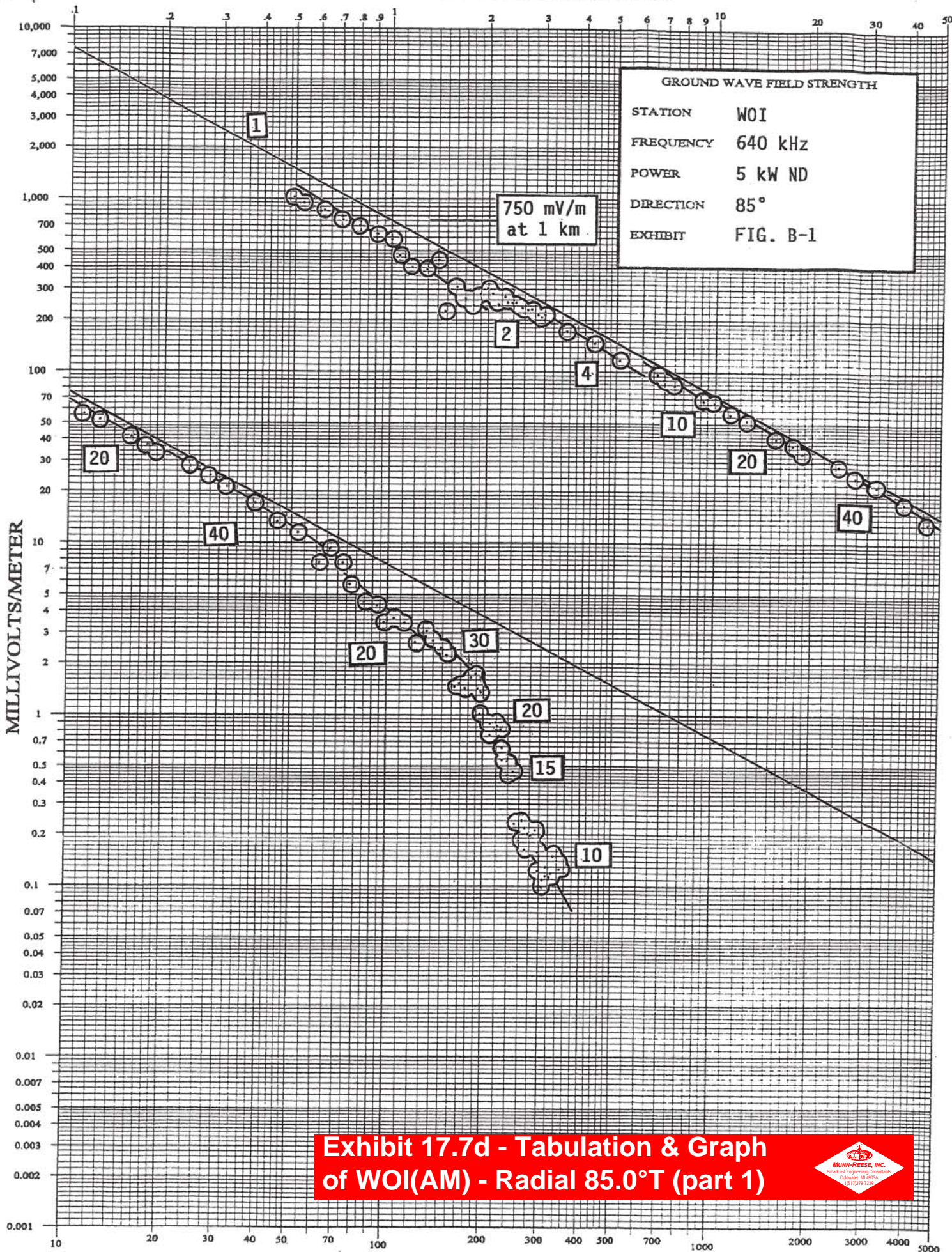


Exhibit 17.7d - Tabulation & Graph of WOI(AM) - Radial 85.0°T (part 1)



