

Anderson Associates

Broadcast Consultants
1519 Euclid Avenue
Bowling Green, KY 42103

Technical Report W247BL Minor Modification

As the Commission's rules now allow translators to serve as fill-ins for primary AM facilities, this technical report is submitted for a minor modification to W247BL at Crestline, OH, FCC file no. BLFT-20090921ACQ. A change in ERP and antenna orientation is requested for the translator to serve as a fill-in to rebroadcast the primary signal of WRGM(AM) 1440kHz at Ontario, OH, FCC facility I.D. 25476.

The following exhibits are provided to support the FCC form 349 application:

- E-1 W247BL Overlap Study
- E-2 60 dBu Contour within the Daytime 2.0 mV/m WRGM(AM) Contour
- E-3 Interference Plot to WLRD(FM) 245A
- E-4 Tabulation of Interference Contour to WLRD 245A
- E-5 Scala CA5-FM Horizontal Pattern
- E-6 Scala CA5-FM/CP/RM Vertical Elevation Pattern and Tabulation
- E-7 Tower Site Aerial Photo
- E-8 ASR1013230

W247BL.CP Modification Analysis:

Exhibit E-1 shows the W247BL modified facility is inside the 2nd adjacent WLRD(FM) 245A 60 dBu protected contour. Therefore, the interference ratio is utilized to determine the interference contour in accordance with FCC-02-244, paragraph 12.

Exhibit E-3 shows the F(50-50) contour from WLRD(FM) to the new tower site for W247BL is 62.17 dBu. Adding the +40 dBu yields an F(50-10) interfering contour of 102.17 dBu. Since the facility is to be located within an area that might receive

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interference, the vertical elevation pattern of the Scala two bay CA5-FM/CP/RM antenna was used to determine the actual line of sight reduced ERP to the interfering contour.

Exhibit E-4 shows a tabulation of the actual line of sight distance at each degree, starting from a depression angle of 9 degrees, which demonstrates the actual interfering contour will not exceed the +40 102.17 dBu F(50-10) contour calculated using the V-Soft CONTOUR program at a plane located 9 meters above ground including the buildings and roads located nearby. The 102.17 dBu F(50-10) contour was calculated at each additional degree of depression through 90 degrees. The closest point was located at a depression angle of 17 degrees below the horizon where the (50,10) contour was calculated to be 102.01 dBu. The actual 102.17 dBu contour occurs at 395.1 meters along the line of sight path. This point is actually 11.22 meters vertically above ground, and defines a plane of at least 11.22 meters above ground for the interfering contour along the entire area within the contour. Clearly, the 102.17 dBu (50,10) interfering contour will not reach any potential population, roads, or buildings. Consequently, a waiver of Section 74.1204 is requested.

Antenna System:

W247BL.CP is to be remain at its current tower, ASR #1013230, at coordinates:

40 45 50N 82 37 04W NAD 27.

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The facility will operate at a COR AGL of 120 meters and 0.120 kW ERP using a Scala CA5-FM/CP/RM 2 bay 0.87 wavelength directional antenna stack rotated at an azimuth of 140 degrees.

RF Exposure Calculation:

The RF contribution of the facility was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (distance to radiation center in meters -2m)}}$$

Using the worst-case vertical (F) factor of 0.164, specified by Scala for the CA5-FM/CP stacked antenna, yields an RF value of 0.015 μ W/cm² to the ground, which is well below 5% of the 200 μ W/cm² maximum permissible for general public exposure, allowing exclusion from consideration.

Conclusion:

It is concluded that the modification of W247BL complies with all Commission rules and policies.

