

FIGURE 9A

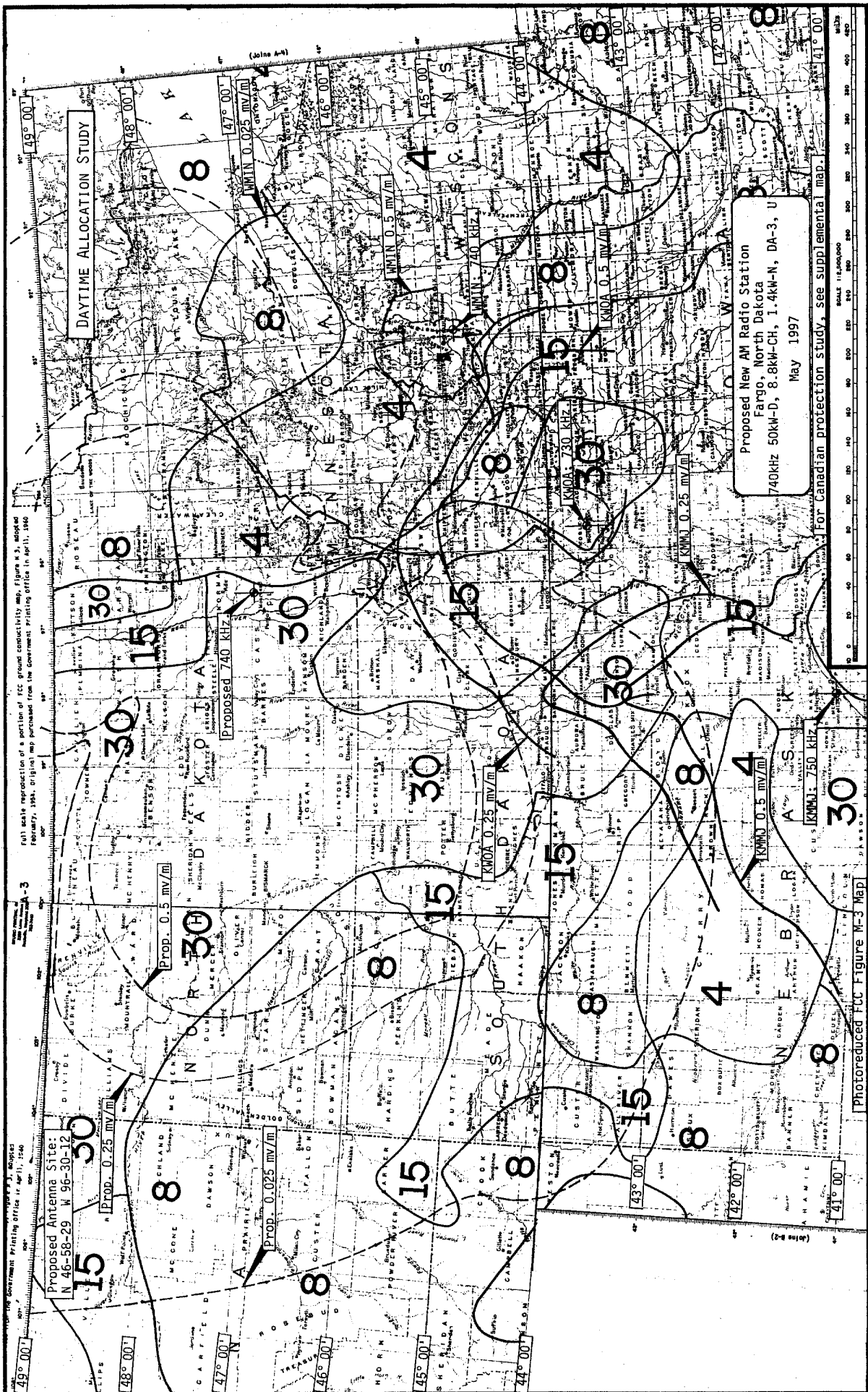


FIGURE 9B

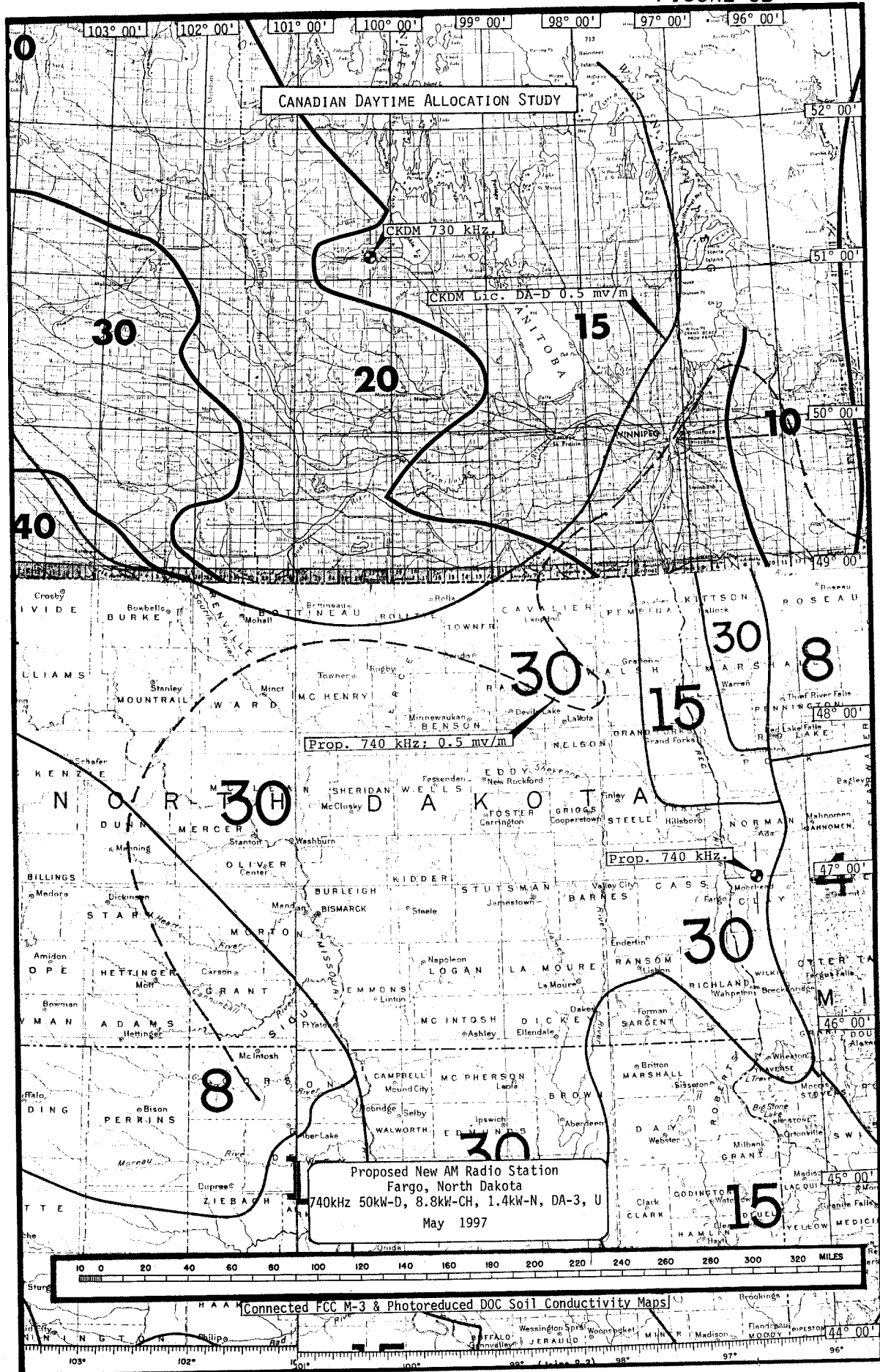


FIGURE 9B

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

Proposed New Station; Fargo, ND

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
0°T	2891.7	M-3: 30 - 53.1 km, 15 - 90.9 km, 30 - 223.2 km, 15 - 282.7 km, 10 - 340.0 km, 15 - 402.3 km, 10 - Rem.
10°T	3483.3	M-3: 30 - 53.6 km, 15 - 79.3 km, 4 - 84.7 km, 8 - 227.2 km, 10 - 501.6 km, 1 - 565.5 km, 10 - Remainder
20°T	3967.9	M-3: 30 - 56.5 km, 4 - 88.7 km, 8 - 238.7 km, 1 - Rem.
30°T	4304.8	M-3: 30 - 47.0 km, 4 - 98.8 km, 8 - 261.8 km, 1 - Rem.
40°T	4453.9	M-3: 30 - 34.0 km, 4 - 114.6 km, 8 - 250.3 km, 1 - Rem.
50°T	4369.2	M-3: 30 - 21.2 km, 4 - 143.1 km, 8 - 268.6 km, 1 - Rem.
60°T	4006.3	M-3: 30 - 15.9 km, 4 - 165.4 km, 8 - 331.5 km, 1 - Rem.
70°T	3349.0	M-3: 30 - 11.9 km, 4 - 177.0 km, 8 - 383.7 km, 1 - Rem.
80°T	2444.5	M-3: 30 - 11.3 km, 4 - 187.2 km, 8 - Remainder
90°T	1424.7	M-3: 30 - 10.0 km, 4 - 203.9 km, 8 - 511.1 km, 4 - Rem.
100°T	500.4	M-3: 30 - 9.7 km, 4 - 225.6 km, 8 - 371.8 km, 4 - Rem.
110°T	292.7	M-3: 30 - 9.7 km, 4 - 277.6 km, 8 - 306.6 km, 4 - Rem.
120°T	556.4	M-3: 30 - 9.8 km, 4 - 653.9 km, 8 - Remainder
