

EXHIBIT 14.1  
(Page 1 of 8)

NIGHTTIME GROUNDWAVE  
INTERFERENCE STUDY  
M-10 Broadcasting, Inc.  
Pikesville, MD

There is one station which requires groundwave protection consideration by WWLG during nighttime hours. This station is WWIN - Baltimore, Maryland, which operates on 1400 kHz. Table 14.1.0 presents a tabulation of the WWIN 25 mV/m nighttime groundwave contour. Likewise, Table 14.1.1 presents a tabulation of the proposed WWLG 25 mV/m nighttime groundwave contour. Both of these contours were projected using conductivity data extracted from FCC Figure M3.

Figure 14.1.0 presents these contours on an appropriate map base. As shown in this figure, the proposed WWLG nighttime facilities will provide the required nighttime groundwave protection to WWIN.

TABLE 14.1.0

WWIN 25 mV/m NIGHTTIME  
GROUNDWAVE CONTOUR  
M-10 Broadcasting, Inc.  
Pikesville, MD

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance(km))</u>	<u>25 mV/m Contour (km)</u>
0	304.2	4	5.35
5	304.2	4	5.35
10	304.2	4	5.35
15	304.2	4	5.35
20	304.2	4	5.35
25	304.2	4	5.35
30	304.2	4	5.35
35	304.2	4	5.35
40	304.2	4	5.35
45	304.2	4	5.35
50	304.2	4	5.35
55	304.2	4	5.35
60	304.2	4	5.35
65	304.2	4	5.35
70	304.2	4	5.35
75	304.2	4	5.35
80	304.2	4	5.35
85	304.2	4	5.35
90	304.2	4	5.35
95	304.2	4	5.35
100	304.2	4	5.35
105	304.2	4	5.35
110	304.2	4	5.35

TABLE 14.1.0 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>25 mV/m Contour (km)</u>
115	304.2	4	5.35
120	304.2	4	5.35
125	304.2	4	5.35
130	304.2	4	5.35
135	304.2	4	5.35
140	304.2	4	5.35
145	304.2	4	5.35
150	304.2	4	5.35
155	304.2	4	5.35
160	304.2	4	5.35
165	304.2	4	5.35
170	304.2	4	5.35
175	304.2	4	5.35
180	304.2	4	5.35
185	304.2	4	5.35
190	304.2	4	5.35
195	304.2	4	5.35
200	304.2	4	5.35
205	304.2	4	5.35
210	304.2	4	5.35
215	304.2	4	5.35
220	304.2	4	5.35
225	304.2	4	5.35
230	304.2	4	5.35
235	304.2	4	5.35
240	304.2	4	5.35

TABLE 14.1.0 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>25 mV/m Contour (km)</u>
245	304.2	4/5.3, 2	5.34
250	304.2	4/4.8, 2	5.17
255	304.2	4/4.4, 2	5.04
260	304.2	4/4.1, 2	4.95
265	304.2	4/3.9, 2	4.88
270	304.2	4/3.7, 2	4.83
275	304.2	4/3.6, 2	4.79
280	304.2	4/3.5, 2	4.76
285	304.2	4/3.5, 2	4.74
290	304.2	4/3.4, 2	4.73
295	304.2	4/3.4, 2	4.72
300	304.2	4/3.4, 2	4.73
305	304.2	4/3.5, 2	4.74
310	304.2	4/3.5, 2	4.77
315	304.2	4/3.6, 2	4.80
320	304.2	4/3.8, 2	4.84
325	304.2	4/4, 2	4.90
330	304.2	4/4.2, 2	4.98
335	304.2	4/4.5, 2	5.08
340	304.2	4/4.9, 2	5.20
345	304.2	4	5.35
350	304.2	4	5.35
355	304.2	4	5.35

All conductivity data extracted from FCC Figure M3.

TABLE 14.1.1

WWLG PROPOSED 25 mV/m  
NIGHTTIME GROUNDWAVE CONTOUR  
M-10 Broadcasting, Inc.  
Pikesville, MD

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance(km))</u>	<u>25 mV/m Contour (km)</u>
0	34.7	2	0.89
5	30.8	2	0.81
10	46.4	2	1.11
15	67.8	2	1.46
20	80.0	2	1.64
25	75.9	2	1.59
30	59.0	2	1.32
35	52.0	2	1.20
40	69.4	2	1.49
45	79.7	2	1.64
50	64.8	2	1.42
55	97.0	2	1.88
60	241.0	2	3.36
65	453.7	2	4.82
70	709.6	2	6.13
75	983.9	2	7.24
80	1252.4	2	8.17
85	1494.8	2	8.91
90	1697.6	2	9.47
95	1855.1	2	9.88
100	1968.4	2	10.17
105	2043.7	2	10.35
110	2089.8	2	10.46