Exhibit 17.7e (part 2)

Tabulation of WOI(AM) – Radial 85.0°T

Call:	WOI(AM)	Frequency:	640 kHz	Engineer:	Larry Langford
City:	Ames	Bearing(°T):	065.0°T	Meter:	FIM-41 #2021
State:	Iowa	Power(kW):	5.0 kW	Calibration:	03/25/2011

Measurements for 85.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	325.00	201.95	0.060		7/18/2012	1303
2	330.00	205.05	0.060		7/18/2012	1247
3	340.00	211.27	0.060		7/18/2012	1230
4	355.00	220.59	0.050		7/18/2012	1157
5	360.00	223.69	0.050		7/18/2012	1150
6	365.00	226.80	0.040		7/18/2012	1140
7	370.00	229.91	0.035		7/18/2012	1120
8	376.00	233.64	0.035		7/18/2012	1105

Exhibit 17.7e (part 2) Graph of WOI(AM) - Radial 85.0°T

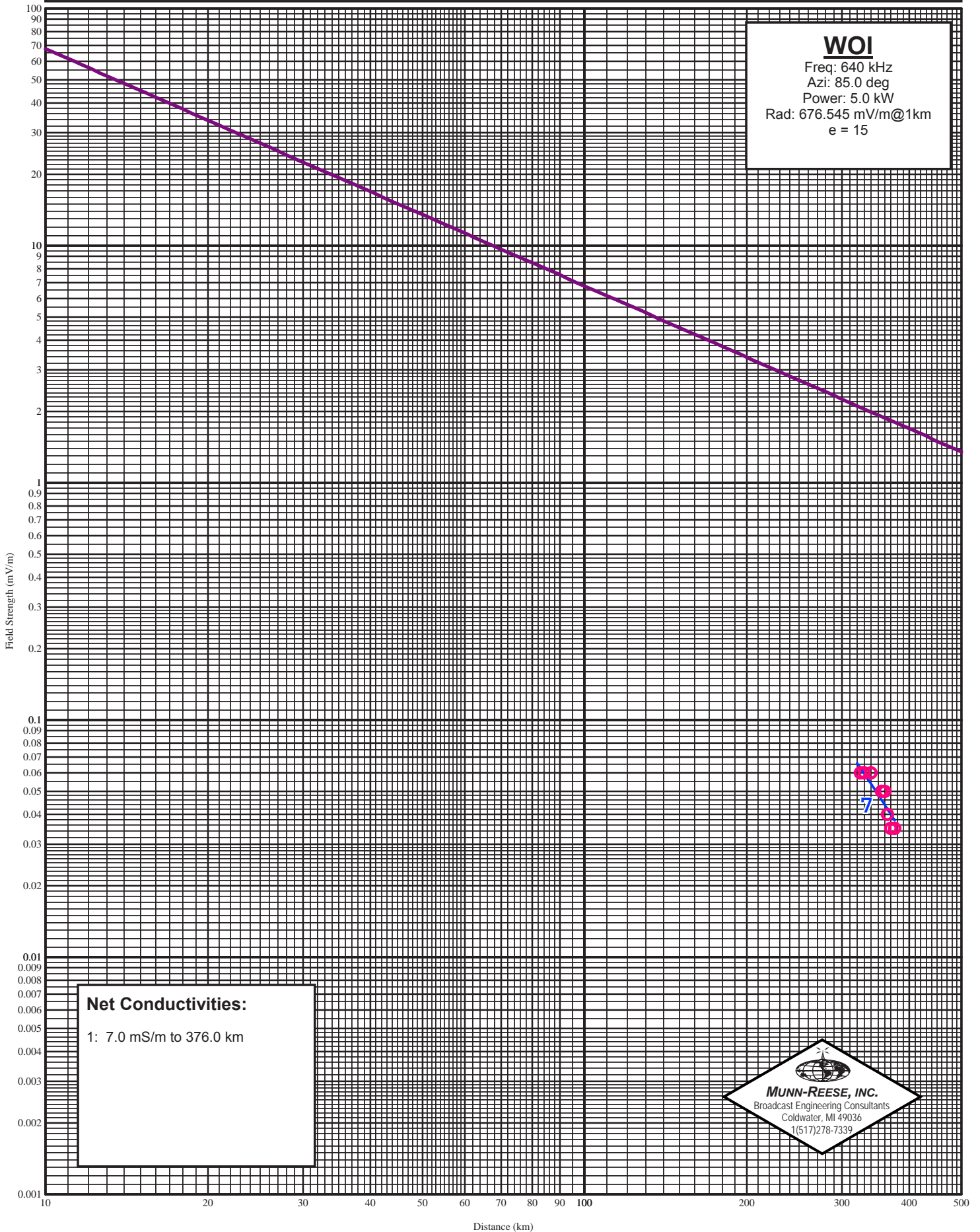


Exhibit 17.7f

Tabulation of WOI(AM) – Radial 105.0°T

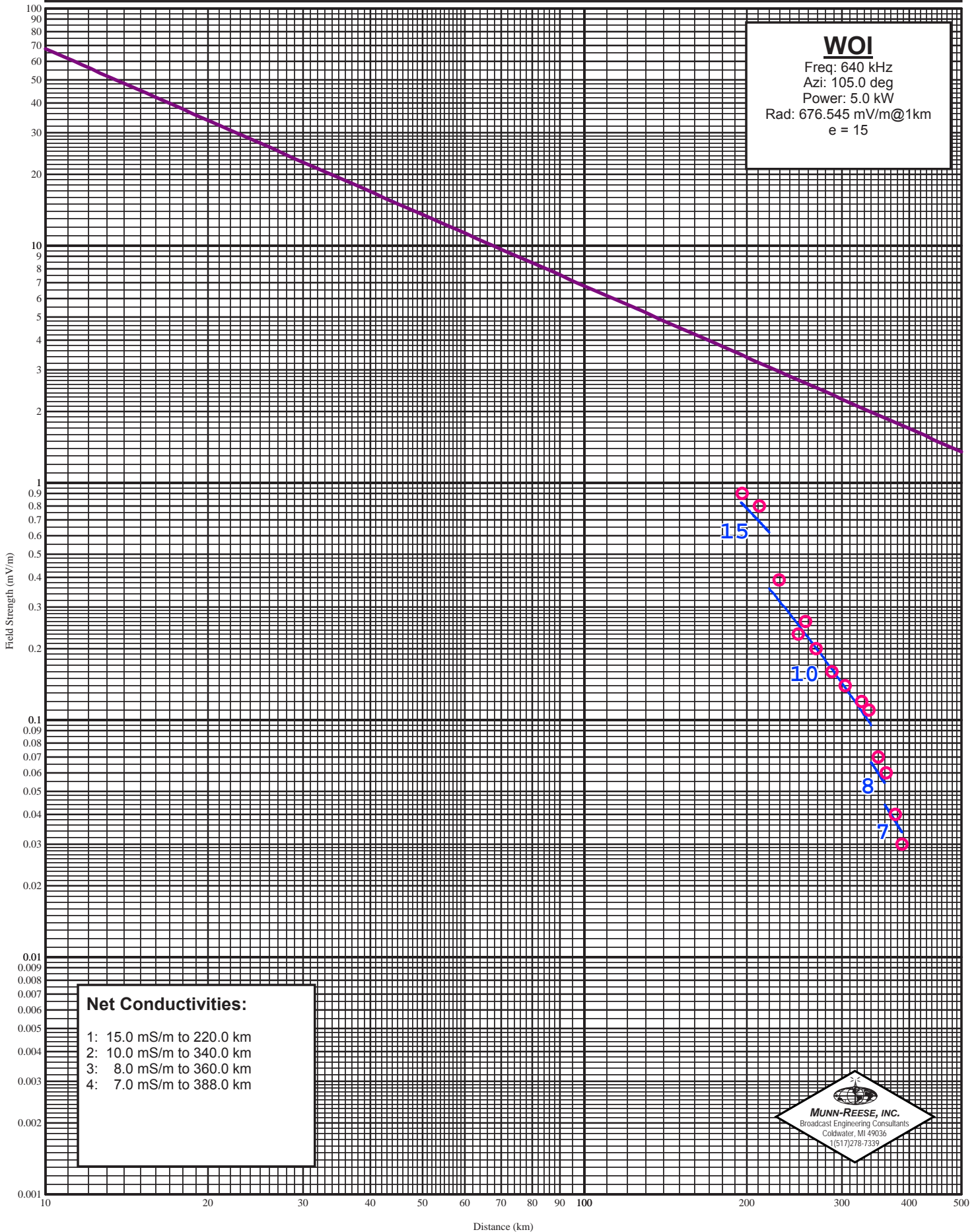
Call:	WOI(AM)	Frequency:	640 kHz	Engineer:	Larry Langford
City:	Ames	Bearing(°T):	065.0°T	Meter:	FIM-41 #1263
State:	Iowa	Power(kW):	5.0 kW	Calibration:	09/23/1999