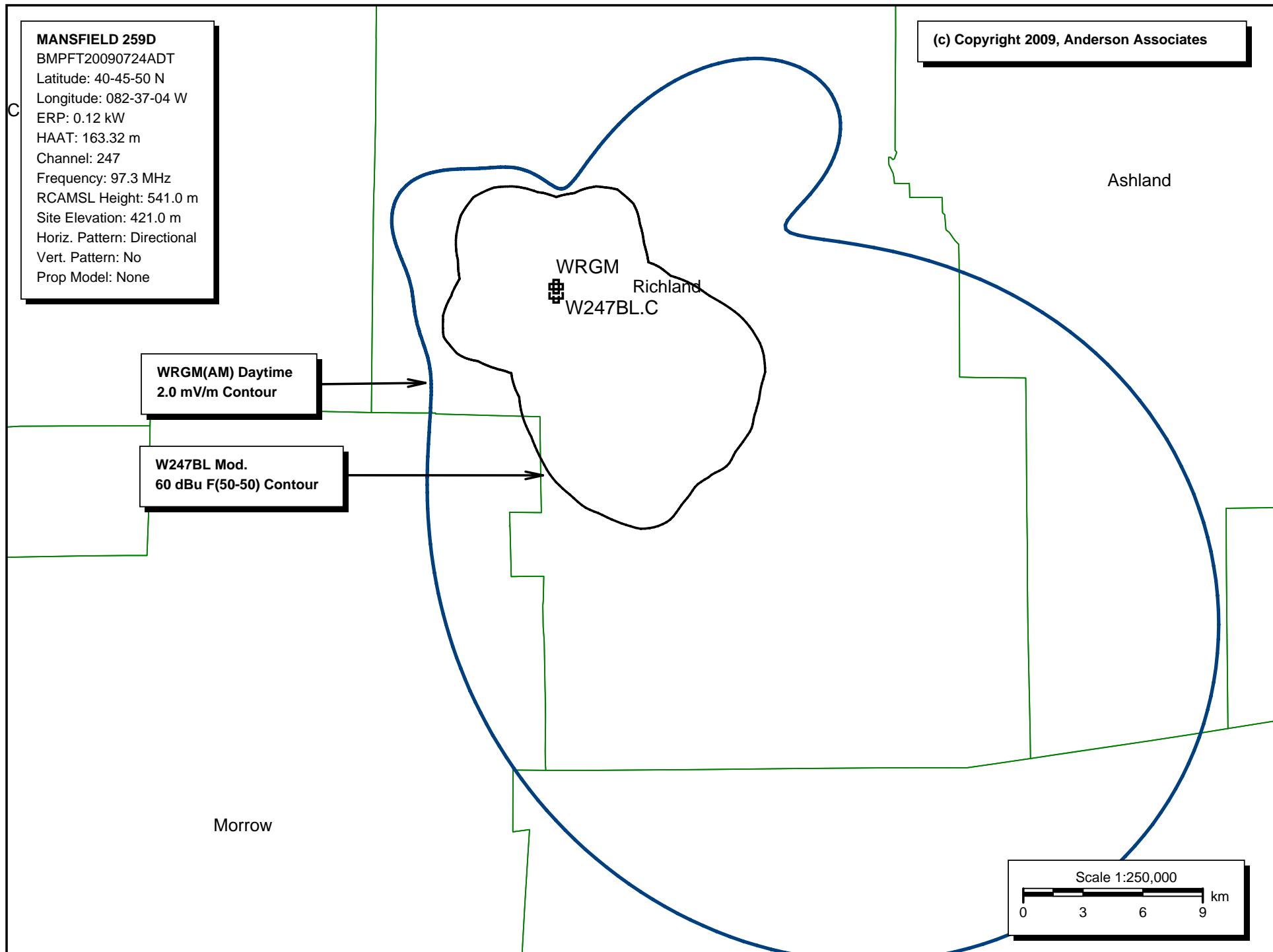
E-1 W247BL Overlap Study

REFERENCE 40 45 50.0 N. 82 37 04.0 W.		CH# 247D - 97.3 MHz, Pwr= 0.12 kW, HAAT= 161.0 M, COR= 541 M Average Protected F(50-50)= 13.66 km Standard Directional	DISPLAY DATES DATA 09-26-09 SEARCH 10-02-09	
CH CITY	CALL	TYPE ANT STATE AZI <-- DIST FILE #	LAT LNG	PWR(kW) HAAT(M) INT(km) COR(M) PRO(km) LICENSEE *IN* (Overlap in km) *OUT*
247D	W247BL Crestline	LIC DC_ OH 0.0 0.0 BLFT20090921ACQ	40 45 50.0 82 37 04.0	0.120 18.5 541 5.4 Gsm Medi a Corporati on -23.5* -22.3*
245A	WLRD Willard	LIC _CX OH 359.3 21.8 BMLH20030711AAD	40 57 36.0 82 37 16.0	6.000 2.4 422 24.4 Christian Fai th Broadcast, -2.7*<(1)
247A	WJZE Oak Harbor	LIC ZCX OH 319.8 103.4 BLH20061207AAU	41 28 19.0 83 25 05.0	4.300 83.1 307 27.4 Urban Radi o Li censes, Llc 14.0 54.3
246B	WBNS-FM Columbus	LIC _CN OH 201.6 94.7 BLH19850125LM	39 58 16.0 83 01 40.0	20.500 75.3 484 63.8 Radi ohi o, Incorporated 14.1 20.4
248B	WONE-FM Akron	LIC _C_ OH 68.6 93.4 BLH20010810AAQ	41 03 53.0 81 34 59.0	12.000 71.6 589 61.2 Rubber Ci ty Radi o Group, I 16.8 21.9
250B	WNCI Columbus	LIC DEX OH 200.4 94.1 BMLH20080128AAW	39 58 10.0 83 00 10.0	175.000 7.0 418 71.2 Ci tasters Li censes, Inc. 81.7 22.6
248L1	WDCM-LP Mari on	LIC ___ OH 248.9 46.4 BLL20050429AEM	40 36 46.0 83 07 48.0	0.045 6.6 327 4.6 The U. s. Open Juniors 33.9 33.3 Drum
247B	WKWK-FM Wheeling	LIC _CN WV 113.9 178.7 BLH19801203AF	40 05 49.0 80 42 06.0	50.000 131.6 456 58.2 Capstar Tx Limited Partner 35.8 68.2
244B1	WKOV-FM Frazeyburg	CP _CX OH 155.4 90.0 BPH20070405ABF	40 01 36.0 82 10 38.0	11.500 4.0 427 45.5 Jackson County Broadcastin 73.3 43.5
249A	WGGN Castalia	LIC _CN OH 348.3 71.8 BLH19860724KB	41 23 48.0 82 47 31.0	0.640 1.6 416 23.0 Christian Fai th Broadcast, 64.9 48.7
244C1	CHYR-FM Leamington	LIC _C_ ON 1.9 138.4 BLH19860724KB	42 00 35.0 82 33 45.0	100.000 10.2 475 86.8 123.3 51.4
300A	WVMX Westerville	LIC _CX OH 204.7 63.4 BLH20090511ASY	40 14 41.5 82 55 49.1	3.000 0.0 439 0.0 Franklin Communicat ions, I 9.5R 53.9M