130°T	505.0	M-3: 30 - 9.8 km, 4 - 403.8 km, 8 - 503.7 km, 4 - 670.0 km, 8 - Remainder
140°T	257.8	M-3: 30 - 11.6 km, 4 - 339.2 km, 15 - 479.4 km, 8 - Rem.
150°T	107.2	M-3: 30 - 13.4 km, 4 - 268.3 km, 8 - 374.5 km, 15 - 382.7 km, 30 - 418.3 km, 15 - Remainder
160°T	216.2	M-3: 30 - 17.7 km, 4 - 186.0 km, 15 - 276.6 km, 8 - 316.7 km, 30 - 487.6 km, 15 - Remainder
170°T	187.7	M-3: 30 - 149.2 km, 15 - 344.9 km, 30 - 405.4 km, 15 - 656.3 km, 30 - Remainder
180°T	100.6	M-3: 30 - 141.0 km, 15 - 416.7 km, 30 - 445.5 km, 15 - 636.0 km, 30 - Remainder
190°T	329.3	M-3: 30 - 119.7 km, 15 - 357.0 km, 30 - 463.5 km, 15 - 703.6 km, 15 - Remainder
200°T	634.6	M-3: 30 - 106.7 km, 15 - 310.3 km, 30 - 465.7 km, 15 - 495.4 km, 8 - 550.7 km, 4 - 608.2 km, 30 - Rem.
210°T	953.2	M-3: 30 - 98.5 km, 15 - 249.9 km, 30 - 442.6 km, 15 - 497.1 km, 8 - 556.8 km, 4 - 740.6 km, 15 - Rem.
220°T	1321.3	M-3: 30 - 96.6 km, 15 - 195.5 km, 30 - 394.1 km, 15 - 507.8 km, 8 - 556.5 km, 4 - 776.5 km, 8 - Rem.

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

Proposed New Station; Fargo, ND

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
