

EXHIBIT 14
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DAYTIME GROUNDWAVE INTERFERENCE STUDY

Cornerstone Church, Inc.
Rossford, OH

Nine stations enter into the daytime groundwave interference study:

WLGC	Greenup, KY	1520 kHz
WMLM	St. Louis, MI	1520 kHz
WWKB	Rochester, NY	1520 kHz
WQCT	Bryan, OH	1520 kHz
WINW	Canton, OH	1520 kHz
WJMP	Kent, OH	1520 kHz
WJKN	Jackson, MI	1510 kHz
WVAC	Norwalk, OH	1510 kHz
WLQV	Detroit, MI	1500 kHz

Tables 14.0 through 14.8 present the tabulations of the normally protected contours for each of these stations. Measured conductivity data, extracted from the FCC's files, was used in projecting the contours for these stations whenever such measured conductivity data was found to be available. Additional field strength measurements were also conducted on WJKN. Copies of the measured conductivity data for these stations are contained in Appendices A through G of this exhibit. The measured conductivity data for each station was supplemented with conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map in the areas where the measured values were not applicable. For stations where there was no measured conductivity data available, the normally protected contours were projected using theoretical conductivity data from FCC Figure M3 and the Canadian Conductivity Map. It should be noted that WLGC and WLQV each hold a construction permit to modify their daytime facilities. The WLGC construction permit reflects a correction to the geographic coordinates for the existing WLGC transmitter site. The WLQV construction permit reflects a modification to the station's licensed daytime facilities to reduce the electrical height of each of the

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nine towers used for the present daytime directional pattern with no changes to the other electrical parameters, physical geometry, or location of this antenna system. The WLQV construction permit also specifies corrected geographic coordinates for the center of this array. Since the daytime contours for the WLCG and WLQV construction permit facilities are essentially identical to the daytime contours for the licensed facilities for both of these stations, providing the required protection to the licensed facilities of these stations will also provide the required protection to the facilities authorized by each station's construction permit.

Table 14.9 lists the WDMN proposed daytime contours. Since the proposed WDMN transmitter site lies within two miles of the transmitter site of WJYM - Bowling Green, Ohio (730 kHz), FCC policy permits the use of conductivity data extracted from the WJYM 1961 full proof of performance (BL-8105) in the projection of the proposed WDMN daytime contours. It should be noted that additional field strength measurements were also conducted on WJYM. This additional measured conductivity data was also used in the projection of the proposed WDMN daytime contours. This measured conductivity data was supplemented with theoretical conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map. Copies of the measured conductivity data for WJYM are contained in Appendices H and I of this exhibit.

Figure 14.0 presents, on an M3 map base, the 25 mV/m, 5 mV/m, 0.5 mV/m, 0.25 mV/m, 0.025 mV/m, and 0.005 mV/m contours for the proposed WDMN daytime facilities in relation to the normally protected contours for each of the above stations. As

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can be seen from this figure, prohibited groundwave contour overlap will exist between the proposed WDMN daytime facilities and two of these stations:

WQCT	Bryan, OH	1520 kHz
WJMP	Kent, OH	1520 kHz

Since prohibited overlap presently exists between WDMN and both of these stations, detailed allocation studies were conducted to verify that the proposed facilities will reduce the areas of overlap with each of these stations. Table 14.10 tabulates the 0.5 mV/m and 0.025 mV/m contours for the presently licensed WDMN daytime facilities. These contours were projected using measured conductivity values extracted from the WDMN 1967 daytime full proof of performance (BL-11,577), supplemented with theoretical conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map. Copies of the measured conductivity data for the WDMN licensed daytime facilities is contained in Appendix J of this exhibit. Figure 14.1 presents a detailed allocation study showing the WDMN present and proposed 0.5 mV/m and 0.025 mV/m contours in relation to the respective contours of WQCT. As shown by this figure, the proposed WDMN daytime facilities will reduce the area of overlap that presently exists between its 0.025 mV/m contour and the 0.5 mV/m contour of WQCT from 187.1 square kilometers to 154.8 square kilometers. This figure also shows that the proposed WDMN daytime facilities will reduce the area of overlap that presently exists between its 0.5 mV/m contour and the 0.025 mV/m contour of WQCT from 4569.5 square kilometers to 4377.4 square kilometers. Thus, the proposed WDMN daytime facilities will provide the required protection to WQCT.

Figure 14.2 depicts the WDMN present and proposed 0.5 mV/m contours in relation to the 0.025 mV/m contour for WJMP. This figure shows that the proposed WDMN

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daytime facilities will reduce this area of overlap from 987.1 square kilometers to 25.8 square kilometers. Thus, the proposed WDMN facilities will provide the required protection to WJMP.

Finally, as shown in Figure 14.0, the proposed WDMN daytime facilities will provide the required groundwave protection to all other stations requiring consideration.

TABLE 14.0

NORMALLY PROTECTED CONTOURS

WLGC - Greenup, KY
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
270	825.1	2/67.5,8	37.78	166.64
275	825.1	2/67.2,8	37.78	166.81
280	825.1	2/67.4,8	37.78	166.70
285	825.1	2/67.4,8	37.78	166.73
290	825.1	2/67.6,8	37.78	166.59
295	825.1	2/68.4,8	37.78	166.17
300	825.1	2/69.8,8	37.78	165.46
305	825.1	2/71.7,8	37.78	164.42
310	825.1	2/74.1,8	37.78	163.20
315	825.1	2/76.3,8	37.78	162.08
320	825.1	2/79.2,8	37.78	160.63
325	825.1	2/81.6,8	37.78	159.50
330	825.1	2/83.5,8	37.78	158.57
335	825.1	2/85.4,8	37.78	157.68
340	825.1	2/86.4,8	37.78	157.23
345	825.1	2/86.2,8	37.78	157.31
350	825.1	2/86.4,8	37.78	157.23
355	825.1	2/87.3,8	37.78	156.84
0	825.1	2/88.8,8	37.78	156.13
5	825.1	2/92.2,8	37.78	154.63
10	825.1	2/96.9,8	37.78	152.62
15	825.1	2/103.7,8	37.78	149.88
20	825.1	2/114.1,8	37.78	146.03

TABLE 14.0 (cont'd)

<u>Azimuth</u> <u>(Degrees)</u>	<u>Radiation</u> <u>(mV/m at 1 km)</u>	<u>Conductivities</u> <u>(mmhos/m/ending distance (km))</u>	<u>0.5 mV/m</u> <u>Contour</u> <u>(km)</u>	<u>0.025 mV/m</u> <u>Contour</u> <u>(km)</u>
25	825.1	2/126.5,8	37.78	141.55
30	825.1	2/127.2,8	37.78	139.86
35	825.1	2	37.78	139.18
40	825.1	2	37.78	138.27
45	825.1	2	37.78	138.27
50	825.1	2	37.78	138.27
55	825.1	2	37.78	138.27
60	825.1	2	37.78	138.27

All conductivity data extracted from FCC Figure M3.