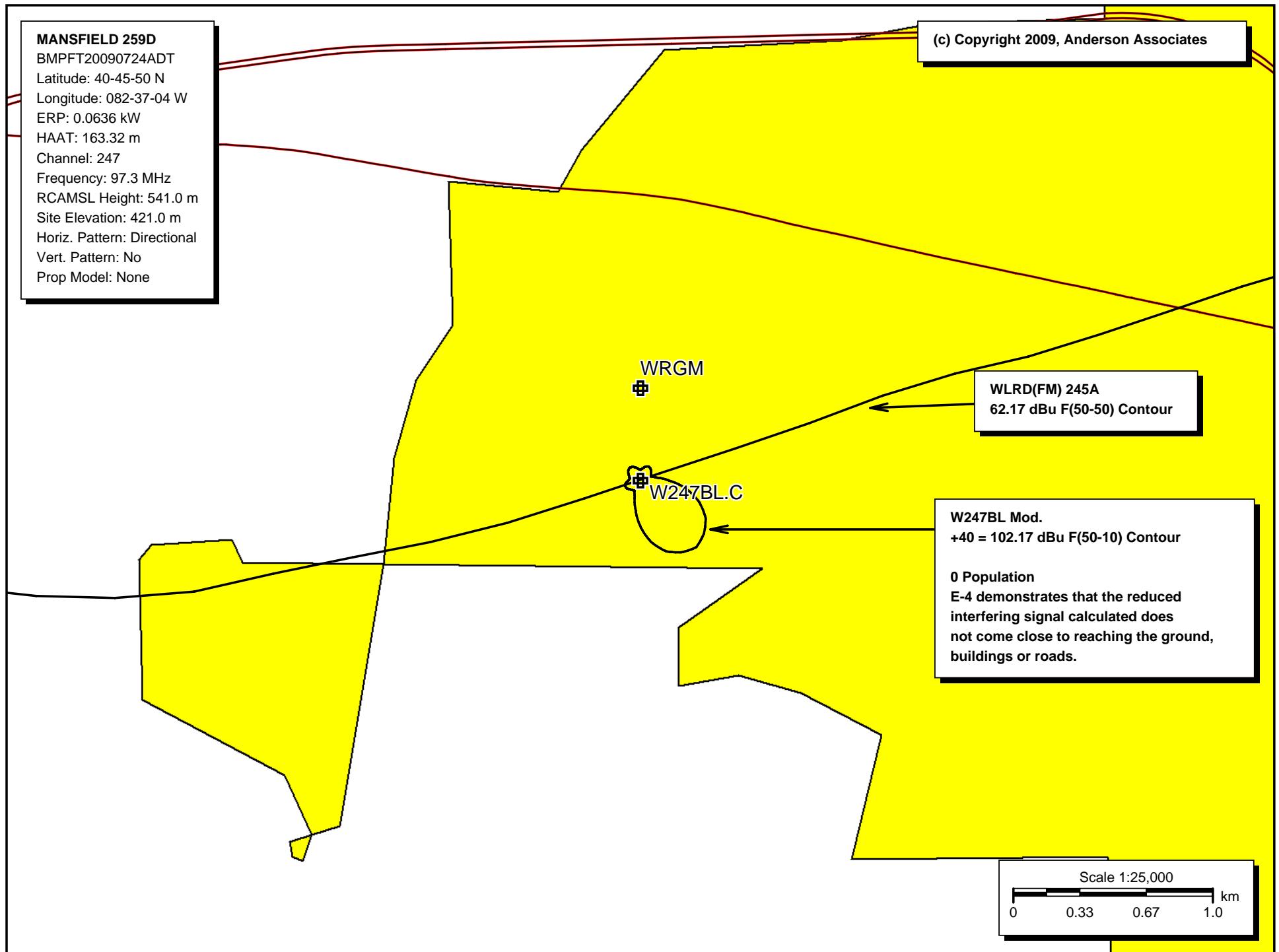
(1) See technical report for interference calculations showing that no actual interference occurs to WLRD.