230°T	1795.1	M-3: 30 - 98.2 km, 15 - 173.8 km, 30 - 408.6 km, 15 - 519.7 km, 8 - 661.3 km, 15 - 698.9 km, 8 - Rem.
240°T	2369.1	M-3: 30 - 345.7 km, 15 - 628.0 km, 8 - Remainder
250°T	2940.4	M-3: 30 - 329.6 km, 8 - 565.7 km, 15 - 644.2 km, 8 - Rem.
260°T	3342.1	M-3: 30 - 347.3 km, 8 - Remainder
270°T	3411.6	M-3: 30 - 397.2 km, 8 - Remainder
280°T	3065.6	M-3: 30 - 484.4 km, 8 - 753.2 km, 15 - Remainder
290°T	2350.2	M-3: 30 - 727.8 km, 15 - Remainder
300°T	1429.4	M-3: 30 - 473.5 km, 40 - 519.0 km, 30 - Remainder
310°T	509.5	M-3: 30 - 355.2 km, 20 - 481.5 km, 30 - Remainder
320°T	310.8	M-3: 30 - 67.3 km, 15 - 120.7 km, 30 - 292.9 km, 20 - Rem.
330°T	969.7	M-3: 30 - 61.3 km, 15 - 157.7 km, 30 - 258.0 km, 20 - 285.4 km, 15 - 398.7 km, 20 - 487.7 km, 15 - 555.7 km, 20 - Remainder
340°T	1597.4	M-3: 30 - 56.2 km, 15 - 370.1 km, 10 - 455.9 km, 15 - 475.2 km, 10 - 547.1 km, 10 - 547.1 km, 15 - 644.3 km, 10 - Remainder
350°T	2244.6	M-3: 30 - 53.1 km, 15 - 557.7 km, 10 - Remainder

Source of soil conductivity data; FCC Figure M-3 map or Canadian DOC soil conductivity maps for Canadian territory; significant Canadian fresh water bodies assigned conductivity values of 10 mS/m unless otherwise designated in compliance with DOC map instructions.