Measurements for 105.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	196.00	121.79	0.900		7/7/2001	1325
2	210.75	130.95	0.800		7/7/2001	1351
3	229.50	142.60	0.390		7/7/2001	1423
4	249.00	154.72	0.230		7/7/2001	1452
5	257.00	159.69	0.260		7/7/2001	1514
6	269.00	167.15	0.200		7/7/2001	1538
7	288.00	178.95	0.160		7/7/2001	1620
8	304.00	188.90	0.140		7/7/2001	1643
9	327.00	203.19	0.120		7/7/2001	1730
10	337.00	209.40	0.110		7/7/2001	1745
11	350.00	217.48	0.070		7/7/2001	1804
12	363.00	225.56	0.060		7/7/2001	1823
13	377.00	234.26	0.040		7/7/2001	1847
14	388.00	241.09	0.030		7/7/2001	1901

Exhibit 17.7f

Graph of WOI(AM) - Radial 105.0°T



WSCR(AM) – Chicago, IL

Measurement Information

All measurements on WSCR(AM) – Chicago, IL were taken by Mr. Jon Marinkovic, an engineer in the employ of Birch Broadcasting Corporation. Mr. Marinkovic used Potomac Instruments FIM-41 Field Meter #1632 for all measurements taken. The Field Meter was last calibrated on January 21, 2010.

Exhibit 17.8a – Summary of measured Conductivities for WSCR(AM) – Chicago, IL

Exhibit 17.8b – Family of Curves for WSCR(AM) (670 kHz)

Exhibit 17.8c – Tabulation & Graph of Measurements for WSCR(AM) – 135.0°T

Exhibit 17.8d – Tabulation & Graph of Measurements for WSCR(AM) – 155.0°T

Exhibit 17.8e – Tabulation & Graph of Measurements for WSCR(AM) – 175.0°T

Exhibit 17.8a

Summary of Measured Conductivities for WSCR(AM) – Chicago, IL

<u>Azimuth (° True)</u>	<u>Measured Conductivity</u>	<u>Distance</u>
135.0°	10.0:	0.00 km to 30.0 km
	5.0:	30.0 km to 46.4 km
155.0°	3.0:	0.00 km to 2.40 km
	10.0:	2.40 km to 5.00 km
	6.0:	5.00 km to 30.0 km
	5.0:	30.0 km to 40.0 km
175.0°	5.0:	0.00 km to 42.3 km