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM Contour distances are on direct line to and from reference station. Reference zone = 1, C0 to 3rd adjacent. Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C, H, V, E), Beamtilt(Y, N, X) **"affixed to 'IN' or 'OUT' values = site inside protected contour. Reference station has protected zone issue: AM tower

E-2 W247BL Mod. Coverage Plot



E-3 W247BL Mod. Interference Plot to WLRD(FM) 245A



E4 INTERFERENCE CALCULATION

Depression	Vertical	120AGL(m)	F2 X 0.120 kW	Line of Sight	Actual F(50,10)	Distance to 102.17 dBu
Angle	F Factor	111 - 9 meters	Reduced Vertical ERP	Distance	Contour (dBu)	F(50-10) Contour (km)
9	0.872	111	0.0912	0.7096	99.50	0.5218
10	0.847	111	0.0860	0.6392	100.15	0.5067
11	0.819	111	0.08050	0.5817	100.68	0.4902
12	0.790	111	0.0749	0.5339	101.12	0.4723
13	0.759	111	0.0691	0.4934	101.45	0.4542
14	0.728	111	0.0636	0.4588	101.72	0.4357
15	0.695	111	0.0580	0.4289	101.91*	0.4161
16	0.660	111	0.0523	0.4027	102.01*	0.3951
17	0.624	111	0.0467	0.37965	102.02*	0.3734
18	0.588	111	0.0415	0.3592	101.99*	0.3520
19	0.551	111	0.0364	0.3409	101.88	0.3296
20	0.514	111	0.0317	0.3245	101.71	0.3076
21	0.475	111	0.0271	0.3097	101.43	0.2844
22	0.436	111	0.0228	0.2963	101.07	0.2609
23	0.397	111	0.0189	0.2841	100.62	0.2375
24	0.359	111	0.0155	0.2729	100.10	0.2151
25	0.321	111	0.0124	0.2626	99.47	0.1924
26	0.284	111	0.0010	0.2532	98.85	0.1728
27	0.248	111	0.0074	0.2445	97.85	0.1486
28	0.213	111	0.0054	0.2364	96.78	0.1270
29	0.179	111	0.0038	0.2290	95.52	0.1065
30	0.146	111	0.0026	0.2220	94.14	0.0881
31	0.114	111	0.0016	0.2155	92.29	0.0691
32	0.083	111	0.0008	0.2095	89.53	0.0489
33	0.055	111	0.0004	0.2038	86.75	0.0346
34	0.027	111	0.0001	0.1985	80.97	0.0173
35	0.010	111	0.0000	0.1935	0.00	0.0000
36	0.022	111	0.0001	0.1888	81.40	0.0173
37	0.044	111	0.0002	0.1844	84.62	0.0244
38	0.063	111	0.0008	0.1803	90.83	0.0489
39	0.082	111	0.0008	0.1764	91.02	0.0489
40	0.098	111	0.0012	0.1727	92.97	0.0599
41	0.112	111	0.0015	0.1692	94.11	0.0669
42	0.124	111	0.0019	0.1659	95.31	0.0753
43	0.134	111	0.0022	0.1628	96.11	0.0810
44	0.143	111	0.0025	0.1598	96.83	0.0864
45	0.150	111	0.0027	0.1598	97.16	0.0898
46	0.156	111	0.0029	0.1543	97.78	0.0930
47	0.160	111	0.0031	0.1518	98.21	0.0962
48	0.163	111	0.0032	0.1494	98.49	0.0978
49	0.164	111	0.0032	0.1494	98.49	0.0977
50	0.164	111	0.0032	0.1449	98.75	0.0977
51	0.164	111	0.0032	0.1428	98.88	0.0977
52	0.163	111	0.0032	0.1409	98.99	0.0977
53	0.161	111	0.0031	0.1390	98.97	0.0962
54	0.157	111	0.0030	0.1372	98.94	0.0946
55	0.153	111	0.0028	0.1355	98.75	0.0914
56	0.151	111	0.0027	0.1339	98.70	0.0898
57	0.148	111	0.0026	0.1325	98.63	0.0881
58	0.144	111	0.0025	0.1309	98.56	0.0864
59	0.140	111	0.0024	0.1295	98.48	0.0846

