

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 54dBu contour of third adjacent channel station WEBE, channel 300B, Westport, CT. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for W297AN.P:	100 watts
The proposed COR for W297ANP:	76 meters
WEBE F(50/50) contour at proposed site:	62.4dBu
The F(50/10) contour of proposed new W297AN.P:	102.4dBu

The predicted distance to the 102.4dbu interfering contour is 532 meters. Exhibit 13-A1 demonstrates the distances to the interfering contour by taking into account the vertical elevation pattern of the PSI FML 3 bay .625 waved spaced antenna. It has been determined that the interfering contour of 102.4dbu does not extend to any regularly occupied structures.

As seen in attachment 13-A2, the 102.4dbu red contour encompasses four areas of potential interference to occupied structures. Each of these four areas have been studied taking into account the Vertical Elevation Pattern of the specified antenna along with the distance from the base of the tower, the difference in terrain elevation, and the distance from the antenna. Exhibit 13-A3 is a compilation of these parameters with the resulting margin of headroom seen in the last column. Note that all areas of concern within the 102.4dbu interfering contour are protected from interference.

Therefore, the Berkshire Broadcasting Corporation respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 13 - A1  
74.1204(d) Showing  
W297AN  
Danbury, CT

ERP (kw): 0.1  
Height of Antenna above Ground (m): 76  
Translator's IX Contour: 102.4  
Antenna Type: PSI FML 3 bay .625 wave

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.1000	532.1083	76.000
5	0.958	0.0918	509.7597	31.572
10	0.838	0.0702	445.9067	-1.431
15	0.661	0.0437	351.7236	-15.033
20	0.454	0.0206	241.5771	-6.624
25	0.248	0.0062	131.9628	20.230
30	0.067	0.0004	35.6513	58.174
35	0.071	0.0005	37.7797	54.330
40	0.161	0.0026	85.6694	20.933
45	0.205	0.0042	109.0822	-1.133
50	0.210	0.0044	111.7427	-9.600
55	0.190	0.0036	101.1006	-6.817
60	0.155	0.0024	82.4768	4.573
65	0.117	0.0014	62.2567	19.576
70	0.080	0.0006	42.5687	35.999
75	0.051	0.0003	27.1375	49.787
80	0.029	0.0001	15.4311	60.803
85	0.013	0.0000	6.9174	69.109
90	0.001	0.0000	0.5321	75.468



Google earth

feet  
meters

2000

700



W297AN Danbury, CT

NAD 27

41 22' 27.0" N

73 26' 47.0" W

Red Contour: 102.4dbu(F50-10)

Areas 1-4: Potential Interference Areas

**Exhibit 13-A3**

Area #	Azimuth	Distance From Base of Tower	Angle of Depression From Antenna	Site Elevation	Margin of Headroom (site difference + - int distance above or below ground)
1	180	110m to 170m	25, 30,35 degrees	210m (16m below tower base elevation)	36m to 70m
2	300	210m to 230m	20 degrees	200m (26m below tower base elevation)	19.376m
3	290	310m to 330m	15 degrees	187m (39m below tower base elevation)	23.967m
4	280	400m and beyond	10 degrees	175m (51m below tower base elevation)	49.569m