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

WMIN - Hudson, WI

740 kHz; 0.85 kW, DA-D

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
*185°T	96.4	Meas: 1.5 - 33.5 km; M-3: 4 - 40.1 km, 15 - Remainder
**192°T	76.2	Meas: 1.5 - 20.0 km, 2.5 - 26.1 km; M-3: 4 - 34.3 km, 15 - Remainder
195°T	66.4	Meas: 1.5 - 2.4 km, 2 - 23.6 km; M-3: 4 - 34.1 km, 15 - Rem.
**204°T	34.3	Meas: 1.5 - 2.4 km, 2 - 23.6 km; M-3: 4 - 33.2 km, 15 - Rem.
***210.5°T	18.8	Meas: 1 - 2.7 km, 1.5 - 19.3 km, 2 - 30.5 km; M-3: 4 - 32.2 km, 15 - 165.0 km, 30 - 264.6 km, 15 - Rem.
**216°T	33.0	Meas: 1.5 - 20.0 km, 2 - 28.85 km; M-3: 4 - 31.5 km, 15 - 142.1 km, 30 - 277.3 km, 15 - Remainder
226°T	81.8	Meas: 1.5 - 20.0 km, 2 - 28.85 km; M-3: 4 - 31.7 km, 15 - 143.2 km, 30 - 275.2 km, 15 - Remainder
**233.5°T	122.7	Meas: 1 - 3.0 km, 1.5 - 10.0 km, 2 - 21.75 km; M-3: 4 - 33.5 km, 15 - 108.0 km, 8 - 149.5 km, 30 - 275.2 km, 15 - Remainder
243.5°T	178.9	Meas: 1 - 3.0 km, 1.5 - 10.0 km, 2 - 21.75 km; M-3: 4 - 42.0 km, 15 - 103.3 km, 8 - 168.8 km, 30 - 273.9 km, 15 - 340.1 km, 30 - Remainder
**248.5°T	206.9	Meas: 2 - 10.0 km, 3 - 26.5 km; M-3: 4 - 100.4 km, 15 - 104.9 km, 8 - 182.3 km, 30 - 235.0 km, 15 - 344.6 km, 30 - Remainder
250°T	215.3	Meas: 1.5 - 1.6 km, 3 - 6.3 km, 2.5 - 24.5 km; M-3: 4 - 106.2 km, 8 - 187.3 km, 30 - 225.3 km, 15 - 354.5 km, 30 - Remainder
**260°T	269.1	Meas: 1.5 - 1.6 km, 3 - 6.3 km, 2.5 - 24.5 km; M-3: 4 - 120.4 km, 8 - 197.8 km, 15 - 386.4 km, 30 - Rem.
270°T	318.7	Meas: 1.5 - 1.6 km, 3 - 6.3 km, 2.5 - 24.5 km; M-3: 4 - 149.8 km, 8 - 189.4 km, 15 - 417.1 km, 30 - Rem.
275°T	341.4	M-3: 4 - 192.0 km, 15 - 409.9 km, 30 - Remainder
276.5°T	347.9	Meas: 1 - 3.0 km, 2 - 8.9 km, 3 - 30.7 km; M-3: 4 - 194.7 km, 15 - 408.3 km, 30 - Remainder
***286.5°T	387.3	Meas: 1 - 3.0 km, 2 - 8.9 km, 3 - 30.7 km; M-3: 4 - 232.6 km, 15 - 433.4 km, 30 - Remainder
296.5°T	419.6	Meas: 1 - 3.0 km, 2 - 8.9 km, 3 - 30.7 km; M-3: 4 - 277.9 km, 30 - Remainder