60	0.136	111	0.0022	0.1282	98.19	0.0810
61	0.132	111	0.0021	0.1269	98.07	0.0792
62	0.127	111	0.0019	0.1257	97.72	0.0753
63	0.122	111	0.0018	0.1246	97.56	0.0733
64	0.117	111	0.0016	0.1235	97.13	0.0691
65	0.112	111	0.0015	0.1225	96.92	0.0669
66	0.112	111	0.0015	0.1215	96.99	0.0669
67	0.112	111	0.0015	0.1206	97.05	0.0669
68	0.113	111	0.0015	0.1197	97.12	0.0669
69	0.113	111	0.0015	0.1189	97.18	0.0669
70	0.113	111	0.0015	0.1181	97.24	0.0669
71	0.114	111	0.0016	0.1174	97.57	0.0691
72	0.115	111	0.0016	0.1167	97.62	0.0691
73	0.116	111	0.0016	0.1161	97.66	0.0691
74	0.117	111	0.0016	0.1155	97.71	0.0691
75	0.118	111	0.0017	0.1149	98.02	0.0712
76	0.120	111	0.0017	0.1144	98.06	0.0712
77	0.122	111	0.0018	0.1139	98.34	0.0733
78	0.124	111	0.0019	0.1135	98.61	0.0753
79	0.126	111	0.0019	0.1131	98.64	0.0753
80	0.128	111	0.0020	0.1127	98.89	0.0773
81	0.130	111	0.0020	0.1124	98.92	0.0773
82	0.131	111	0.0021	0.1121	99.15	0.0792
83	0.133	111	0.0021	0.1118	99.17	0.0792
84	0.135	111	0.0022	0.1116	99.39	0.0810
85	0.137	111	0.0023	0.1114	99.60	0.0829
86	0.139	111	0.0023	0.1113	99.61	0.0829
87	0.140	111	0.0024	0.1112	99.80	0.0846
88	0.142	111	0.0024	0.1111	99.84	0.0846
89	0.143	111	0.0025	0.1110	99.99	0.0864
90	0.144	111	0.0025	0.1110	99.99	0.0864

E4 Continued

- * Closest points to 102.17 dBu (50,10) permitted at 9 meters above ground level. All other angles of depression are significantly below the permitted level.

This table is based on the 102.17 dBu F(50-10) interfering contour calculated for WLRD 245A at the W247BL site. Starting from the 102.17 dBu F(50-10) contour, the line of sight distance was calculated at each degree geometrically, using 111 m AGL representing a plane at 9 meters above ground level for the actual 120 meter AGL radiation center. The resulting line of sight distance for each depression angle starting at 9 degrees was calculated along with the resulting F(50,10) at that point and the distance to the 102.17 dBu (50,10) maximum interfering contour. Contours were calculated using V-Soft's Contour program at each degree, and the vertical F factors were obtained from the antenna manufacturer's published data (attached).

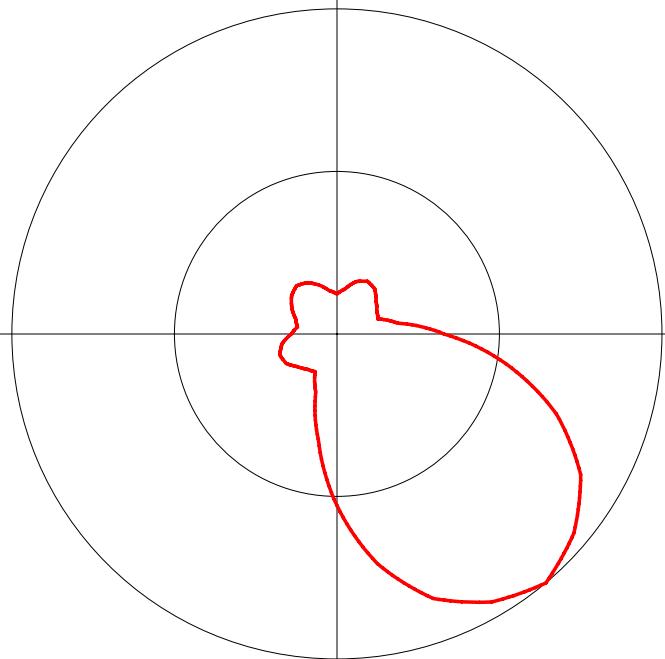
It is clear that the proposed interfering contour does not reach 102.17 dBu level even at the 9 meter plane demonstrating that interference to radio reception will not occur at any point in a road, street, building or even pedestrian area. The interfering contour never reaches the ground or even a plane 9 meters above ground. The aerial photograph shows that all buildings in the area are no more than two stories.