TABLE 14.1

NORMALLY PROTECTED CONTOURS

WMLM - ST. LOUIS, MI
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
50	263.6	8	43.29	147.85
55	197.1	8	38.29	132.64
60	138.8	8	32.99	115.75
65	90.4	8	27.43	97.40
70	53.7	6*	18.45	---
		7*/32.9,8	---	75.86
75	31.5	10* } } avg. 6* }	16.10	---
		7*/32.9,8	---	60.08
80	26.9	10* } } avg. 6* }	16.90	---
		6*/32.7,8	---	52.91
85	30.5	15*/35.3,8	23.00	72.32
90	32.5	15*/35.3,8	23.80	74.00
95	30.9	15*/35.3,8	23.13	72.60
100	26.3	15*/35.3,8	21.17	68.49
105	20.4	10*	15.13	---
		5*/29.6,8	---	43.38
110	15.8	10*	13.10	---
		5*/29.6,8	---	38.02
115	15.2	10*	12.83	---
		6*/35,8	---	40.01
120	18.5	10*	14.32	---
		6*/35,8	---	43.93
125	22.9	8	14.36	54.73

TABLE 14.1 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
130	27.4	10*	17.69	---
		3*/32.5,8	---	38.65
135	31.8	10*	19.12	---
		3*/32.5,8	---	42.56
140	37.0	10*	20.61	---
		3*/32.5,8	---	46.71
145	43.3	10* 3* } avg.	21.70	---
		3*/32.5,8	---	51.36
150	50.8	10* 3* } avg.	21.70	---
		3*/32.5,8	---	56.29
155	58.6	15*/30,8	31.38	90.15
160	65.9	15*/30,8	32.62	94.28
165	72.2	15*/30,8	33.61	97.57
170	77.4	15*/30,8	34.38	100.13
175	82.1	15*/30.8,8	35.33	102.67
180	88.0	15*/30.8,8/104.1,4	36.14	105.08
185	96.6	15*/30.8,8/107.1,4	37.27	108.68
190	108.9	15*/30.8,8/105.2,2	38.77	110.76
195	124.1	10*/30.2,8/100.7,2	35.09	109.32
200	140.5	10*/30.2,8/98.6,2	36.79	112.09
205	155.6	10*/30.2,8/98.6,2	38.27	115.18
210	167.1	10*/30.2,8/99.6,2	39.34	117.81
215	173.2	10*/31.9,8/102.4,2	40.10	120.16
220	172.7	10*/31.9,8/106.3,2	40.05	121.50
225	165.1	8*/31.7,8/110.2,2	35.52	119.05
230	150.6	8*/31.7,8/113.6,2	34.16	117.43

TABLE 14.1 (cont'd)

*Measured conductivity data extracted from WMLM 1983 full proof of performance (BL-19831109AH) and reproduced in Appendix A of this exhibit.

All other conductivity data extracted from FCC Figure M3.

TABLE 14.2

NORMALLY PROTECTED CONTOURS
WWKB - BUFFALO, NY
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.1 mV/m Contour (km)	0.025 mV/m Contour (km)
170	2789.5	8/17,4/133.6,2	162.21	242.29
175	2397.1	8/18,4/128,2	154.21	231.94
180	2003.1	8/19.3,4/123.5,2	145.46	220.37
185	1522.9	8/20.9,4/120,2	135.99	207.48
190	1270.6	8/23,4/117.3,2	126.03	193.31
195	956.9	8/25.8,4/115.7,2	115.74	178.08
200	689.4	8/29.7,4/114.9,2	103.35	161.95
205	472.3	8/36.1,4/115.9,2	91.26	145.74
210	306.6	8/47.2,4/122.2,2	80.46	131.14
215	191.6	8/65.6,4	72.58	116.97
220	125.0	8/76.2,4	62.41	103.35
225	99.3	8/81.7,4	56.60	96.86
230	95.2	8/86.5,4	55.59	96.60
235	96.4	8/97.3,4	55.90	99.43
240	96.3	8	55.87	99.97
245	71.4	8	49.22	88.39
250	81.2	8/59.6,10	51.97	96.19
255	97.3	8/42.3,10	57.59	105.77
260	91.2	8/35.1,10	56.76	103.80
265	65.7	8/29.7,10	49.67	91.10
270	69.6	8/24.4,10	51.73	94.12
275	93.6	8/20.8,10/82.5,8/93.5,5	59.42	103.40
280	82.0	8/18.3,10/52,8/94.3,5	56.08	97.27

TABLE 14.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>0.1 mV/m Contour (km)</u>	<u>0.025 mV/m Contour (km)</u>
285	64.4	8/16.5,10/42.2,8/95.8,5	50.28	88.25
290	89.6	8/15,10/36.2,8/96,5	56.89	99.43
295	135.0	8/13.9,10/21.7,8/96.4,5	65.51	112.75
300	210.6	8/13.1,10/21.2,8/96.7,5	79.38	131.25
305	335.6	8/12.4,10/20.2,8/97.6,5/100.8, 15/102.3,5	95.85	154.07

All conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.

TABLE 14.3

NORMALLY PROTECTED CONTOURS

WQCT - BRYAN, OH
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
0	216.2	8/37.8,4/104.5,8	39.82	117.29
5	216.2	8/39.8,4/106.8,8	39.82	117.42
10	216.2	8/42.3,4/107,8	39.82	118.21
15	216.2	8/46.8,4/106.9,8	39.82	119.64
20	216.2	8/59,4/105.4,8	39.82	123.89
25	216.2	8	39.82	137.34
30	216.2	8	39.82	137.34
35	216.2	8	39.82	137.34
40	216.2	8	39.82	137.34
45	216.2	8	39.82	137.34
50	216.2	8	39.82	137.34
55	216.2	8	39.82	137.34
60	216.2	8	39.82	137.34
65	216.2	8/133.2,10	39.82	137.62
70	216.2	8/133.3,10	39.82	137.62
75	216.2	8	39.82	137.34
80	216.2	8/97.1,15/113.4,8	39.82	140.34
85	216.2	8/85.6,15/128.9,8	39.82	145.32
90	216.2	8/80.7,15/131.7,8/146.4,15	39.82	146.92
95	216.2	8/80.1,15	39.82	149.90
100	216.2	8/80.2,15	39.82	149.89
105	216.2	8/80.8,15	39.82	149.72
110	216.2	8/82.6,15	39.82	149.26

TABLE 14.3 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
115	216.2	8/85.5,15	39.82	148.50
120	216.2	8/89.3,15	39.82	147.56
125	216.2	8/94.3,15	39.82	146.37
130	216.2	8/97.5,15	39.82	145.58
135	216.2	8/101.6,15	39.82	144.66
140	216.2	8/103.6,15	39.82	144.19
145	216.2	8/104.2,15	39.82	144.06
150	216.2	8/103.6,15	39.82	144.20
155	216.2	8/100,15	39.82	145.02
160	216.2	8/95.2,15	39.82	146.13
165	216.2	8/90.8,15	39.82	147.19
170	216.2	8/85.8,15	39.82	148.42
175	216.2	8/81.8,15/146.6,8	39.82	149.02
180	216.2	8/78.7,15/145.1,8	39.82	149.42

All conductivity data extracted from FCC Figure M3.