Exhibit 17.8b

Family of Curves - WSCR(AM) - 670 kHz

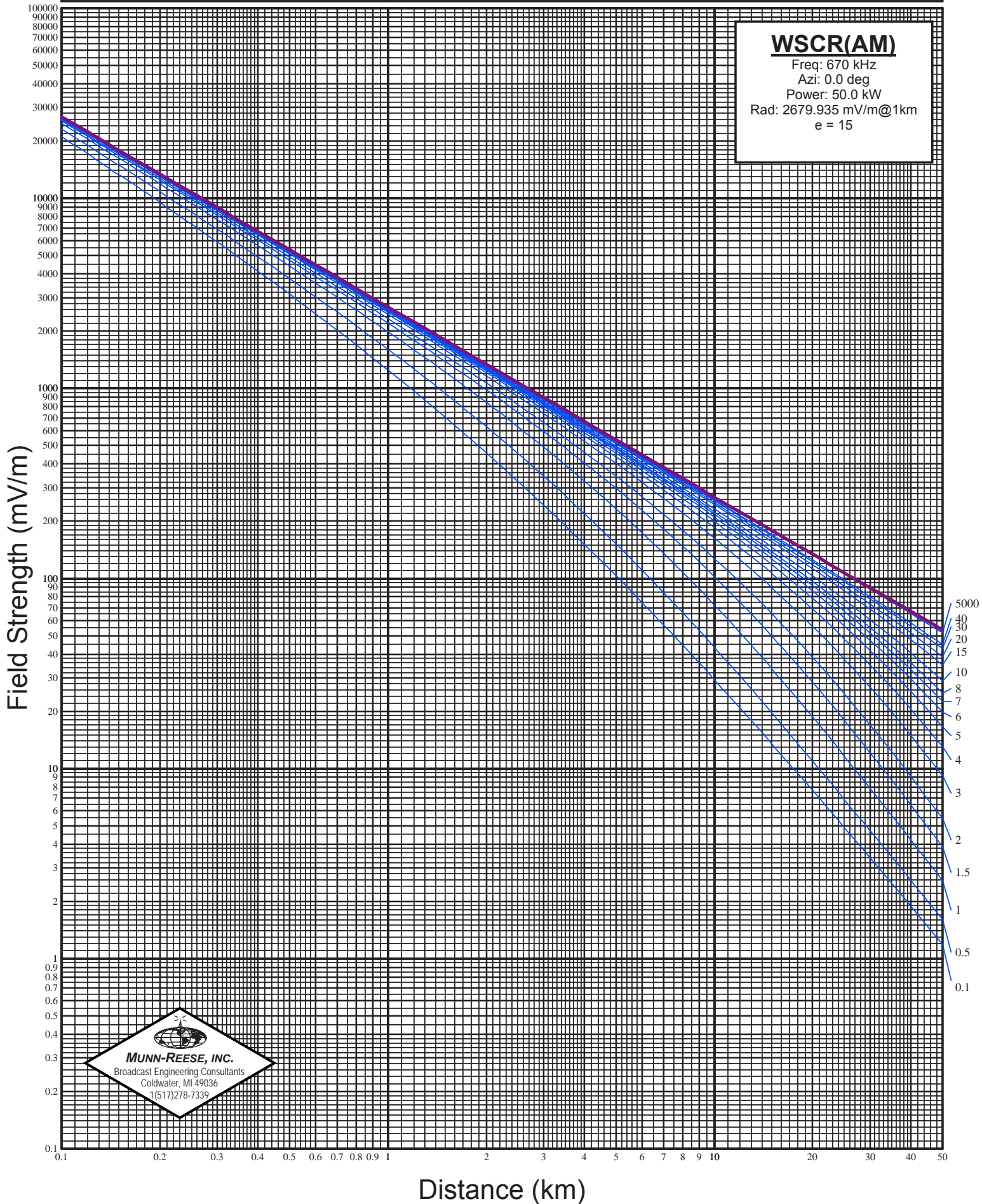


Exhibit 17.8c

Tabulation of WSCR(AM) – Radial 135.0°T

Call:	WSCR(AM)	Frequency:	670 kHz	Engineer:	Jon Marinkovic
City:	Chicago	Bearing(°T):	135.0°T	Meter:	FIM-41 #1632
State:	Illinois	Power(kW):	50.0 kW	Calibration:	1/21/2010