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

WMIN - Hudson, WI

740 kHz; 0.85 kW, DA-D

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
**300°T	429.1	Meas: 2 - 3.3 km, 3 - 20.1 km; M-3: 4 - 296.8 km, 30 - Rem.
302°T	434.2	Meas: 0.5 - 3.5 km, 2 - 32.1 km; M-3: 4 - 309.3 km, 30 - Remainder
*310°T	451.5	Meas: 0.5 - 3.5 km, 2 - 32.1 km; M-3: 4 - 350.4 km, 30 - Remainder
***312°T	455.1	Meas: 1 - 2.95 km, 2 - 10.5 km, 3 - 32.1 km; M-3: 4 - 356.6 km, 30 - Remainder
319°T	465.6	Meas: 1 - 2.95 km, 2 - 10.5 km, 3 - 32.1 km; M-3: 4 - 384.6 km, 15 - Remainder
**320°T	466.8	Meas: 3 - 5.2 km, 4 - 19.2 km; M-3: 4 - 401.2 km, 15 - 427.6 km, 30 - 447.7 km, 15 - Remainder
330°T	475.4	Meas: 3 - 5.2 km, 4 - 19.2 km; M-3: 4 - 374.5 km, 8 - Rem.
***338.4°T	477.6	Meas: 1 - 2.78 km, 3 - 11.5 km, 4 - 28.5 km, 5 - 33.4 km; M-3: 4 - 332.7 km, 8 - Remainder
348.4°T	474.5	Meas: 1 - 2.78 km, 3 - 11.5 km, 4 - 28.5 km, 5 - 33.4 km; M-3: 4 - 146.5 km, 8 - Remainder
350°T	473.3	Meas: 4 - 1.0 km, 1.5 - 1.4 km, 0.1 - 3.7 km, 1 - 28.35 km; M-3: 4 - 137.4 km, 8 - Remainder
** 0°T	462.6	Meas: 4 - 1.0 km, 1.5 - 1.4 km, 0.1 - 3.7 km, 1 - 28.35 km; M-3: 4 - 120.7 km, 8 - Remainder
*** 4°T	456.4	Meas: 1 - 2.8 km, 3 - 9.18 km, 4 - 26.9 km, 3 - 32.9 km; M-3: 4 - 120.4 km, 8 - Remainder
14°T	436.1	Meas: 1 - 2.8 km, 3 - 9.18 km, 4 - 26.9 km, 3 - 32.9 km; M-3: 4 - 131.8 km, 8 - Remainder
** 20°T	420.4	Meas: 2 - 8.0 km, 3 - 27.0 km; M-3: 4 - 145.5 km, 8 - Rem.
25°T	405.3	Meas: 1 - 2.84 km, 2 - 18.8 km, 3 - 31.1 km; M-3: 4 - 164.6 km, 8 - Remainder
*** 30.5°T	386.6	Meas: 1 - 2.84 km, 2 - 18.8 km, 3 - 31.1 km; M-3: 4 - 193.4 km, 8 - Remainder
35°T	369.7	Meas: 1 - 3.1 km, 2.5 - 33.1 km; M-3: 4 - 229.7 km, 8 - Rem.
* 40°T	349.2	Meas: 1 - 3.1 km, 2.5 - 33.1 km; M-3: 4 - 261.7 km, 8 - Rem.
50°T	303.4	Meas: 3 - 10.5 km, 1.5 - 21.4 km; M-3: 4 - 347.1 km, 8 - Remainder

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

WMIN - Hudson, WI

740 kHz; 0.85 kW, DA-D

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
** 60°T	252.3	Meas: 3 - 10.5 km, 1.5 - 21.4 km; M-3: 4 - Remainder
** 68.5°T	205.8	Meas: 3 - 3.0 km, 2 - 22.3 km; M-3: 4 - Remainder

\* Measured radial; source is WCTS (formerly WMIN), Maplewood, MN (1030 kHz.)  
March 1986 antenna proof-of-performance and June 1986 amendment thereto.  
(WMIN, 740 kHz, and WCTS are co-located.)

\*\* Measured radial; source is WCTS (formerly WMIN), Maplewood, MN (1030 kHz.)  
April 1988 antenna proof-of-performance and September 1988 supplement thereto,  
implementing construction permit BP-870130AG. (WCTS and WMIN are co-located.)

\*\*\* Measured radial; source is WMIN (740 kHz.) August 1995 antenna proof-of-  
performance to implement construction permit BP-940524AC.