TABLE 14.4

NORMALLY PROTECTED CONTOURS
WINW - CANTON, OH
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
280	44.5	8	19.92	72.51
285	31.1	8	16.77	62.31
290	38.3	5*/31.2,8	14.25	58.93
295	34.6	5*/31.2,8	13.58	56.06
300	32.2	5*/31.2,8	13.13	54.09
305	28.3	5*/31.2,8	12.34	50.75
310	25.4	5*/31.2,8	11.71	48.08
315	23.5	8	14.54	55.30
320	22.1	6*/30.6,8	12.08	48.57
325	20.7	6*/30.6,8	11.69	47.10
330	20.9	6*/30.6,8	11.74	47.29
335	21.3	6*/30.6,8	11.85	47.71
340	21.8	6*/30.6,8	11.99	48.24
345	23.0	8	14.38	54.80
350	23.7	5*/28.3,8	11.32	47.14
355	25.1	5*/28.3,8	11.64	48.47
0	25.8	5*/28.3,8	11.79	49.09
5	25.9	5*/28.3,8	11.81	49.21
10	26.1	5*/28.3,8	11.87	49.45
15	26.2	8	15.38	57.94
20	26.3	6*/33.3,8	13.17	52.23
25	26.4	6*/33.3,8	13.20	52.38
30	26.5	6*/33.3,8	13.23	52.48

TABLE 14.4 (cont'd)

*Measured conductivity data extracted from WINW 1966 full proof of performance and reproduced in Appendix B of this exhibit.

All other conductivity data extracted from FCC Figure M3.

TABLE 14.5

NORMALLY PROTECTED CONTOURS

WJMP - KENT, OH

Cornerstone Church, Inc.

Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
235	148.7	8	33.98	118.93
240	201.4	3*/32,8	23.14	113.63
245	248.3	3*/32,8	25.47	124.55
250	284.9	3*/32,8	27.13	131.99
255	312.5	3*/32,8	28.31	137.18
260	333.1	3*/32,8/133.9,15	29.15	141.95
265	345.6	8/131.1,15	48.54	168.41
270	350.1	8/128.3,15	48.81	169.79
275	347.7	8/125.9,15	48.67	169.80
280	341.2	5*/32.1,8/124,15	38.97	157.87
285	335.2	5*/32.1,8/120.6,15/132.2, 8/140.6,15	38.62	155.85
290	334.5	5*/32.1,8/124.7,15/127,8	38.57	152.22
295	339.0	5*/32.1,8	38.84	152.58
300	347.8	5*/32.1,8/115.6,10	39.37	156.45
305	363.8	8/105.2,10/161.6,15	49.61	170.80
310	399.1	8/101.3,10/130.6,15/131.5, 10/148.7,15	51.04	170.07
315	423.1	8/98.4,10/137.6,15	52.89	184.13
320	464.5	6*/31.9,8/96.6,10/139.7, 15/168.4,10	49.48	182.60
325	511.8	6*/31.9,8/95.6,10/137.9, 15/161.5,10/186,15	51.79	188.74
330	562.8	6*/31.9,8/95.4,10/138,15	54.15	204.26
335	616.6	6*/31.9,8/95.8,10/136.1,15	56.51	210.87

TABLE 14.5 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
340	670.4	6*/31.9,8/97.1,10/129.7, 15/137.7,10/137.8,15	58.75	220.70
345	717.6	8/98.9,10/144.2,15	66.17	219.35
350	751.5	8/101,10/151.2,8/175.8,15	67.48	202.55

*Measured conductivity data extracted from WJMP (formerly WKNT) 1965 full proof of performance and reproduced in Appendix C of this exhibit.

All other conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.

TABLE 14.6

NORMALLY PROTECTED CONTOURS

WJKN - JACKSON, MI
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.25 mV/m Contour (km)
45	283.8	3*/32.2,8	28.72	43.04
50	203.6	3*/32.2,8	24.69	34.72
55	146.3	4/26.8,8	24.58	35.95
60	111.8	4/25.1,8	21.82	31.48
65	95.6	5*	23.01	31.14
70	89.2	5*	22.32	30.22
75	85.8	5*	21.93	29.71
80	84.5	5*	21.79	29.52
85	83.4	5*	21.66	29.35
90	93.6	5*	22.80	30.87
95	124.6	4/17,8	25.55	37.03
100	163.3	4*/32,8	25.82	36.25
105	201.9	4*/32,8	28.36	40.96
110	237.8	4*/32,8	30.51	44.90
115	270.1	2**	23.60	---
		3**	---	38.55
120	294.6	2**	24.58	---
		3**/39.4,8	---	40.45
125	308.3	2**	25.11	---
		3**/39.4,8	---	41.70
130	309.5	1**	20.47	---
		2**	---	34.79
135	296.9	1**	20.06	---
		2**	---	34.12

TABLE 14.6 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.25 mV/m Contour (km)
140	272.3	1**	19.24	---
		2**	---	32.77
145	240.0	1**	18.11	25.28
150	205.8	3*/31.4,8	24.81	35.39
155	173.3	3*/31.4,8	22.95	31.51
160	144.3	3*	21.12	28.94
165	122.2	3*	19.59	26.83
170	108.9	4/22.9,8	21.57	31.93
175	102.6	5*	23.74	32.13
180	99.0	5*	23.37	31.63
185	94.5	5*	22.89	30.99
190	88.2	5*	22.20	30.07
195	81.7	4*	18.98	25.82
200	77.5	4*	18.53	25.22
205	74.0	4*	18.15	24.71
210	65.7	4*	17.20	23.44
215	62.5	4	16.82	22.93
220	62.0	4	16.76	22.85
225	62.6	4	16.84	22.95
230	62.3	4	16.80	22.90
235	61.1	5* } } avg.	16.90	---
		4* }	---	22.70
		4*		
240	59.9	5* } } avg.	16.90	---
		4* }	---	22.51
		4*		
245	60.3	5* } } avg.	16.90	---
		4* }	---	22.57
		4*		

TABLE 14.6 (cont'd)

*Measured conductivity data extracted from WJKN (formerly WJCO) 1962 full proof of performance (BL-9925) and reproduced in Appendix D of this exhibit.