Measurements for 135.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	10.50	6.52	215.000		9/21/2010	1258
2	12.60	7.83	160.000		9/21/2010	1249
3	14.40	8.95	155.000		9/21/2010	1239
4	16.70	10.38	115.000		9/21/2010	1232
5	18.80	11.68	110.000		9/21/2010	1218
6	21.00	13.05	97.000		9/21/2010	1208
7	25.70	15.97	75.000		9/21/2010	1154
8	30.70	19.08	40.000		9/21/2010	1135
9	35.80	22.25	31.000		9/21/2010	1116
10	41.00	25.48	25.000		9/21/2010	1102
11	46.40	28.83	11.000		9/21/2010	1039

Exhibit 17.8c

Graph of WSCR(AM) - Radial 135.0°T

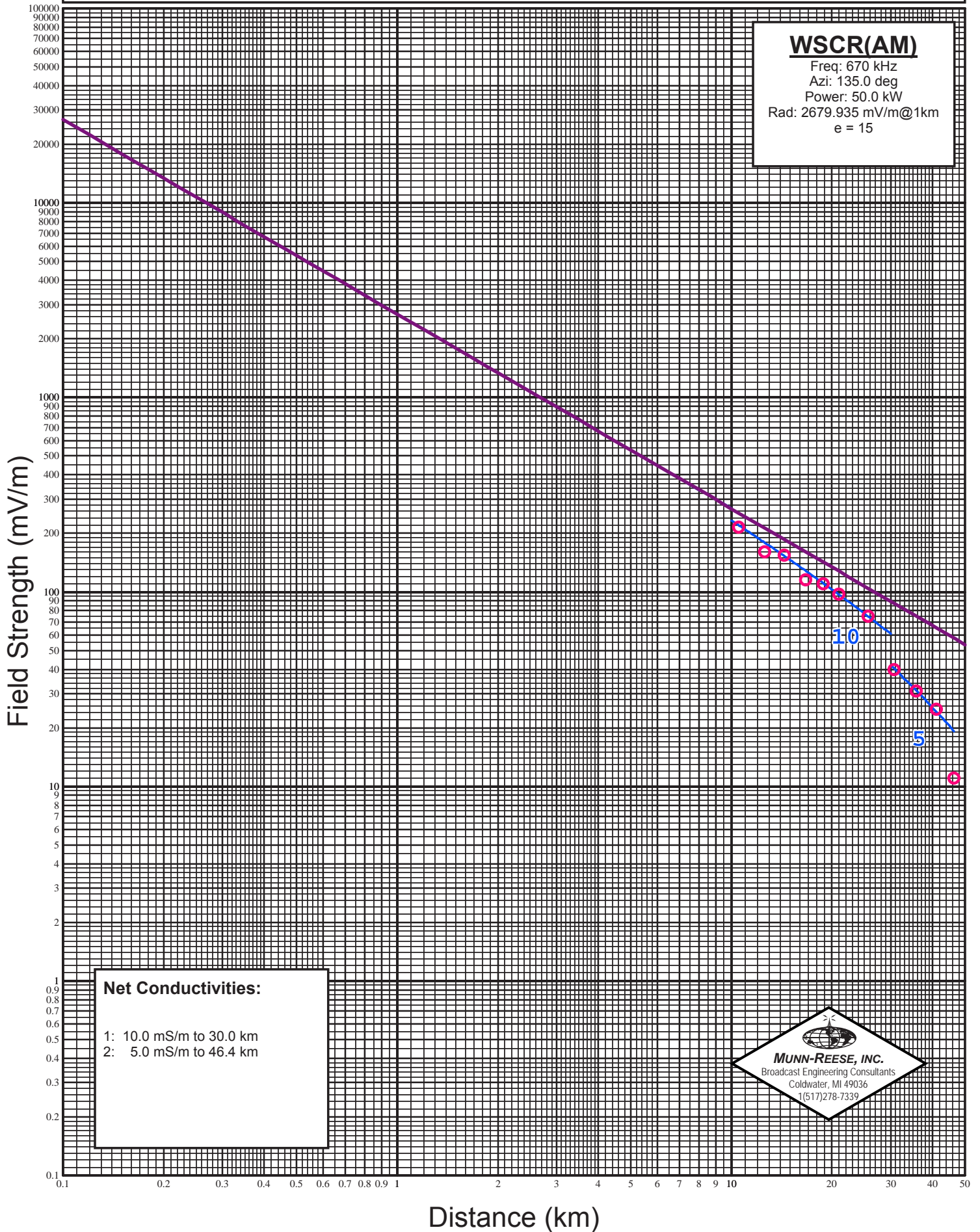


Exhibit 17.8d

Tabulation of WSCR(AM) – Radial 155.0°T

Call:	WSCR(AM)	Frequency:	670 kHz	Engineer:	Jon Marinkovic
City:	Chicago	Bearing(°T):	155.0°T	Meter:	FIM-41 #1632
State:	Illinois	Power(kW):	50.0 kW	Calibration:	1/21/2010

Measurements for 155.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	0.50	0.31	3900.000		9/17/2020	1006