FIGURE 10C

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

KWOA - Worthington, MN

730 kHz; 1 kW-D, 158 w-N, U

Inverse Field (Daytime): 352.4 mv/m/km

<u>Azimuth</u>	<u>Soil Conductivity (mS/m)</u>
250°T	M-3: 30 - 21.1 km, 15 - 81.1 km, 30 - 220.2 km, 15 - 256.7 km, 8 - 343.0 km, 4 - Remainder
260°T	M-3: 30 - 26.2 km, 15 - 83.9 km, 30 - 253.8 km, 15 - 319.9 km, 8 - Rem.
270°T	M-3: 30 - 27.0 km, 15 - 90.5 km, 30 - 292.6 km, 15 - Remainder
280°T	M-3: 30 - 26.9 km, 15 - 131.2 km, 30 - 293.4 km, 15 - Remainder
290°T	M-3: 30 - 25.8 km, 15 - 164.3 km, 30 - Remainder
300°T	M-3: 30 - 24.5 km, 15 - 220.3 km, 30 - Remainder
310°T	M-3: 30 - 24.0 km, 15 - 248.8 km, 30 - Remainder
320°T	M-3: 30 - 24.3 km, 15 - 297.3 km, 30 - Remainder
330°T	M-3: 30 - 27.8 km, 15 - 347.1 km, 30 - Remainder
340°T	M-3: 30 - 30.9 km, 15 - 286.6 km, 30 - Remainder
350°T	M-3: 30 - 36.5 km, 15 - 227.9 km, 30 - Remainder
0°T	M-3: 30 - 42.2 km, 15 - 195.2 km, 4 - Remainder
10°T	M-3: 30 - 57.3 km, 15 - 156.9 km, 4 - Remainder
20°T	M-3: 30 - 85.5 km, 8 - 156.4 km, 4 - Remainder
30°T	M-3: 30 - 86.6 km, 8 - 155.5 km, 4 - Remainder
40°T	M-3: 30 - 88.5 km, 8 - 155.6 km, 4 - Remainder
50°T	M-3: 30 - 95.8 km, 8 - 158.0 km, 4 - Remainder
60°T	M-3: 30 - 106.9 km, 8 - 153.5 km, 15 - 233.2 km, 4 - Remainder
70°T	M-3: 30 - 123.8 km, 15 - 245.9 km, 8 - 360.5 km, 4 - Remainder
80°T	M-3: 30 - 142.6 km, 15 - 242.9 km, 8 - 323.5 km, 4 - Remainder
90°T	M-3: 30 - 140.0 km, 15 - 241.4 km, 8 - 321.7 km, 4 - Remainder
100°T	M-3: 30 - 136.8 km, 15 - 250.4 km, 8 - 335.9 km, 4 - Remainder



TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

CKDM - Dauphin, MB;

730 kHz; 10 kW-D, 5 kW-N, DA-N

Inverse Field (Daytime): 946.2 mv/m/km

<u>Azimuth</u>	<u>Soil Conductivity (mS/m)</u>
40°T	M-3: 15 - 27.4 km, 10 - 36.5 km, 15 - 68.2 km, 10 - 84.0 km, 15 - 179.1 km, 10 - Remainder
50°T	M-3: 15 - 27.4 km, 10 - 35.9 km, 15 - 59.2 km, 10 - 64.2 km, 15 - 74.8 km, 10 - 82.4 km, 15 - 90.1 km, 10 - 94.3 km, 15 - 180.2 km, 10 - Remainder
60°T	M-3: 15 - 24.8 km, 10 - 34.9 km, 15 - 81.3 km, 10 - 91.4 km, 15 - 96.6 km, 10 - 107.8 km, 15 - 170.1 km, 10 - 189.9 km, 15 - 209.2 km, 10 - Remainder
70°T	M-3: 15 - 24.8 km, 10 - 37.0 km, 15 - 79.0 km, 10 - 88.5 km, 15 - 93.3 km, 10 - 103.0 km, 15 - 116.2 km, 10 - 126.0 km, 15 - 214.0 km, 10 - 383.2 km, 1 - Remainder
80°T	M-3: 15 - 24.1 km, 10 - 39.4 km, 15 - 78.1 km, 10 - 99.5 km, 15 - 202.0 km, 10 - 212.1 km, 15 - 397.5 km, 10 - 335.1 km, 1 - Rem.
90°T	M-3: 15 - 24.0 km, 10 - 42.2 km, 15 - 89.3 km, 10 - 105.7 km, 15 - 232.4 km, 10 - 344.4 km, 1 - Remainder
100°T	M-3: 15 - 25.7 km, 10 - 38.3 km, 15 - 84.8 km, 10 - 88.8 km, 15 - 93.0 km, 10 - 97.7 km, 15 - 112.7 km, 10 - 118.3 km, 15 - 226.6 km, 10 - 354.1 km, 1 - Remainder
110°T	M-3: 15 - 97.2 km, 10 - 141.3 km, 15 - 282.0 km, 10 - 378.5 km, 1 - Rem.
120°T	M-3: 15 - 125.9 km, 10 - 181.1 km, 15 - 308.2 km, 10 - 412.8 km, 1 - 426.2 km, 8 - 470.1 km, 1 - 518.7 km, 8 - Remainder
130°T	M-3: 15 - 146.6 km, 10 - 170.1 km, 15 - 365.0 km, 30 - 372.4 km, 8 - Rem.
140°T	M-3: 15 - 67.6 km, 20 - 129.9 km, 15 - 399.4 km, 30 - 462.7 km, 8 - 480.7 km, 4 - Remainder
150°T	M-3: 15 - 50.4 km, 20 - 137.8 km, 15 - 242.4 km, 20 - 274.4 km, 30 - 411.8 km, 15 - 465.8 km, 30 - Remainder
160°T	M-3: 15 - 43.1 km, 20 - 141.3 km, 15 - 206.0 km, 20 - 254.1 km, 30 - Remainder
170°T	M-3: 15 - 38.3 km, 20 - 157.4 km, 15 - 193.0 km, 20 - 241.9 km, 30 - Remainder
180°T	M-3: 15 - 36.5 km, 20 - 238.2 km, 30 - Remainder
190°T	M-3: 15 - 35.4 km, 20 - 241.7 km, 30 - 493.9 km, 8 - Remainder
200°T	M-3: 15 - 34.6 km, 20 - 241.2 km, 30 - 434.6 km, 8 - Remainder