**Measured conductivity data from Appendix E of this exhibit.

All other conductivity data from FCC Figure M3.

TABLE 14.7

NORMALLY PROTECTED CONTOURS
WVAC - NORWALK, OH
 Cornerstone Church, Inc.
 Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.25 mV/m Contour (km)
220	95.6	15*/31,15	42.95	57.98
225	93.0	15*/31,15	42.42	57.31
230	87.7	15*/31,15	41.29	55.93
235	79.9	8/17.2,15	33.15	47.35
240	70.1	8/15.7,15	31.55	45.20
245	59.3	8/14.5,15	29.24	42.20
250	48.7	8/13.6,15	26.50	38.69
255	40.2	15*/31.4,15	28.20	39.69
260	35.9	15*/31.4,15	26.55	37.63
265	36.6	15*/31.4,15	26.83	37.98
270	40.9	15*/31.4,15	28.44	39.99
275	46.3	8/11.5,15	26.73	38.73
280	51.0	8/11.4,15	28.32	40.68
285	54.2	10*/31.6,15	26.39	37.42
290	55.3	10*/31.6,15	26.64	37.82
295	54.2	10*/31.6,15	26.39	37.42
300	51.0	10*/31.6,15	25.65	36.20
305	46.3	10*/31.6,8/33.3,15	24.47	33.47
310	40.9	8/12,15/26.4,8	24.62	32.91
315	36.6	8/12.2,15/25.7,8	22.90	31.24
320	35.9	15*/32.7,15/35.3,8	26.55	36.86
325	40.2	15*/32.7,15/33.9,8	28.20	37.75
330	48.7	15*/32.7,15/33.7,8	31.12	40.14

TABLE 14.7 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.25 mV/m Contour (km)
335	59.3	15*/32.7,15/33.1,8	33.89	42.60
340	70.1	8/15.5,15/21.3,8/26.6,15/31.5, 8	28.94	39.05
345	79.9	8*/19.2,15/20.2,8/26.4,15/30.4, 8	28.97	39.13
350	87.7	8*/19.2,15/19.4,8/28.5,15/29.5, 8	29.26	39.38
355	93.0	8*/19.2,8	29.70	39.96
0	95.6	8*/19.2,8	30.06	40.44
5	96.1	8*/17.2,8	30.13	40.52
10	95.6	8*/17.2,8	30.06	40.43

*Measured conductivity data extracted from WVAC (formerly WLKR) 1967 full proof of performance (BL-11015) and reproduced in Appendix F of this exhibit.

All other conductivity data extracted from FCC Figure M3.

TABLE 14.8

NORMALLY PROTECTED CONTOUR
WLQV - DETROIT, MI
 Cornerstone Church, Inc.
 Rossford, OH

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance(km))</u>	<u>5 mV/m Contour (km)</u>
90	358.1	15*	26.51
95	337.6	15*	25.68
100	298.6	30*/29.1,15	31.13
105	253.9	30*	28.98
110	222.8	30*	26.57
115	200.7	20*	21.45
120	182.0	20*	20.14
125	161.3	20*	18.60
130	144.0	20*	17.24
135	138.9	15*	15.15
140	144.9	15*	15.57
145	149.2	15*	15.86
150	175.5	15*	17.58
155	207.3	10*/12.5,8	15.66
160	232.8	10*/12.5,8	16.58
165	257.7	10*/12.5,8	17.42
170	299.3	10*	19.66
175	350.0	10*/20,8	21.12
180	398.7	10*/20,8	22.36
185	438.6	10*/20,8	23.31
190	465.7	8	21.70
195	491.7	8	22.26
200	518.2	8	22.82

TABLE 14.8 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>5 mV/m Contour (km)</u>
205	547.0	15*/32,8	32.66
210	569.5	15*/32,8	33.10
215	574.2	15*/32,8	33.19
220	556.1	15*/32,8	32.84
225	517.8	8	22.81
230	466.0	8	21.70
235	406.8	10* } 6* } } avg.	20.92
240	345.6	10* } 6* } } avg.	20.92
245	288.7	10*	19.30
250	243.5	10*	17.63
255	209.4	10*	16.23
260	186.4	10*	15.20
265	174.3	10*	14.62
270	175.8	10*	14.70
275	190.6	10*	15.39
280	214.5	10*	16.44
285	236.1	10*	17.33
290	244.4	10*	17.66
295	238.8	10*	17.44
300	234.8	8	15.42

*Measured conductivity data extracted from WLQV (formerly WDEE) 1972 full proof of performance (BZ-8243) and reproduced in Appendix G of this exhibit.

All other conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.

TABLE 14.9

**WDMN PROPOSED DAYTIME
FIELD STRENGTH CONTOURS**

Cornerstone Church, Inc.
Rossford, OH

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>25mV/m Contour (km)</u>	<u>5mV/m Contour (km)</u>	<u>0.5mV/m Contour (km)</u>	<u>0.25mV/m Contour (km)</u>	<u>0.025mV/m Contour (km)</u>	<u>0.005mV/m Contour (km)</u>
0	707.5	10*/32.7,8	12.29	27.96	69.72	91.99	211.16	---
5	708.2	10*/32.7,8/205.3,15	12.30	27.98	69.74	92.02	211.85	---
10	697.6	15/5.3,8/164.7,15	11.83	25.33	66.25	88.41	212.69	---
15	675.5	15/6.6,8/143.1,15	11.96	25.32	65.70	87.57	214.29	---
20	641.6	8*	10.45	---	---	---	---	---
		20*/20.5,8/128.2,15	---	30.68	70.22	91.65	220.30	---
25	595.9	8*	10.01	---	---	---	---	---
		20*/20.5,8/84.5,10/96.9,15,97.2,10/98.6, 8/116.2,15/204.6,8	---	29.90	68.27	89.95	217.55	---
30	538.7	8*	9.43	---	---	---	---	---
		20*/20.5,8/72.7,10/75.2,15/107.4, 10/108.7,8/110,15/193.3,10	---	28.88	65.70	88.77	218.11	---
35	470.9	8*	8.70	---	---	---	---	---
		20*/20.5,8/62.3,10/72.1,15	---	27.56	62.47	85.43	213.42	---
40	394.9	8*	7.79	---	---	---	---	---
		20*/20.5,8/59.3,10/73.4,5/117.1, 10/140.4,15/289.9,10	---	25.93	58.48	78.78	198.33	315.91
45	313.9	15*/28.2,8/57.3,10/74.5,8	8.41	23.35	54.77	72.30	167.60	272.06

TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
50	232.5	15*/28.2,8/58.6,10/90,15/199.6,8	6.70	19.76	49.22	63.68	165.81	270.07
55	156.0	15*/28.2,15/29.2,8/60.5,10/98.1,15	4.87	15.59	43.18	54.99	140.99	247.23
60	89.9	15*/28.2,15/30.7,8/63.2,10/98.6,8	3.05	10.86	36.36	45.83	109.33	190.48
65	39.4	15*/28.2,15/32.6,8/66.4,10	1.44	5.88	26.33	35.47	79.67	148.44
70	14.2	15*/32.7,15/35.9,8/70.7,10	0.54	2.47	14.67	22.08	55.37	101.35
75	20.4	15*/32.7,15/40.6,8/76.1,10	0.77	3.41	18.34	26.82	64.36	117.94
80	22.0	15*/32.7,15/43.1,8	0.83	3.64	19.17	27.88	66.85	118.61
85	16.3	15*/32.7,15/45.6,8	0.62	2.80	16.04	23.86	61.24	107.27
90	12.9	15*/32.7,15/66.6,8	0.50	2.27	13.84	20.99	61.31	104.56
95	17.5	15/46.8,8/60,15/72,8	0.67	2.98	16.75	24.77	64.10	113.41
100	20.9	5* 7*/32.3,15/49.5,8/53.6,15/69.6,8	0.70 ---	2.61 ---	10.63 ---	14.85 ---	--- 55.33	--- 109.43
105	18.9	5* 7*/32.3,15/67.8,8	0.64 ---	2.42 ---	10.10 ---	14.16 ---	--- 53.76	--- 105.92
110	13.9	5* 7*/32.3,15/67.7,8	0.48 ---	1.91 ---	8.59 ---	12.22 ---	--- 45.39	--- 93.99
115	14.4	5* 7*/32.3,15/68.7,8	0.50 ---	1.96 ---	8.77 ---	12.45 ---	--- 46.38	--- 95.62
120	20.7	15/70.2,8	0.78	3.44	18.47	26.99	73.09	123.60

TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
125	23.7	15/72.4,8	0.89	3.87	19.98	28.91	76.75	129.96
130	19.5	15	0.74	3.27	17.84	26.17	72.31	---
135	14.6	7*/30.9,15	0.53	2.19	10.53	15.11	47.51	---
140	33.4	7*/30.9,15	1.12	4.13	16.11	22.22	72.53	---
145	67.0	7*/30.9,15/97,8	2.04	6.63	22.26	30.12	99.67	---
150	107.0	7*/30.9,15/110.7,8	2.96	8.82	27.34	39.82	120.64	---
155	149.1	15/127.7,8	4.69	15.16	48.82	64.96	152.33	---
160	189.8	15/135.8,8	4.71	17.56	54.01	71.55	165.53	---
165	225.9	15/139.7,8	6.55	19.44	58.02	76.69	175.13	---
170	255.1	4*	4.33	---	---	---	---	---
		8*/31.5,15/143.3,8	---	15.17	47.29	66.78	170.98	---
175	275.7	4*	4.54	---	---	---	---	---
		8*/31.5,15/145.6,8	---	15.78	49.23	69.29	175.55	---
180	286.5	4*	4.64	---	---	---	---	---
		8*/31.5,15/148.4,8	—	16.08	50.22	70.56	178.15	---
185	287.1	4*	4.65	---	---	---	---	---
		8*/31.5,15/151.2,8	---	16.10	50.28	70.64	178.73	---
190	277.5	15/50.8,8/68.1,15/154.4,8	7.67	21.83	59.63	76.81	183.47	---
195	258.0	15/32,8/90,15/157.3,8	7.26	20.97	52.34	66.97	168.30	---

TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
200	229.8	4*	4.05	---	---	---	---	---
		8*	---	14.37	---	---	---	---
		10*/32.3,8/98.7,15	---	---	44.74	58.66	153.82	---
205	194.4	4*	3.65	---	---	---	---	---
		5*	---	13.16	---	---	---	---
		10*/32.3,8/103.6,15	---	---	41.96	54.91	142.54	---
210	154.2	4*	3.13	---	---	---	---	---
		8*	---	11.59	---	---	---	---
		10*/32.3,8/107.2,15	---	---	38.39	50.14	128.22	---
215	112.0	4*	2.52	---	---	---	---	---
		8*	---	9.65	---	---	---	---
		10*/32.2,8	---	---	33.99	44.31	110.16	---
220	71.6	4*	1.81	---	---	---	---	---
		5*	---	5.30	---	---	---	---
		10*/32.2,8	---	---	28.11	37.32	92.35	---
225	36.9	15/7.2,8	1.36	5.58	19.56	26.43	68.30	---
230	15.5	4*	0.51	1.92	8.07	---	---	---
		7*/33,8	---	---	---	15.52	43.71	---
235	18.6	4*	0.60	2.20	8.87	---	---	---
		7*/33,8	---	---	---	16.96	47.44	---
240	23.6	4*	0.74	2.61	13.56	---	---	---
		7*/33,8	---	---	---	18.98	52.80	---

TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
245	21.3	4* 7*/33,8	0.68 ---	2.43 ---	9.51 ---	--- 18.12	--- 50.50	---
250	15.1	4* 7*/33,8	0.50 ---	1.89 ---	7.97 ---	--- 15.33	--- 43.22	---
255	13.4	15/3.4,8	0.52	2.36	11.16	16.01	44.08	---
260	18.3	10*/31.9,8	0.68	2.87	14.26	20.53	53.63	---
265	21.0	10*/31.9,8	0.77	3.21	15.36	21.92	56.54	---
270	18.2	10*/31.9,8	0.67	2.85	14.19	20.43	53.42	---
275	13.2	10*/32.9,8	0.50	2.17	11.79	17.36	47.15	---
280	15.5	15/2.4,8	0.60	2.63	11.90	17.01	46.68	---
285	21.6	15/2.3,8	0.82	3.34	14.16	19.89	53.62	---
290	21.2	7* 10*/32.8,8	0.74 ---	2.93 ---	12.83 ---	18.04 ---	--- 56.83	---
295	14.0	7* 10*/32.8,8	0.51 ---	2.11 ---	10.27 ---	14.78 ---	--- 48.36	---
300	34.7	7* 10*/32.8,8	1.16 ---	4.25 ---	16.42 ---	--- 27.73	--- 69.20	---
305	82.9	7* 10*/32.8,8/83.5,4	2.42 ---	7.57 ---	--- 30.01	--- 39.53	--- 94.66	---

TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
310	147.4	8* 8*/53.1,8/83.3,4	3.94 ---	11.30 ---	--- 33.85	--- 45.38	--- 110.94	---
315	222.9	8** 8** } 5** } avg. 8**/53.1,8/84,4	5.32 --- ---	--- 13.00 ---	--- --- 40.33	--- --- 54.07	--- --- 127.61	---
320	304.0	8** 8** } 5** } avg. 8**/53.1,8/86.3,4/132.5,8	6.58 --- ---	--- 13.00 ---	--- --- 45.98	--- --- 61.68	--- --- 144.03	---
325	385.3	8** 5** 8**/53.1,8/89.5,4/126.7,8	7.67 --- ---	--- 14.29 ---	--- --- 50.83	--- --- 68.21	--- --- 159.79	---
330	462.2	15** 6**/42.2,8/93.7,4/116.1,8	11.07 ---	--- 17.23	--- 47.92	--- 66.67	--- 167.56	---
335	531.1	15** } 6** } avg. 6**/42.2,8	12.00 ---	--- 18.36	--- 51.25	--- 71.11	--- 181.83	---
340	589.6	15** } 6** } avg. 6**/42.2,8	12.00 ---	--- 19.25	--- 53.89	--- 74.62	--- 188.44	---
345	636.8	15** } 6** } avg. 6**/42.2,8	12.00 ---	--- 19.93	--- 55.91	--- 77.28	--- 193.33	---

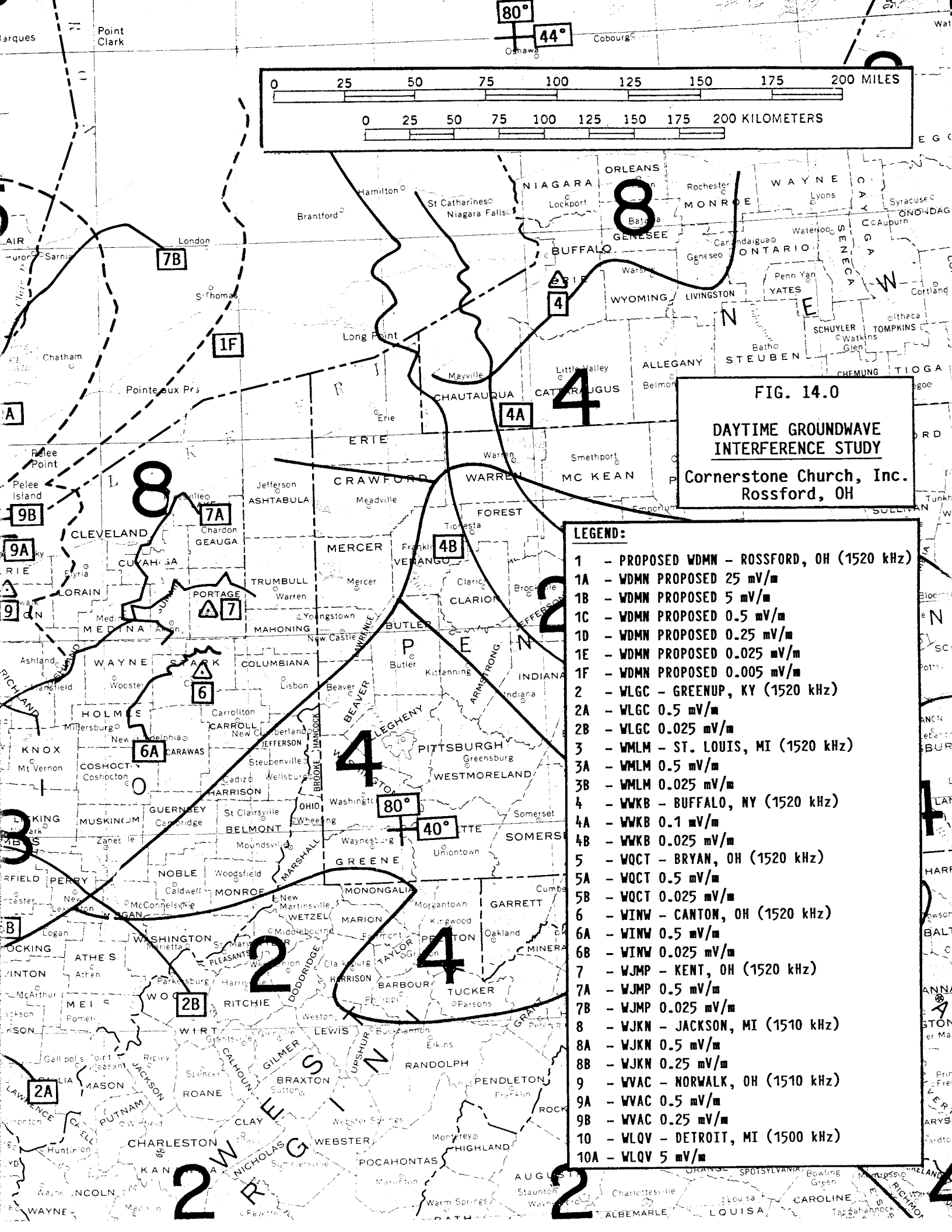
TABLE 14.9 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/nding distance(km))	25mV/m Contour (km)	5mV/m Contour (km)	0.5mV/m Contour (km)	0.25mV/m Contour (km)	0.025mV/m Contour (km)	0.005mV/m Contour (km)
350	372.0	10*/32.7,8	11.92	27.32	68.30	90.12	207.76	---
355	695.5	10*/32.7,8	12.17	27.75	69.24	91.37	210.02	---

*Measured conductivity data extracted from WJYM (formerly WRHW)1961 full proof of performance (BL-8105) and reproduced in Appendix H of this exhibit.

**Measured conductivity data from Appendix I of this exhibit.

All other conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.



