

**AMENDMENT TO BPFT-20100122ACN**  
**RADIO POWER INC.**  
**W284BQ FM TRANSLATOR STATION**  
**CH 284D - 104.7 MHZ - 0.005 KW**  
**WARREN, MICHIGAN**  
**March 2010**

**EXHIBIT B**

The proposed operation of W284BQ, with an effective radiated power of 0.005 kilowatt at 38.1 meters above ground level, will not cause interference to any existing, applied for, or proposed facility, as noted on Exhibit B1. However, the proposed W284BQ site is inside the 54 dBu contours of second adjacent stations WOMC, Channel 282B, Detroit, Michigan and WMGC-FM, Channel 286B, Detroit, Michigan. Due to the relationship between Channel 284 and WOMC and WMGC-FM, a 40 dB ratio of the protected and interfering contours applies. We have applied the 40 dB ratio to the contours of WOMC and WMGC-FM, based on the relevant contour of each station at the proposed W284BQ site. A map showing the relative contours of WOMC and WMGC-FM at the proposed W284BQ site is attached as Exhibit B2.

The signal of WOMC at the proposed W284BQ site is 93.62 dBu (50/50). As such, the interfering contour of the translator would need to be above 133.62 dBu (50/10) to cause interference to WOMC. The 133.62 dBu contour of the proposed W284BQ translator extends less than 10.0 meters (32.8 feet) from the translator antenna. As the W284BQ antenna is to be mounted 38.1 meters (125.0 feet) above ground, this contour never reaches the ground. As such, WOMC will not receive interference from the proposed translator.

The signal of WMGC-FM at the proposed W284BQ on Channel 284 is 84.55 dBu (50/50). As such, the interfering contour of the translator would need to be above 124.55 dBu (50/10) to cause interference to WMGC-FM. The 124.45 dBu contour of the proposed W284BQ translator extends 10.0 meters (32.8 feet) from the translator antenna. As the W284BQ antenna is to be mounted 38.1 meters (125.0 feet) above ground, this contour never reaches the ground. As such, WMGC-FM will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed W284BQ facility is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed, one is respectfully requested.



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**EXHIBIT B1**

**Interference Review for W284BQ, Warren, Michigan**  
**Using Proposed Site as Reference**

REFERENCE		CH# 284D - 104.7 MHZ, Pwr= 0.005 kW, HAAT= 42.26 M, COR= 226.5 M							DISPLAY DATES	
42 29 28.0 N.		Average Protected F(50-50)= 2.7 km							DATA 03-10-10	
82 59 19.0 W.		Omni-directional							SEARCH 03-10-10	
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*
284D Warren	W284BQ	APP V MI	0.0 0.0	0.0 BPFT20100122ACN	42 29 28.0 82 59 19.0	0.050	18.1 226	5.5 Radio Power Inc.	-21.2*	-15.4*
284D Warren	W284BQ	LIC V MI	59.2 239.3	4.1 BLFT20080304ACS	42 30 36.0 82 56 44.0	0.010	10.2 191	3.2 Radio Power Inc.	-9.5*	-10.0
+ 282B Detroit	WOMC	LIC CN MI	257.0 76.9	10.7 BLH19970512KI	42 28 10.0 83 06 54.0	190.000 110	7.4 306	74.1 Cbs Radio Inc. Of Michigan	0.5	-63.7*<
+ 286B Detroit	WMGC-FM	LIC CX MI	253.9 73.8	15.0 BMLH20061004AIW	42 27 13.0 83 09 50.0	50.000 150	6.1 349	66.1 Greater Boston Radio, Inc.	6.1	-51.5*<
284B Toledo	WIOT	LIC CX OH	201.8 21.5	97.8 BMLH20020611AAX	41 40 23.0 83 25 31.0	50.000 165	140.9 345	68.0 Jacor Broadcasting Corpora	-46.1*<	16.8
284A Sarnia	AL1775^	AL ON	41.9 222.3	72.2	42 58 20.0 82 23 48.0	6.000 100	86.9 286	38.0	-17.9*<	19.9
284A Fowler	WQBx	CP NCX MI	289.5 108.4	140.9 BPH20070604ABL	42 54 05.0 84 36 58.0	3.400 126	81.2 366	27.0 Jacom, Inc.	57.0	105.2
284A Fowler	WQBx	APP NCX MI	289.6 108.5	140.8 BMPH20071029AAQ	42 54 12.0 84 36 49.0	3.700 118	81.0 357	26.6 Jacom, Inc.	57.1	105.5
284L1 Mundy Township	WMRP-LP	LIC MI	309.7 129.2	74.6 BLL20080310ADN	42 54 59.0 83 41 33.0	0.100 29	13.3 285	4.2 Swartz Creek Radio	58.3	61.2

Terrain database is 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, Co 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.  
 "<" = Contour Overlap  
 ^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements  
 Reference station has protected zone issue: Canada

+ Protection based on Desired to Undesired Contour Ratio, See Technical Statement



**W284BQ Warren MI**

Latitude: 42-29-28 N / Longitude: 082-59-19 W  
ERP: 0.05 kW / Channel: 284 / 104.7 MHz  
AMSL Height: 226.5 m

**GRAHAM BROCK, INC.**

BROADCAST TECHNICAL CONSULTANTS

W284BQ - 133.62 dBu - 50/10

W284BQ - 124.55 dBu - 50/10

W284BQ

42-29-30 N

42-29-00 N

**EXHIBIT B2**  
**MINOR CHANGE APPLICATION**  
**RADIO POWER INC.**  
**W284BQ FM TRANSLATOR STATION**  
**CH 284D - 104.7 MHz - 0.05 kW**  
**WARREN, MICHIGAN**  
**January 2010**