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

CKDM - Dauphin. MB

730 kHz; 10 kW-D, 5 kW-N, DA-N  
Inverse Field (Daytime): 946.2 mv/m/km

<u>Azimuth</u>	<u>Soil Conductivity (mS/m)</u>
210°T	M-3: 15 - 35.6 km, 20 - 254.8 km, 30 - 268.8 km, 40 - 273.3 km, 30 - 425.4 km, 8 - Remainder
220°T	M-3: 15 - 37.7 km, 20 - 153.0 km, 30 - 271.2 km, 40 - 305.5 km, 30 - 434.3 km, 8 - Remainder
230°T	M-3: 15 - 40.6 km, 20 - 154.2 km, 30 - 273.9 km, 40 - 357.3 km, 30 - 467.2 km, 15 - 523.5 km, 8 - Remainder
240°T	M-3: 15 - 40.9 km, 20 - 154.5 km, 30 - 305.9 km, 40 - 341.3 km, 15 - Remainder
250°T	M-3: 15 - 41.0 km, 20 - 133.3 km, 30 - Remainder
260°T	M-3: 15 - 39.9 km, 20 - 133.1 km, 30 - Remainder

Soil conductivity values derived from FCC Figure M-3 or Canadian DOC soil conductivity maps for Canadian territory.

Significant fresh water bodies over Canada assigned conductivity values of 10 mS/m unless otherwise designated in compliance with DOC map instructions.

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

KMMJ - Grand Island, NE

750 kHz; 10 kW, DA-D

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
260°T	1560.80	Meas: 6 - 32.2 km; M-3: 15 - 37.5 km, 30 - 240.3 km, 15 - Rem.
*270°T	1560.80	Meas: 6 - 32.2 km; M-3: 15 - 35.6 km, 30 - 233.7 km, 15 - 333.6 km, 8 - Remainder
280°T	1555.38	Meas: 6 - 32.2 km; M-3: 15 - 36.9 km, 30 - 199.2 km, 4 - 406.8 km, 8 - Remainder
290°T	1542.17	M-3: 15 - 39.1 km, 30 - 172.2 km, 4 - 412.0 km, 8 - Rem.
300°T	1516.81	M-3: 15 - 42.2 km, 30 - 149.7 km, 4 - 423.3 km, 8 - 466.4 km, 15 - Remainder
310°T	1473.85	Meas: 8 - 32.2 km; M-3: 15 - 48.3 km, 30 - 117.3 km, 4 - 249.6 km, 8 - Remainder
*320°T	1407.88	Meas: 8 - 32.2 km; M-3: 15 - 57.9 km, 30 - 92.1 km, 4 - 188.6 km, 8 - 339.6 km, 15 - Remainder
330°T	1314.85	Meas: 8 - 32.2 km; M-3: 15 - 76.0 km, 4 - 151.3 km, 8 - 237.7 km, 15 - Remainder
340°T	1193.28	M-3: 15 - 77.9 km, 4 - 130.2 km, 8 - 199.4 km, 15 - 262.2 km, 30 - 324.8 km, 15 - 360.8 km, 30 - Rem.
350°T	1045.06	M-3: 15 - 86.9 km, 4 - 118.0 km, 15 - 131.8 km, 8 - 172.2 km, 15 - 211.0 km, 30 - Remainder
0°T	875.64	Meas: 8 - 32.2 km; M-3: 15 - 182.3 km, 30 - 370.0 km, 15 - Remainder
* 10°T	693.60	Meas: 8 - 32.2 km; M-3: 15 - 196.3 km, 30 - 304.0 km, 15 - Remainder
20°T	509.67	Meas: 8 - 32.2 km; M-3: 15 - 207.3 km, 30 - 286.1 km, 15 - Remainder
30°T	336.20	M-3: 15 - 315.8 km, 30 - 416.0 km, 8 - Remainder
40°T	189.45	M-3: 15 - 305.9 km, 30 - 428.1 km, 8 - Remainder
41°T	177.32	Meas: 8 - 32.2 km; M-3: 15 - 306.3 km, 30 - 429.4 km, 8 - Remainder
* 51°T	108.34	Meas: 8 - 32.2 km; M-3: 15 - 305.5 km, 30 - 404.1 km, 15 - Remainder
61°T	146.61	Meas: 8 - 32.2 km; M-3: 15 - Remainder
70°T	195.91	M-3: 15 - 22.9 km, 30 - 90.0 km, 15 - Remainder
75°T	215.60	Meas: 20 - 32.2 km; M-3: 30 - 101.2 km, 15 - Remainder