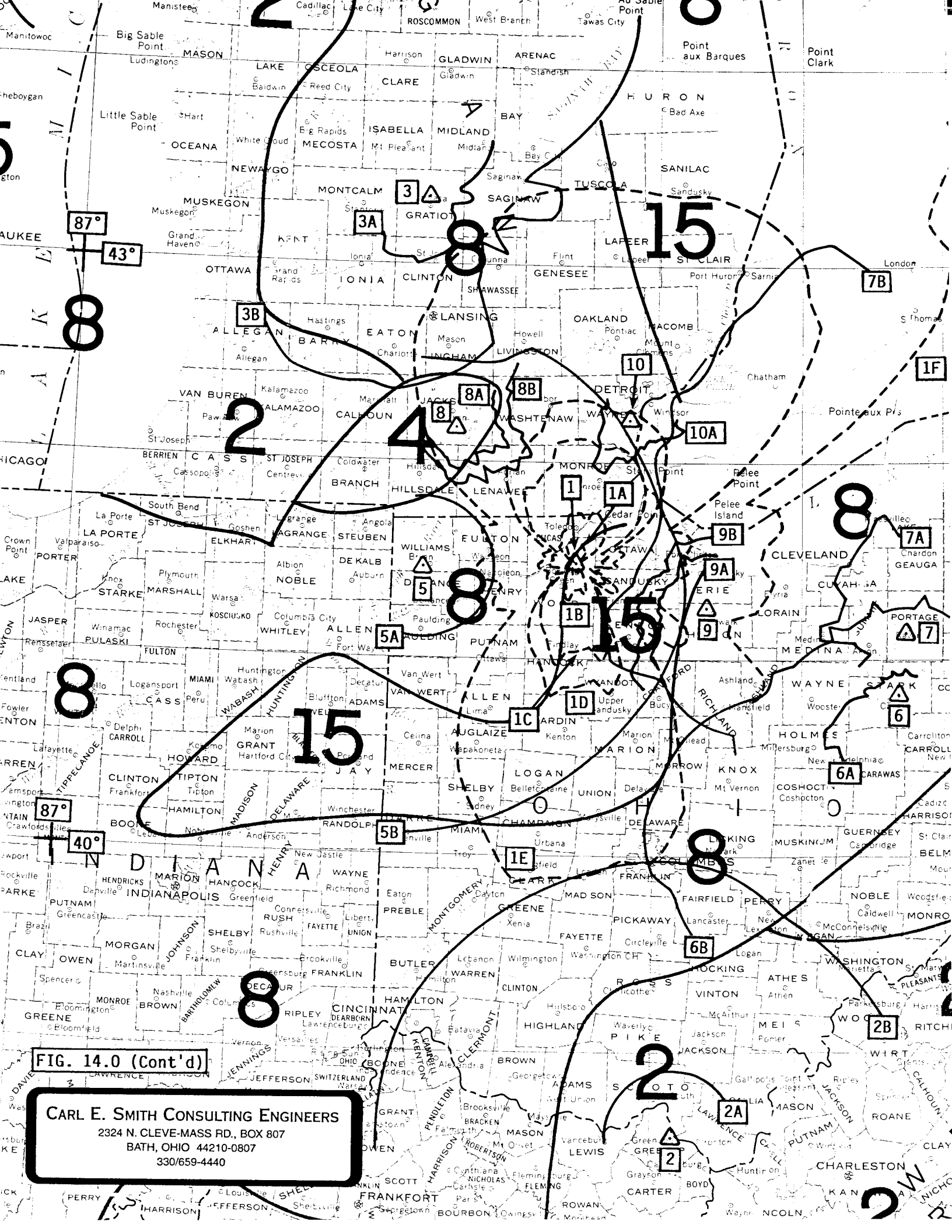


FIG. 14.0 (Cont'd)

CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS RD., BOX 807
BATH, OHIO 44210-0807
330/659-4440

TABLE 14.10

WDMN PRESENT DAYTIME
FIELD STRENGTH CONTOURS

Cornerstone Church, Inc.
Rossford, OH

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
0	27.7	10*/29,8	17.80	62.73
5	16.1	6* 10*/29,8	10.24 ---	--- 50.57
10	23.5	10*/29,8	16.32	58.74
15	31.4	10*/29,8	18.98	65.99
20	35.2	8*/30.1,8	17.81	65.65
25	37.7	8*/30.1,8	18.41	67.60
30	37.0	8*/30.1,8	18.24	67.05
35	35.5	8*/30.1,8	17.88	65.88
40	35.4	8*/30.1,8/60.6,10/63.7,15	17.86	67.12
45	32.7	15*/21.1,8/52.8,10/57.5,15	22.94	73.95
50	32.2	15*/21.1,8/51.4,10/53.8,15	22.81	74.29
55	28.5	15*/21.1,8/47.5,10/57.3,15	21.80	70.02
60	27.7	15*/21.1,8/45.8,10/57.3,15	21.58	69.32
65	29.0	15*/9.3,8/45.8,10	18.10	64.06
70	28.9	15*/9.3,8/46.1,10	18.10	64.01
75	29.0	15*/9.3,8/48.9,10	18.10	63.73
80	24.3	15*/9.3,8/53.5,10	16.72	58.46
85	24.4	15*/9.3,8	16.74	58.07
90	25.1	15*/10,8	17.21	59.05
95	29.3	15*/10,8	18.43	62.89
100	35.4	15*/10,8	20.02	67.97
105	36.2	15*/10,8	20.22	68.61

TABLE 14.10 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
110	39.5	15*/10,8/24,15/46.6,8/63.9, 15/74.1,8	20.98	80.58
115	50.4	8/21.7,15/65.8,8/70.7,15/81,8	21.10	91.59
120	78.1	8/20.2,15/58.6,8/66.9,15/80.8, 8	28.49	106.56
125	133.1	8/19.3,15/81.8,8	38.75	131.41
130	211.5	15*/32.3,15/85.1,8	56.49	160.53
135	309.2	15*/32.3,15/89.4,8	65.91	181.98
140	422.2	15*/32.3,15/95,8	74.65	201.30
145	543.7	15*/32.3,15/104.7,8	82.52	218.91
150	664.5	15*/32.3,15/117.6,8	89.31	234.37
155	774.0	8/17.5,15/138.2,8	87.95	242.69
160	861.7	8*/34.1,15/157.9,8	84.04	246.57
165	918.4	8*/34.1,15/164.1,8	86.53	251.86
170	938.1	8*/34.1,15/168.6,8	87.36	253.92
175	918.4	8*/34.1,15/171.3,8	86.53	252.90
180	861.7	8*/34.1,15/174.3,8	84.04	249.05
185	774.5	8/43.4,15/61.4,8/90.1, 15/177.6,8	72.91	232.32
190	667.8	6*/32.8,8/113.8,15/180.1,8	58.51	207.31
195	551.6	6*/32.8,8/122.8,15/183.6,8	53.51	193.98
200	434.5	6*/32.8,8/127.2,15	47.82	177.88
205	323.0	6*/32.8,8/129.5,15	41.50	157.49
210	221.6	6*/32.8,8/131.7,15	34.57	133.16
215	135.8	8	32.68	114.75
220	75.6	8	25.36	90.51
225	45.4	8	20.10	73.10

TABLE 14.10 (cont'd)