E-5 DA Antenna Pattern

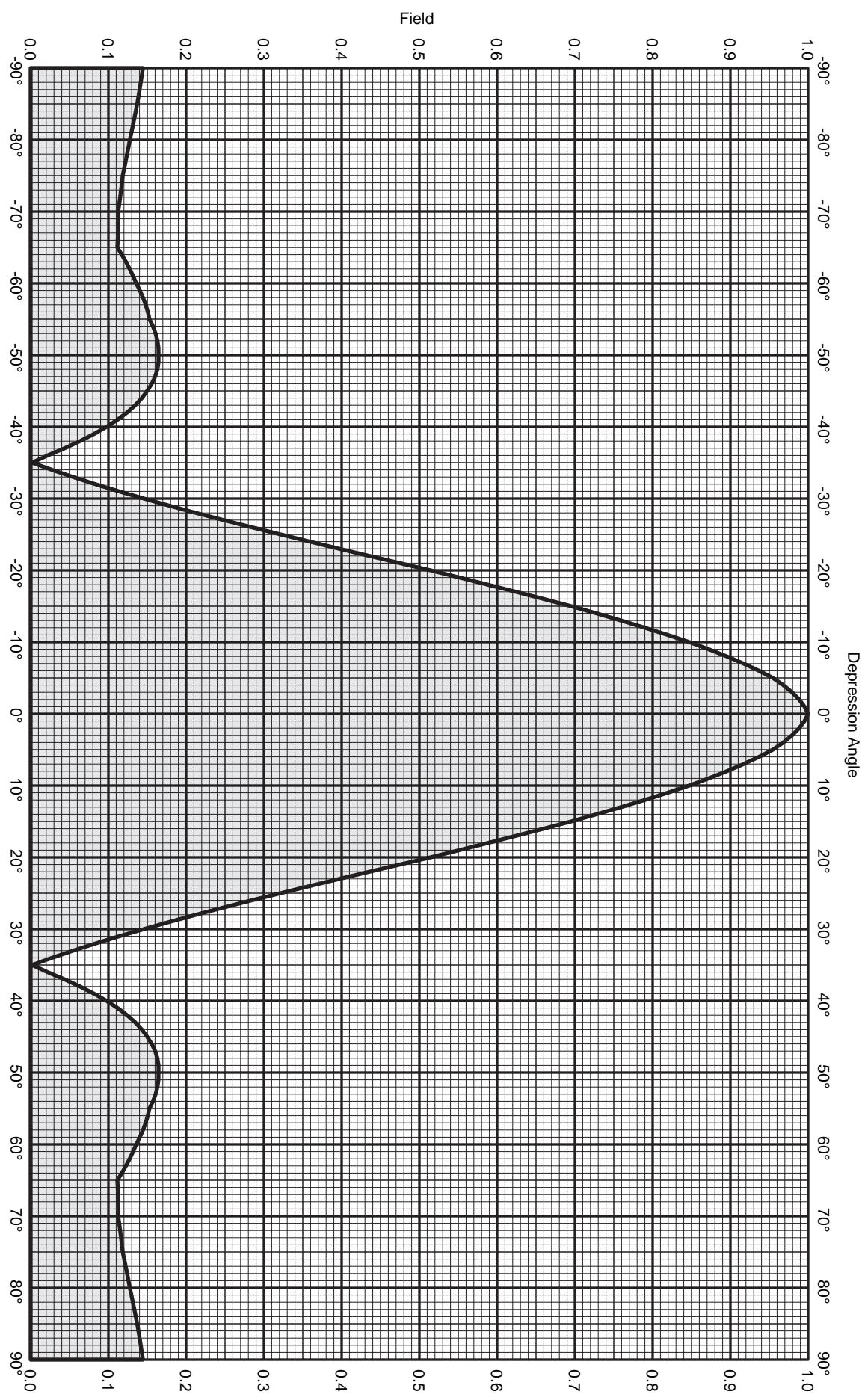
2-Scala CA5-FM 140 Degree Azimuth

Azimuth (deg)	Effective Field
0.0	0.123
10.0	0.140
20.0	0.171
30.0	0.187
40.0	0.181
50.0	0.157
60.0	0.142
70.0	0.134
80.0	0.190
90.0	0.329
100.0	0.528
110.0	0.718
120.0	0.866
130.0	0.952
140.0	1.000
150.0	0.952
160.0	0.866
170.0	0.718
180.0	0.528
190.0	0.329
200.0	0.190
210.0	0.134
220.0	0.142
230.0	0.157
240.0	0.181
250.0	0.187
260.0	0.171
270.0	0.140
280.0	0.123
290.0	0.135
300.0	0.160
310.0	0.182
320.0	0.193
330.0	0.182
340.0	0.160
350.0	0.135

Rotation Angle = 0



E-6 Scala CA5-FM/CP Vertical Elevation Pattern



Two CA5-FM/CP/RM Yagis

Oriented at horizon

Maximum array gain: 8.5 dBd

circular polarization
Elevation pattern

KATHREIN
SCALA DIVISION
Post Office Box 4580
Medford, OR 97501 (USA)
Phone: (541) 779-6500
Fax: (541) 779-3991
<http://www.kathrein-scala.com>