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

KMMJ - Grand Island, NE 750 kHz; 10 kW, DA-D

<u>Azimuth</u>	<u>Inverse Field</u> mv/m/km	<u>Soil Conductivity (mS/m)</u>
* 85°T	243.01	Meas: 20 - 32.2 km; M-3: 30 - 123.0 km, 15 - Remainder
95°T	215.60	Meas: 20 - 32.2 km; M-3: 30 - 147.7 km, 15 - 192.5 km, 30 - 251.4 km, 15 - Remainder
105°T	169.98	M-3: 15 - 10.8 km, 30 - 145.2 km, 15 - 191.5 km, 30 - 254.9 km, 15 - Remainder

\* Measured radial; source is KMMJ April 1958 antenna proof-of-performance to implement licensed facility; data on file.

TABLE OF AZIMUTHS, INVERSE FIELDS AND SOIL CONDUCTIVITIES

CBL - Toronto, ON;

740 kHz; 50 kW, ND-U

Inverse Field: 2634.4 mv/m/km @ 50 kW.

<u>Azimuth</u>	<u>Soil Conductivity (mS/m)</u>
270°T	M-3: 5 - 54.1 km, 10 - 110.1 km, 15 - 149.8 km, 10 - Remainder
280°T	M-3: 5 - 56.0 km, 10 - 114.3 km, 15 - 153.0 km, 10 - Remainder
290°T	M-3: 5 - 26.1 km, 10 - 32.2 km, 8 - 48.8 km, 5 - 63.7 km, 10 - 99.3 km, 5 - 127.1 km, 15 - 162.5 km, 10 - Remainder
300°T	M-3: 5 - 20.9 km, 10 - 32.0 km, 8 - 54.9 km, 5 - 152.4 km, 15 - 161.3 km, 10 - 223.4 km, 8 - Remainder
310°T	M-3: 5 - 17.7 km, 10 - 32.0 km, 8 - 56.2 km, 5 - 159.5 km, 10 - 262.3 km, 8 - Remainder
315°T	M-3: 5 - 16.1 km, 10 - 32.2 km, 8 - 57.0 km, 5 - 130.7 km, 4 - 162.5 km, 10 - 363.7 km, 4 - 371.8 km, 10 - 434.7 km, 1 - Rem.
320°T	M-3: 5 - 15.9 km, 10 - 31.7 km, 8 - 57.9 km, 5 - 117.6 km, 4 - 183.8 km, 10 - 310.6 km, 4 - 347.6 km, 10 - 380.4 km, 1 - Rem.
330°T	M-3: 5 - 14.5 km, 10 - 32.3 km, 8 - 61.6 km, 5 - 104.6 km, 4 - 145.2 km, 10 - 278.3 km, 4 - 294.5 km, 10 - 308.8 km, 2 - 316.9 km, 10 - 321.9 km, 2 - 352.6 km, 1 - Remainder
340°T	M-3: 5 - 13.8 km, 10 - 35.1 km, 8 - 65.5 km, 5 - 100.1 km, 4 - 112.5 km, 10 - 278.7 km, 1 - 338.3 km, 2 - 437.6 km, 1 - Rem.
350°T	M-3: 5 - 14.3 km, 10 - 37.0 km, 8 - 70.7 km, 5 - 101.2 km, 4 - 102.8 km, 10 - 199.9 km, 1 - 329.6 km, 2 - 411.7 km, 1 - Rem.
360°T	M-3: 5 - 14.5 km, 10 - 42.2 km, 8 - 77.7 km, 5 - 123.4 km, 4 - 175.4 km, 1 - 302.7 km, 2 - 392.8 km, 1 - Remainder

Source of soil conductivity data: FCC Figure M-3 or DOC Soil conductivity maps for Canadian territory.