2	0.70	0.43	3300.000		9/17/2020	1010
3	0.90	0.56	2600.000		9/17/2020	1015
4	1.00	0.62	2300.000		9/17/2020	1018
5	1.30	0.81	1900.000		9/17/2020	1022
6	1.50	0.93	1600.000		9/17/2020	1027
7	1.80	1.12	1500.000		9/17/2020	1030
8	2.20	1.37	900.000		9/17/2020	1034
9	2.40	1.49	1000.000		9/17/2020	1036
10	2.60	1.62	950.000		9/17/2020	1039
11	2.80	1.74	850.000		9/17/2020	1043
12	3.00	1.86	750.000		9/17/2020	1047
13	4.00	2.49	650.000		9/17/2020	1057
14	5.20	3.23	450.000		9/17/2020	1104
15	7.60	4.72	260.000		9/17/2020	1112
16	9.50	5.90	240.000		9/17/2020	1120
17	11.60	7.21	180.000		9/17/2020	1131
18	13.70	8.51	110.000		9/17/2020	1158
19	15.70	9.76	85.000		9/17/2020	1206
20	17.70	11.00	100.000		9/17/2020	1215
21	19.70	12.24	100.000		9/17/2020	1223
22	24.70	15.35	75.000		9/17/2020	1236
23	30.20	18.77	41.000		9/17/2020	1251
24	35.60	22.12	28.000		9/17/2020	1303
25	40.00	24.85	27.000		9/17/2020	1327