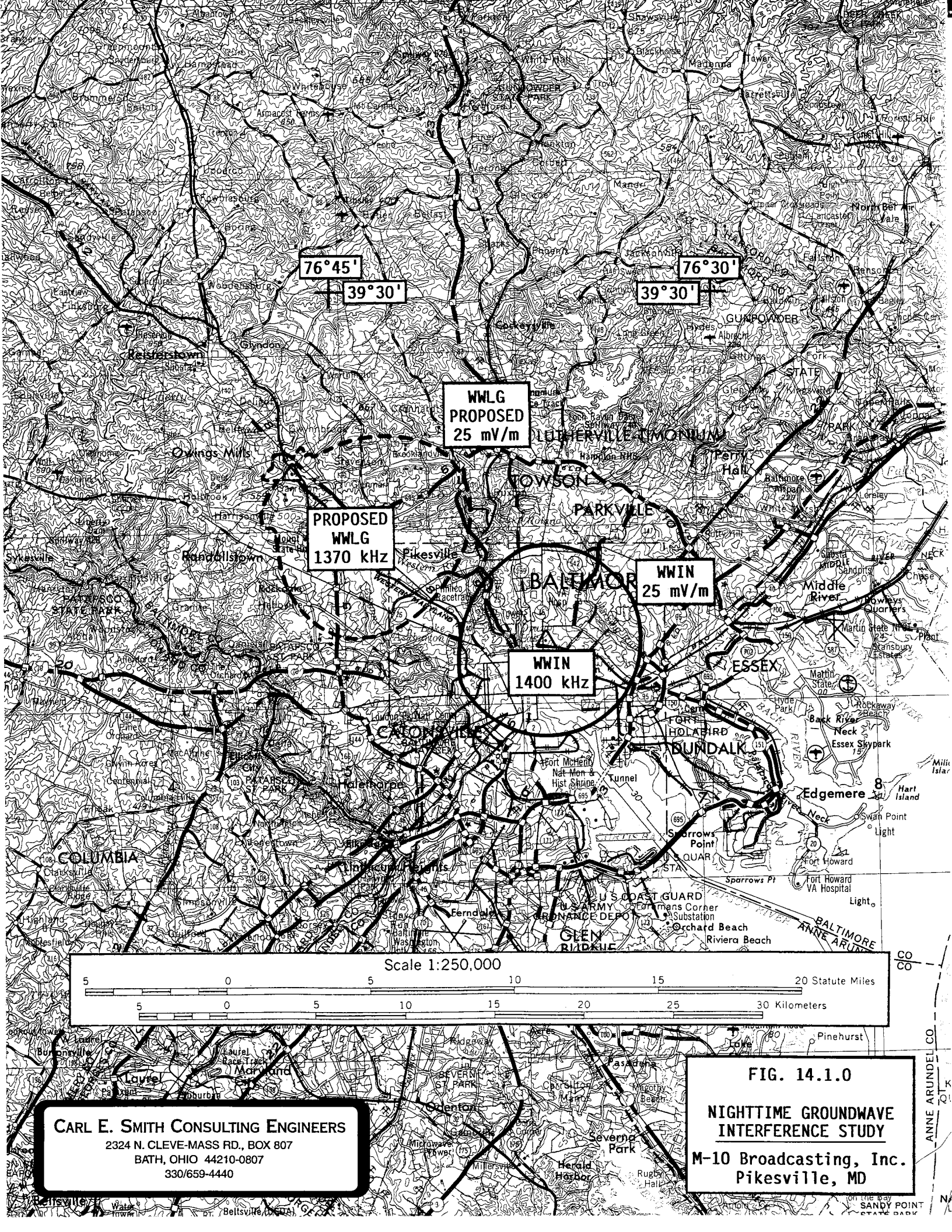
TABLE 14.1.1 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>25 mV/m Contour (km)</u>
115	2116.2	2	10.53
120	2131.1	2	10.56
125	2140.3	2	10.58
130	2146.3	2	10.60
135	2148.4	2	10.60
140	2142.3	2	10.59
145	2120.6	2	10.54
150	2073.9	2	10.43
155	1992.0	2	10.23
160	1865.8	2	9.91
165	1690.1	2	9.45
170	1465.6	2	8.82
175	1201.3	2	8.00
180	915.0	2	6.98
185	633.9	2	5.77
190	394.4	2	4.46
195	248.7	2	3.42
200	228.3	2	3.25
205	250.0	2	3.43
210	244.2	2	3.39
215	204.9	2	3.04
220	149.6	2	2.50
225	100.2	2	1.92
230	70.9	2	1.51
235	55.0	2	1.26
240	39.0	2	0.97

TABLE 14.1.1 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>25 mV/m Contour (km)</u>
245	29.2	2	0.77
250	43.3	2	1.05
255	63.8	2	1.40
260	77.1	2	1.60
265	80.1	2	1.65
270	74.2	2	1.56
275	63.4	2	1.39
280	52.5	2	1.21
285	46.2	2	1.10
290	46.6	2	1.11
295	51.6	2	1.20
300	58.1	2	1.31
305	64.1	2	1.40
310	68.5	2	1.47
315	70.7	2	1.51
320	70.1	2	1.50
325	66.5	2	1.44
330	60.5	2	1.35
335	54.0	2	1.24
340	49.7	2	1.16
345	48.8	2	1.15
350	48.5	2	1.14
355	44.1	2	1.06

All conductivity data extracted from FCC Figure M3.



76°45'  
39°30'

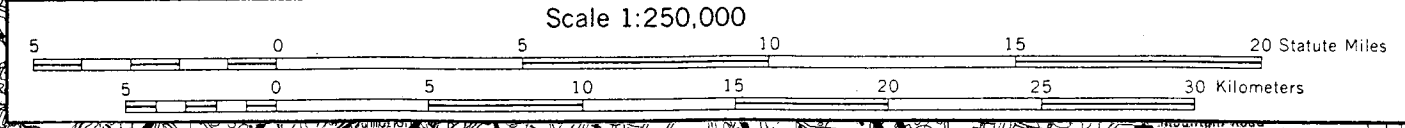
76°30'  
39°30'

WLG  
PROPOSED  
25 mV/m

PROPOSED  
WLG  
1370 kHz

WWN  
25 mV/m

WWN  
1400 kHz



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**FIG. 14.1.0**  
**NIGHTTIME GROUNDWAVE**  
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**M-10 Broadcasting, Inc.**  
**Pikesville, MD**