Two CA5-FM/CP/RM Yagis

Oriented at horizon

Maximum array gain: 8.5 dBd

Vertical stack @ .87 wavelength

Circular polarization

Elevation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.144	-16.81	-8.31	0.15	-45	0.150	-16.49	-7.99	0.16
-89	0.143	-16.89	-8.39	0.14	-44	0.143	-16.89	-8.39	0.14
-88	0.142	-16.98	-8.48	0.14	-43	0.134	-17.43	-8.93	0.13
-87	0.140	-17.07	-8.57	0.14	-42	0.124	-18.13	-9.63	0.11
-86	0.139	-17.16	-8.66	0.14	-41	0.112	-19.03	-10.53	0.09
-85	0.137	-17.26	-8.76	0.13	-40	0.098	-20.20	-11.70	0.07
-84	0.135	-17.38	-8.88	0.13	-39	0.082	-21.78	-13.28	0.05
-83	0.133	-17.50	-9.00	0.13	-38	0.063	-23.95	-15.45	0.03
-82	0.131	-17.62	-9.12	0.12	-37	0.044	-27.23	-18.73	0.01
-81	0.130	-17.75	-9.25	0.12	-36	0.022	-33.27	-24.77	0.00
-80	0.128	-17.89	-9.39	0.12	-35	0.010	-40.00	-31.50	0.00
-79	0.126	-18.00	-9.50	0.11	-34	0.027	-31.23	-22.73	0.01
-78	0.124	-18.13	-9.63	0.11	-33	0.055	-25.26	-16.76	0.02
-77	0.122	-18.26	-9.76	0.11	-32	0.083	-21.58	-13.08	0.05
-76	0.120	-18.39	-9.89	0.10	-31	0.114	-18.88	-10.38	0.09
-75	0.118	-18.54	-10.04	0.10	-30	0.146	-16.73	-8.23	0.15
-74	0.117	-18.61	-10.11	0.10	-29	0.179	-14.97	-6.47	0.23
-73	0.116	-18.69	-10.19	0.10	-28	0.213	-13.45	-4.95	0.32
-72	0.115	-18.78	-10.28	0.09	-27	0.248	-12.12	-3.62	0.43
-71	0.114	-18.87	-10.37	0.09	-26	0.284	-10.93	-2.43	0.57
-70	0.113	-18.97	-10.47	0.09	-25	0.321	-9.86	-1.36	0.73
-69	0.113	-18.97	-10.47	0.09	-24	0.359	-8.90	-0.40	0.91
-68	0.113	-18.97	-10.47	0.09	-23	0.397	-8.02	0.48	1.12
-67	0.112	-18.99	-10.49	0.09	-22	0.436	-7.21	1.29	1.34
-66	0.112	-19.02	-10.52	0.09	-21	0.475	-6.47	2.03	1.60
-65	0.112	-19.05	-10.55	0.09	-20	0.514	-5.77	2.73	1.87
-64	0.117	-18.62	-10.12	0.10	-19	0.551	-5.17	3.33	2.15
-63	0.122	-18.24	-9.74	0.11	-18	0.588	-4.61	3.89	2.45
-62	0.127	-17.90	-9.40	0.11	-17	0.624	-4.09	4.41	2.76
-61	0.132	-17.60	-9.10	0.12	-16	0.660	-3.61	4.89	3.08
-60	0.136	-17.34	-8.84	0.13	-15	0.695	-3.16	5.34	3.42
-59	0.140	-17.05	-8.55	0.14	-14	0.728	-2.76	5.74	3.75
-58	0.144	-16.80	-8.30	0.15	-13	0.759	-2.39	6.11	4.08
-57	0.148	-16.60	-8.10	0.15	-12	0.790	-2.05	6.45	4.42
-56	0.151	-16.44	-7.94	0.16	-11	0.819	-1.73	6.77	4.75
-55	0.153	-16.32	-7.82	0.17	-10	0.847	-1.44	7.06	5.08
-54	0.157	-16.07	-7.57	0.18	-9	0.872	-1.19	7.31	5.38
-53	0.161	-15.88	-7.38	0.18	-8	0.895	-0.96	7.54	5.68
-52	0.163	-15.75	-7.25	0.19	-7	0.917	-0.75	7.75	5.95
-51	0.164	-15.68	-7.18	0.19	-6	0.937	-0.57	7.93	6.21
-50	0.164	-15.68	-7.18	0.19	-5	0.955	-0.40	8.10	6.45
-49	0.164	-15.68	-7.18	0.19	-4	0.968	-0.28	8.22	6.63
-48	0.163	-15.76	-7.26	0.19	-3	0.979	-0.18	8.32	6.79
-47	0.160	-15.91	-7.41	0.18	-2	0.988	-0.10	8.40	6.92
-46	0.156	-16.15	-7.65	0.17	-1	0.995	-0.04	8.46	7.01
					0	1.000	0.00	8.50	7.08



