

AMENDMENT

Trignition Media LLC, licensee of WRYM, FI, 26314, New Britain, Connecticut, hereby amends its application, BP-20220630AAD:

1. To supply missing tabulation data that was inadvertently omitted from the original filing.
2. To supply additional field strength measurements.

AMENDMENT

Trignition Media LLC, licensee of WRYM, FI 26314, New Britain,
Connecticut, hereby amends its pending application BP-20220630AAD
with the attached material.


David Webster

9-8-2022
DATE

ENGINEERING REPORT COVERING
OPPOSITION TO INFORMAL OBJECTION
TRIGNITION MEDIA, LLC
FOR WRYM 840 KILOHERTZ
NEW BRITAIN, CONNECTICUT

SEPTEMBER 2022

ENGINEERING REPORT COVERING
OPPOSITION TO INFORMAL OBJECTION
TRIGNITION MEDIA, LLC
FOR WRYM 840 KILOHERTZ
NEW BRITAIN, CONNECTICUT

SUMMARY

The engineering exhibit of which this statement is part was prepared on behalf of Trignition Media, LLC., hereinafter referred to as “Trignition”, in support of an opposition to an informal objection filed by Carter Broadcasting Corporation, hereinafter referred to as “Carter” to construction permit application BP-20220630AAD for AM station WRYM New Britain, Connecticut. Trignition is the licensee of WRYM and Carter is the licensee of WCRN. WRYM is licensed to operate as a Class D station on a frequency of 840 kilohertz on an unlimited time basis utilizing a non-directional antenna system with power of 1 kilowatt daytime and a directional antenna with power of .125 kilowatts nighttime. WCRN operates as a Class B station on a frequency of 830 kilohertz with fulltime power of 50 kilowatts utilizing a dual mode directional antenna system. Trignition is requesting a daytime power increase, converting to daytime directional operating and broadcasting with a dual mode directional antenna system. Requested power is 3.5 kilowatts for the daytime proposal. No changes to the nighttime operation are proposed.

CARTER OBJECTION

Carter's objection claims field measurement tabulations were not submitted to document the measured soil conductivities utilized in the WRYM allocation analysis and prohibited contour overlap will be created between WRYM and WCRN. The following paragraphs will fully address Carter's objections.

FIELD MEASUREMENT TABULATIONS

Complete field measurement tabulations were provided with the Comprehensive Engineering Exhibit and referenced in the WRYM engineering report as Tables 1-5. For reasons unknown, Tables 1-5 were lost in the application filing process and not included with the application. Tables 1-5 are attached to this exhibit and provide complete measurement data.

PROHIBITED CONTOUR OVERLAP

In order to demonstrate Trignition's application will not create prohibited contour overlap, additional field strength measurement data was obtained for the WRYM 68.1 degree radial and for the WCRN 249.5 degree radial. For both radials, the measurements were extended to ensure the distance to the contours of interest was accurately defined. Measurement tabulations are provided in Tables 6 and 7. The measurements are plotted on Figures 12 and 13. The field strength meter used for the measurements was a Potomac Instruments FIM-21, serial number 1131. This meter was

compared to a similar meter of recent calibration and found to be in substantial agreement on all pertinent measurement scales. The measurements were taken by Dennis Jackson, who has considerable experience taking field measurements for FCC projects, under the direction of the undersigned.

Figure 2, the adjacent channel allocation map submitted with the WRYM application, has been revised to include the additional measurement data included in the Carter objection as well as the new measurement data provided in this opposition. This map shows no prohibited contour overlap would be caused to WCRN or WRYM. Therefore, the Trignition application should be granted.

DECLARATION

The foregoing was prepared by or under the immediate supervision of Charles A. Hecht of Charles A. Hecht & Associates, Inc., Freehold, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. All statements herein are true and correct of his knowledge except such statements made on information and belief, and as to those statements, he believes them to be true and correct under the penalty of perjury.