WMGC-FM - 84.55 dBu - 50/50

WMOC - 93.62 dBu - 50/50

**WOMC Detroit MI - BLH19970512KI**

Latitude: 42-28-10 N / Longitude: 083-06-54 W  
ERP: 190.00 kW / Channel: 282 / 104.3 MHz  
AMSL Height: 306.0 m

**WMGC-FM Detroit MI - BMLH20061004AIW**

Latitude: 42-27-13 N / Longitude: 083-09-50 W  
ERP: 50.00 kW / Channel: 286 / 105.1 MHz  
AMSL Height: 349.0 m

Scale 1:15,000

0 0.2 0.4 0.6 km



Latitude: 42-29-28 N / Longitude: 082-59-19 W  
ERP: 0.005 kW / Channel: 284 / 104.7 MHz  
AMSL Height: 226.5 m

**W284BQ - 34 dBu - 50/10**

**EXHIBIT B3**  
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Scale 1:250,000

A scale bar representing a distance of 9 km. The bar is divided into segments of alternating black and white colors. The segments are labeled 0, 3, 6, and 9 km.



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**EXHIBIT B4**

North Latitude: 42° 29' 28" - Tabulated Protected and Interfering Contour Data  
West Longitude: 82° 59' 19" - W284BQ FM Translator Station, Warren, Michigan

Azi.	HAAT	ERP kW	dBk	Field	60-F5	100-F1	54-F1	40-F1	34-F1	133.62-F1	124.55-F1
000	41.4	0.0050	-23.01	1.000	3.12	0.16	4.39	9.97	13.89	0.00	0.01
010	43.5	0.0050	-23.01	1.000	3.21	0.16	4.51	10.24	14.25	0.00	0.01
020	43.5	0.0050	-23.01	1.000	3.21	0.16	4.51	10.24	14.25	0.00	0.01
030	43.5	0.0050	-23.01	1.000	3.21	0.16	4.51	10.24	14.25	0.00	0.01
040	43.5	0.0050	-23.01	1.000	3.21	0.16	4.51	10.24	14.25	0.00	0.01
050	46.8	0.0050	-23.01	1.000	3.34	0.16	4.72	10.64	14.82	0.00	0.01
060	50.5	0.0050	-23.01	1.000	3.48	0.16	4.92	11.07	15.81	0.00	0.01
070	51.8	0.0050	-23.01	1.000	3.52	0.16	4.99	11.21	16.07	0.00	0.01
080	52.6	0.0050	-23.01	1.000	3.56	0.16	5.03	11.30	16.25	0.00	0.01
090	53.4	0.0050	-23.01	1.000	3.59	0.16	5.07	11.38	16.40	0.00	0.01
100	53.2	0.0050	-23.01	1.000	3.58	0.16	5.06	11.36	16.35	0.00	0.01
110	53.2	0.0050	-23.01	1.000	3.58	0.16	5.06	11.36	16.36	0.00	0.01
120	53.2	0.0050	-23.01	1.000	3.58	0.16	5.06	11.36	16.35	0.00	0.01
130	52.8	0.0050	-23.01	1.000	3.56	0.16	5.04	11.32	16.28	0.00	0.01
140	52.5	0.0050	-23.01	1.000	3.55	0.16	5.03	11.29	16.22	0.00	0.01
150	51.4	0.0050	-23.01	1.000	3.51	0.16	4.97	11.17	16.00	0.00	0.01
160	50.0	0.0050	-23.01	1.000	3.46	0.16	4.89	11.00	15.69	0.00	0.01
170	46.2	0.0050	-23.01	1.000	3.31	0.16	4.68	10.56	14.71	0.00	0.01
180	40.4	0.0050	-23.01	1.000	3.08	0.16	4.34	9.84	13.72	0.00	0.01
190	37.8	0.0050	-23.01	1.000	2.97	0.16	4.18	9.51	13.28	0.00	0.01
200	37.3	0.0050	-23.01	1.000	2.95	0.16	4.15	9.45	13.19	0.00	0.01
210	35.4	0.0050	-23.01	1.000	2.88	0.16	4.04	9.20	12.88	0.00	0.01
220	34.0	0.0050	-23.01	1.000	2.83	0.16	3.96	9.02	12.65	0.00	0.01
230	33.7	0.0050	-23.01	1.000	2.82	0.16	3.94	8.98	12.59	0.00	0.01
240	33.6	0.0050	-23.01	1.000	2.82	0.16	3.94	8.97	12.58	0.00	0.01
250	33.3	0.0050	-23.01	1.000	2.81	0.16	3.92	8.93	12.52	0.00	0.01
260	32.8	0.0050	-23.01	1.000	2.79	0.16	3.89	8.87	12.45	0.00	0.01
270	32.3	0.0050	-23.01	1.000	2.77	0.16	3.86	8.80	12.36	0.00	0.01
280	32.5	0.0050	-23.01	1.000	2.78	0.16	3.88	8.83	12.40	0.00	0.01
290	32.2	0.0050	-23.01	1.000	2.77	0.16	3.86	8.79	12.35	0.00	0.01
300	33.5	0.0050	-23.01	1.000	2.81	0.16	3.93	8.96	12.56	0.00	0.01
310	35.6	0.0050	-23.01	1.000	2.89	0.16	4.05	9.24	12.92	0.00	0.01
320	37.1	0.0050	-23.01	1.000	2.94	0.16	4.14	9.42	13.16	0.00	0.01
330	38.6	0.0050	-23.01	1.000	3.00	0.16	4.24	9.62	13.42	0.00	0.01
340	39.1	0.0050	-23.01	1.000	3.02	0.16	4.26	9.68	13.50	0.00	0.01
350	41.9	0.0050	-23.01	1.000	3.14	0.16	4.42	10.03	13.97	0.00	0.01

AMSL= 226.5 M