Two CA5-FM/CP/RM Yagis

Oriented at horizon

Maximum array gain: 8.5 dBd

Vertical stack @ .87 wavelength

Circular polarization

Elevation pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	8.50	7.08	45	0.150	-16.49	-7.99	0.16
1	0.995	-0.04	8.46	7.01	46	0.156	-16.15	-7.65	0.17
2	0.988	-0.10	8.40	6.92	47	0.160	-15.91	-7.41	0.18
3	0.979	-0.18	8.32	6.79	48	0.163	-15.76	-7.26	0.19
4	0.968	-0.28	8.22	6.63	49	0.164	-15.68	-7.18	0.19
5	0.955	-0.40	8.10	6.45	50	0.164	-15.68	-7.18	0.19
6	0.937	-0.57	7.93	6.21	51	0.164	-15.68	-7.18	0.19
7	0.917	-0.75	7.75	5.95	52	0.163	-15.75	-7.25	0.19
8	0.895	-0.96	7.54	5.68	53	0.161	-15.88	-7.38	0.18
9	0.872	-1.19	7.31	5.38	54	0.157	-16.07	-7.57	0.18
10	0.847	-1.44	7.06	5.08	55	0.153	-16.32	-7.82	0.17
11	0.819	-1.73	6.77	4.75	56	0.151	-16.44	-7.94	0.16
12	0.790	-2.05	6.45	4.42	57	0.148	-16.60	-8.10	0.15
13	0.759	-2.39	6.11	4.08	58	0.144	-16.80	-8.30	0.15
14	0.728	-2.76	5.74	3.75	59	0.140	-17.05	-8.55	0.14
15	0.695	-3.16	5.34	3.42	60	0.136	-17.34	-8.84	0.13
16	0.660	-3.61	4.89	3.08	61	0.132	-17.60	-9.10	0.12
17	0.624	-4.09	4.41	2.76	62	0.127	-17.90	-9.40	0.11
18	0.588	-4.61	3.89	2.45	63	0.122	-18.24	-9.74	0.11
19	0.551	-5.17	3.33	2.15	64	0.117	-18.62	-10.12	0.10
20	0.514	-5.77	2.73	1.87	65	0.112	-19.05	-10.55	0.09
21	0.475	-6.47	2.03	1.60	66	0.112	-19.02	-10.52	0.09
22	0.436	-7.21	1.29	1.34	67	0.112	-18.99	-10.49	0.09
23	0.397	-8.02	0.48	1.12	68	0.113	-18.97	-10.47	0.09
24	0.359	-8.90	-0.40	0.91	69	0.113	-18.97	-10.47	0.09
25	0.321	-9.86	-1.36	0.73	70	0.113	-18.97	-10.47	0.09
26	0.284	-10.93	-2.43	0.57	71	0.114	-18.87	-10.37	0.09
27	0.248	-12.12	-3.62	0.43	72	0.115	-18.78	-10.28	0.09
28	0.213	-13.45	-4.95	0.32	73	0.116	-18.69	-10.19	0.10
29	0.179	-14.96	-6.46	0.23	74	0.117	-18.61	-10.11	0.10
30	0.146	-16.73	-8.23	0.15	75	0.118	-18.54	-10.04	0.10
31	0.114	-18.88	-10.38	0.09	76	0.120	-18.39	-9.89	0.10
32	0.083	-21.58	-13.08	0.05	77	0.122	-18.26	-9.76	0.11
33	0.055	-25.26	-16.76	0.02	78	0.124	-18.13	-9.63	0.11
34	0.027	-31.23	-22.73	0.01	79	0.126	-18.00	-9.50	0.11
35	0.010	-40.00	-31.50	0.00	80	0.128	-17.89	-9.39	0.12
36	0.022	-33.27	-24.77	0.00	81	0.130	-17.75	-9.25	0.12
37	0.044	-27.23	-18.73	0.01	82	0.131	-17.62	-9.12	0.12
38	0.063	-23.95	-15.45	0.03	83	0.133	-17.50	-9.00	0.13
39	0.082	-21.78	-13.28	0.05	84	0.135	-17.38	-8.88	0.13
40	0.098	-20.20	-11.70	0.07	85	0.137	-17.26	-8.76	0.13
41	0.112	-19.03	-10.53	0.09	86	0.139	-17.16	-8.66	0.14
42	0.124	-18.13	-9.63	0.11	87	0.140	-17.07	-8.57	0.14
43	0.134	-17.43	-8.93	0.13	88	0.142	-16.98	-8.48	0.14
44	0.143	-16.89	-8.39	0.14	89	0.143	-16.89	-8.39	0.14
					90	0.144	-16.81	-8.31	0.15

E-7 AERIAL PHOTO 82°37'30"

363000

82°37'15"

363500

82°37'0"

82°36'45"

364000

82°36'30"



82°37'30"

82°37'15"

363500

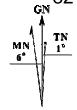
82°36'45"

364000

82°36'30"

1:10000 Scale
0 200 400 600 800 1000 Feet
0 100 200 300 Meters

Universal Transverse Mercator (UTM) Projection Zone17
North American Datum of 1983 (NAD83)
UTM Grid shown in Blue



Magnetic declination at center of map on
September 17, 2009

E-8 W247BL ASR

ASR Registration Search

Registration 1013230

 [Map Registration](#)

Registration Detail

Reg Number	1013230	Status	Constructed
File Number	A0015853	Constructed	03/04/1990
FAA Study	89-AGL-379-OE	EMI	No
FAA Issue Date	08/21/1989	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long 40-45-50.0 N 082-37-04.0 W 2900 PARK AVE W

City, State ONTARIO , OH

Center of AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level Overall Height Above Ground (AGL)

420.6 143.9

Overall Height Above Mean Sea Level Overall Height Above Ground w/o Appurtenances

564.5 143.9

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 9

Paint and Light in Accordance with FAA Circular Number 70/7460-1G

Owner & Contact Information

FRN Licensee ID

Owner

MID STATE TELEVISION INC
Attention To: GUNTHER MEISSE
2900 PARK AVE W
MANSFIELD , OH 44906

P: (419)529-5900

E:

Contact

P:

E:

Last Action Status

Status	Constructed	Received	02/06/1997
Purpose	New	Entered	02/07/1997
Mode	Mail In (Manual)		

Related Applications

02/06/1997 A0015853 - New (NE)

Comments

Comments

None

Automated Letters

None