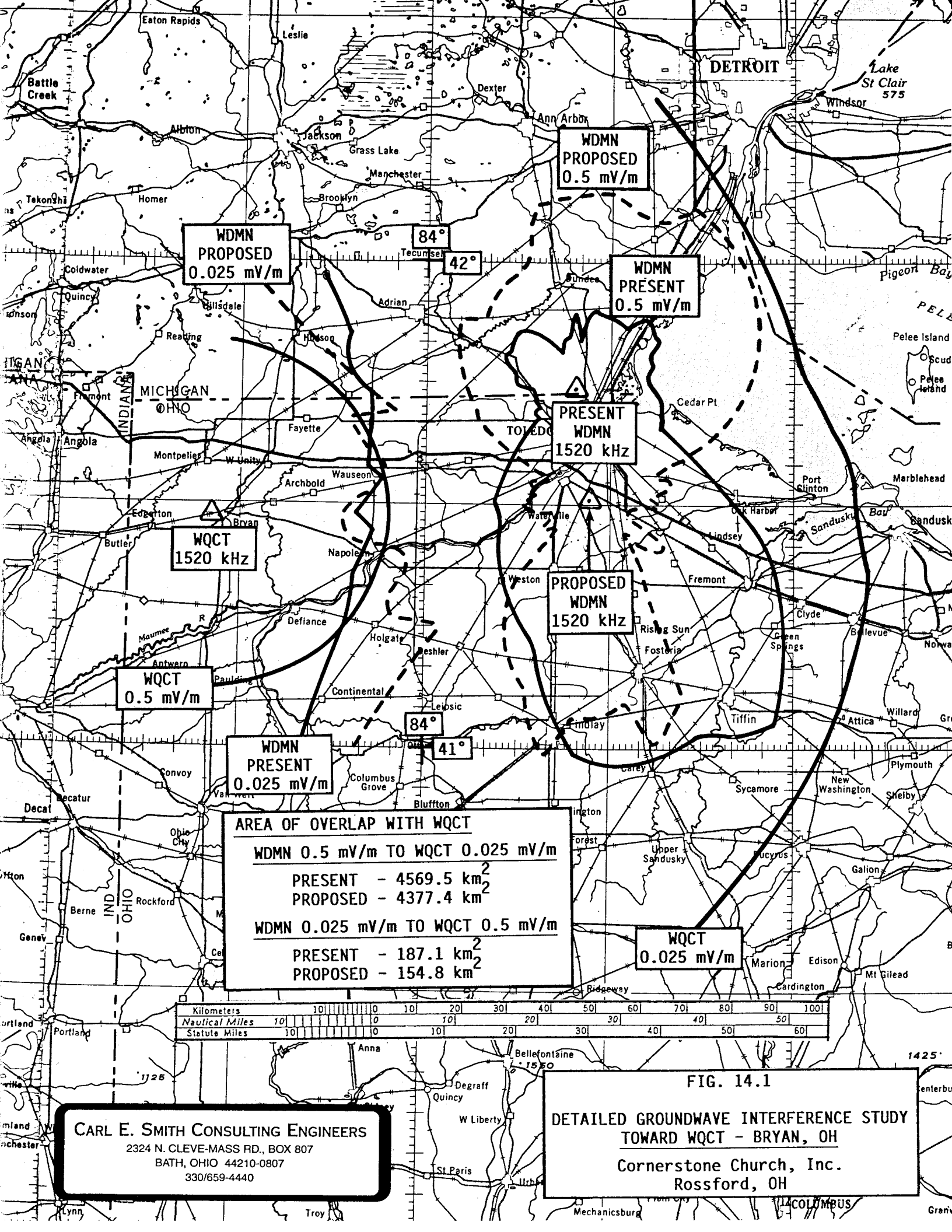
Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
230	35.4	4* 8*/33.9,8	12.14 ---	--- 65.80
235	24.4	4* 8*/33.9,8	10.16 ---	--- 56.23
240	25.8	4* 8*/33.9,8	10.42 ---	--- 57.48
245	16.8	4* 8*/33.9,8	8.42 ---	--- 47.92
250	18.7	4* 8*/33.9,8	8.89 ---	--- 50.16
255	17.4	5* 8*/24.6,8	9.68 ---	--- 48.70
260	16.1	5* 8*/24.6,8	9.29 ---	--- 47.10
265	15.3	5* 8*/24.6,8	9.06 ---	--- 46.13
270	15.6	5* 8*/24.6,8	9.14 ---	--- 46.49
275	16.3	10*/32.3,8	13.35	51.28
280	17.3	10*/32.3,8	13.79	52.43
285	17.7	10*/32.3,8	13.98	52.93
290	21.1	10*/32.3,8	15.40	56.69
295	27.4	10*/32.3,8	17.69	62.88
300	32.0	8	17.00	63.05
305	33.6	8*/30.7,8	17.40	64.35
310	36.3	8*/30.7,8	18.07	66.49
315	37.8	8*/30.7,8	18.42	67.65
320	35.2	8*/30.7,7	17.81	65.65
325	28.6	8	16.07	60.09
330	20.5	8	13.54	52.50

TABLE 14.10 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	0.5 mV/m Contour (km)	0.025 mV/m Contour (km)
335	16.1	8	11.87	47.10
340	19.3	4*/23.2,8	9.04	40.16
345	27.1	4*/23.2,8	10.69	48.07
350	35.4	4*/23.2,8	12.14	55.10
355	34.2	4*/23.2,8	11.93	54.09

*Measured conductivity data extracted from WDMN (formerly WTTO) 1967 daytime full proof of performance (BL-11,577) and reproduced in Appendix J of this exhibit.

All other conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.



WDMN
PROPOSED
0.025 mV/m

WDMN
PROPOSED
0.5 mV/m

WDMN
PRESENT
0.5 mV/m

PRESENT
WDMN
1520 kHz

WQCT
1520 kHz

WQCT
0.5 mV/m

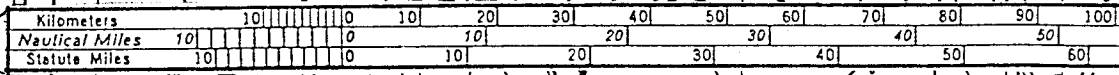
WDMN
PRESENT
0.025 mV/m

PROPOSED
WDMN
1520 kHz

WQCT
0.025 mV/m

AREA OF OVERLAP WITH WQCT

WDMN 0.5 mV/m TO WQCT 0.025 mV/m
PRESENT - 4569.5 km ²
PROPOSED - 4377.4 km ²
WDMN 0.025 mV/m TO WQCT 0.5 mV/m
PRESENT - 187.1 km ²
PROPOSED - 154.8 km ²



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FIG. 14.1
DETAILED GROUNDWAVE INTERFERENCE STUDY
TOWARD WQCT - BRYAN, OH
Cornerstone Church, Inc.
Rossford, OH