Respectfully submitted,

Charles A. Hecht

Charles A. Hecht
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September 7, 2022

TABLE 1

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

JUNE 2022

5 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u> 7/7/2021	<u>Field mV/m</u>
1	0.48	1829	430
2	1.09	1826	210
3	1.49	1820	135
4	2.27	1812	92.0
5	2.95	1801	67.0
6	3.72	1756	49.0
7	4.03	1752	40.0
8	4.47	1747	38.0
9	4.96	1737	32.0
10	5.61	1730	31.0
11	6.19	1724	30.0
12	6.89	1717	21.0
13	7.60	1713	21.0
14	7.63	1709	19.5
15	8.00	1703	20.0
16	8.48	1659	16.0
17	8.91	1652	17.0
18	9.45	1648	16.5
19	9.68	1642	17.5
20	10.09	1634	13.5

5 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		7/7/2021	
21	10.11	1628	11.8
22	10.66	1619	10.5
23	11.86	1610	9.60
24	12.32	1607	9.60
25	12.58	1902	9.80
26	12.72	1540	10.0
27	14.56	1527	6.20
28	15.32	1518	6.70
29	16.60	1510	5.00
30	18.64	1500	2.40
31	22.80	1442	1.40
32	25.90	1426	1.05
		6/24/2021	
33	34.10	1119	0.56
34	42.50	1154	0.38
35	54.80	1208	0.17
36	66.30	1243	0.11
37	72.60	1326	0.65
38	73.30	1307	0.46
39	77.30	1348	0.50

TABLE 2

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

JUNE 2022

25 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		7/7/2021	
1	0.22	1848	920
2	0.37	1906	510
3	0.45	1843	510
4	0.77	1913	270
5	0.90	1917	220
6	1.04	1923	240
7	1.13	1927	200
8	1.29	1930	180
9	1.37	1941	170
10	1.47	1944	145
11	1.64	1950	105
12	1.75	1954	115
13	1.84	1956	115
		7/10/2021	
14	1.90	1018	110
15	1.98	1958	100
16	2.04	1022	85.0
17	2.15	1027	72.0
18	2.25	1035	70.0
19	2.33	1038	71.0
20	2.59	1154	0.68

25 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local) 9/12/2021</u>	<u>Field mV/m</u>
21	2.60	1043	72.0
22	2.73	1051	74.0
23	2.81	1054	76.0
24	3.41	1059	56.0
25	3.69	1102	52.0
26	4.07	1106	36.0
27	4.48	1112	38.0
28	5.00	1120	22.5
29	5.40	1124	25.5
30	5.86	1130	24.0
31	6.17	1134	22.0
32	6.71	1137	22.0
33	7.02	1144	17.0
34	7.44	1149	17.0
35	7.74	1153	14.0
36	8.05	1159	15.0
37	8.32	1207	12.5
38	9.33	1220	8.00
39	10.20	1241	10.0
40	10.84	1249	10.5
41	11.62	1254	10.0
42	12.88	1300	8.20
43	14.00	1308	5.50
44	14.60	1316	5.40
45	15.66	1327	5.30
46	17.47	1333	4.80
47	25.21	1408	1.20
48	29.85	1419	0.58
49	32.61	1431	0.41

25 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u> 6/24/2021	<u>Field mV/m</u>
50	33.80	1744	0.47
51	36.90	1708	0.22
52	38.58	1500	0.31
53	42.50	1652	0.29
54	44.29	1515	0.21
55	46.78	1527	0.15
56	48.80	1536	0.19
57	53.50	1619	0.096
58	57.80	1554	0.093
59	62.00	1544	0.068
60	66.52	1607	0.069
61	69.90	1619	0.037

TABLE 3

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

JUNE 2022

45 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		7/11/2021	
1	0.68	1122	300
2	1.61	1116	150
3	2.17	1107	64.0
4	2.83	1057	39.0
5	3.59	1049	33.0
6	4.52	1040	29.0
7	5.18	1029	24.0
8	5.97	1020	21.5
9	6.69	1013	19.0
10	7.53	1006	15.0
11	8.01	951	13.5
12	8.56	945	11.5
13	9.07	937	12.5
		7/10/2021	
14	9.98	1755	10.5
15	10.62	1748	9.80
16	11.29	1742	8.80
17	11.88	1735	9.70
18	12.44	1730	9.80
19	13.30	1723	9.80
20	16.15	1707	5.00

45 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		9/11/2021	
21	18.64	1650	2.40
22	20.50	1639	2.70
23	22.50	1627	1.25
24	25.00	1613	1.05
25	27.30	1603	0.65
26	30.00	1554	0.75
27	31.10	1542	0.87
28	32.70	1537	0.77
		6/24/2021	
29	41.30	906	0.195
30	44.20	914	0.120
31	48.60	927	0.090
32	56.40	945	0.115
33	59.70	956	0.082
34	67.20	1011	0.042