Exhibit 17.8d

Graph of WSCR(AM) - Radial 155.0°T

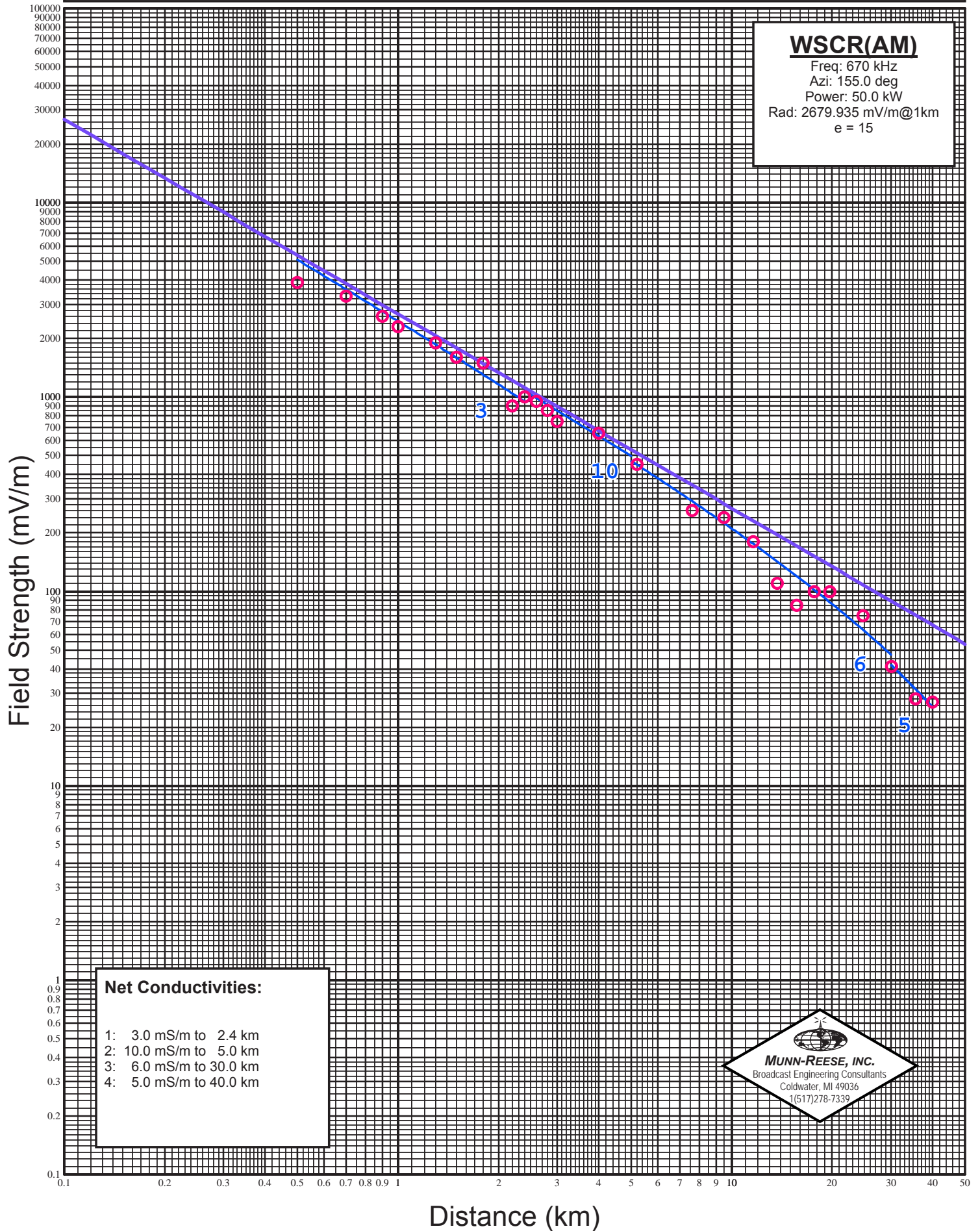


Exhibit 17.8e

Tabulation of WSCR(AM) – Radial 175.0°T

Call:	WSCR(AM)	Frequency:	670 kHz	Engineer:	Jon Marinkovic
City:	Chicago	Bearing(°T):	175.0°T	Meter:	FIM-41 #1632
State:	Illinois	Power(kW):	50.0 kW	Calibration:	1/21/2010

Measurements for 175.0 degrees.

Point Number	Distance (km) (mi)		Field (mV/m)	Notes	Date	Time
-----	-----	-----	-----	-----	-----	-----
1	10.10	6.28	170.000		9/21/2010	1339
2	12.10	7.52	135.000		9/21/2010	1321
3	14.10	8.76	100.000		9/21/2010	1330
4	17.30	10.75	95.000		9/21/2010	1339
5	22.40	13.92	75.000		9/21/2010	1350
6	27.40	17.03	55.000		9/21/2010	1406
7	32.60	20.26	46.000		9/21/2010	1425
8	37.50	23.30	29.000		9/21/2010	1442
9	39.00	24.23	25.000		9/21/2010	1510
10	42.30	26.28	22.000		9/21/2010	1459

Exhibit 17.8e Graph of WSCR(AM) - Radial 175.0°T