TABLE 4

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

JUNE 2022

65 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u> 7/11/2021	<u>Field mV/m</u>
1	0.33	1136	700
2	0.54	1142	360
3	0.76	1151	225
4	0.89	1201	195
5	1.17	1207	155
6	1.32	1211	135
7	1.52	1214	125
8	1.60	1217	125
9	1.90	1223	105
10	2.14	1241	76.0
11	2.33	1246	73.0
12	2.79	1257	55.0
13	2.86	1303	46.0
14	3.00	1306	51.0
15	3.09	1310	48.0
16	3.22	1316	46.0
17	3.37	1319	46.0
18	3.50	1323	43.0
19	4.57	1331	32.5
20	5.11	1337	25.5

65 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		7/11/2021	
21	6.06	1344	18.0
22	7.08	1350	21.0
23	7.34	1357	14.5
24	9.58	1421	10.0
25	11.41	1411	7.90
26	12.00	1433	6.00
27	12.46	1437	6.10
28	13.21	1445	5.40
29	14.51	1454	4.30
30	17.25	1503	2.10
31	18.27	1513	1.65
32	21.07	1521	1.00
33	25.51	1537	0.28
34	26.45	1550	0.34
35	30.57	1623	0.40
36	33.31	1631	0.34
		6/26/2021	
37	38.50	1342	0.15
38	42.30	1358	0.11
39	47.10	1418	0.11
40	47.90	1412	0.11
41	51.40	1427	0.066
42	59.80	1440	0.045
43	68.00	1453	0.043

TABLE 5

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

JUNE 2022

85 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u> 7/11/2021	<u>Field mV/m</u>
1	0.89	1259	230
2	1.47	1256	140
3	2.22	1253	85.0
4	3.03	1249	43.0
5	3.89	1244	43.0
6	5.13	1240	30.0
7	5.84	1237	23.0
8	6.24	1227	19.0
9	10.04	1214	10.0
10	10.23	1205	11.0
11	10.40	1208	10.5
12	10.90	1158	9.50
13	11.68	1154	6.80
14	11.85	1151	5.60
15	12.09	1145	6.60
16	12.40	1140	6.20
17	12.70	1134	4.10
18	13.14	1129	4.50
19	13.56	1124	5.80
20	13.89	1120	5.90

85 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local)</u>	<u>Field mV/m</u>
		7/11/2021	
21	14.06	1118	5.40
22	14.30	1113	4.30
23	14.55	1110	3.40
24	15.20	1100	1.85
25	16.10	1055	1.90
26	16.60	1049	1.70
27	18.73	1042	1.55
28	21.70	1033	0.80
29	23.70	1029	0.70
30	24.20	1026	0.64
31	24.40	1023	0.47
32	26.76	1018	0.50
33	28.74	1011	0.49
34	30.40	955	0.27
		6/26/2021	
35	33.00	1819	0.23
36	37.50	1808	0.18
37	43.30	1733	0.16
38	47.10	1711	0.11
39	50.30	1701	0.088
40	54.80	1642	0.095
41	64.20	1611	0.052
42	68.80	1558	0.034

TABLE 6

FIELD STRENGTH MEASUREMENTS

1 KW DAYTIME NON-DIRECTIONAL

WRYM 840 KILOHERTZ

NEW BRITAIN, CONNECTICUT

SEPTEMBER 2022

68.1 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local) 9/4/2022</u>	<u>Field mV/m</u>
1	35.70	1207	0.270
2	39.16	1221	0.210
3	45.19	1234	0.150
4	50.27	1248	0.087
5	53.51	1303	0.098
6	61.04	1323	0.079
7	64.97	1338	0.078
8	69.12	1359	0.051

TABLE 7

FIELD STRENGTH MEASUREMENTS

50 KW DAYTIME DIRECTIONAL

WCRN 830 KILOHERTZ

WORCESTER, MASSACHUSETTS

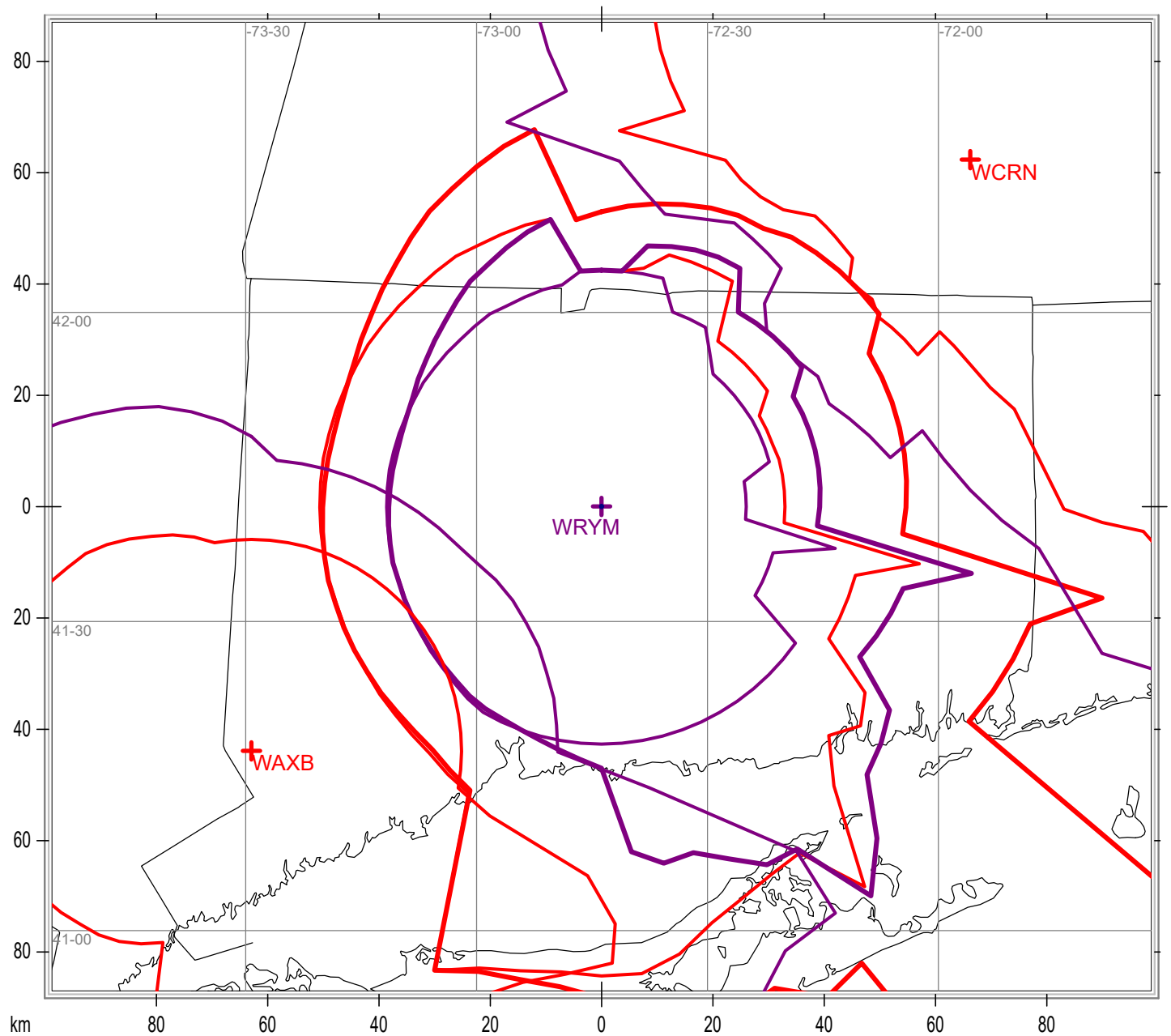
SEPTEMBER 2022

249.5 DEGREES TRUE RADIAL

<u>Point Number</u>	<u>Distance km</u>	<u>Date/Time (local) 9/3/2022</u>	<u>Field mV/m</u>
1	25.33	1240	0.140
2	27.91	1259	0.070
3	29.35	1312	0.050
4	31.39	1325	0.070
5	32.93	1336	0.070
6	35.31	1403	0.052
7	41.24	1417	0.047
8	46.10	1429	0.030
9	52.90	1454	0.025
10	57.28	1520	0.018
11	60.40	1544	0.019

FIG 2 - REVISED DAY ADJ CHANNEL ALLOCATION STUDY

SHOWING .5 AND .25 MV/M CONTOURS, PROPOSED WRYM IN BOLDFACE



WRYM 840 KILOHERTZ 3.5 KW DA NEW BRITAIN, CONNECTICUT

State Borders Lat/Lon Grid

