

MINOR CHANGE APPLICATION
RADIO POWER, INC.
W284BQ FM TRANSLATOR STATION
CH 284D - 104.7 MHZ - 0.25 KW
DETROIT, MICHIGAN
May 2010

EXHIBIT B

As indicated, the proposed operation of W284BQ, with an effective radiated power of 0.25 kilowatt at 278.9 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 60 dBu contour of second adjacent stations WOMC, Channel 282B, Detroit, Michigan and WMGC-FM, Channel 286B, Detroit, Michigan. Due to the relationship between W284BQ and WOMC and WMGC-FM, a 40 dB ratio of the protected and interfering contours applies.

As the signal level of WOMC is above 54 dB at the proposed tower site for W284BQ, we have applied the 40 dB ratio to the contour of WOMC, based on the relevant protected contour at the site. A map showing the relative contour of WOMC at the proposed W284BQ site is attached as Exhibit B2. The signal of WOMC at the proposed W284BQ site is 105.2 dBu (50/50). As such, the interfering contour of the translator would need to be above 145.2 dBu (50/10) to cause interference to WOMC. The 145.2 dBu contour of the proposed W284BQ translator extends 0.006 kilometer (20 feet) from the translator antenna. As the W284BQ antenna is mounted 278.9 meters (915 feet) above ground, this contour never reaches the ground. As such, WOMC will not receive interference from the proposed translator.

As the signal level of WMGC-FM is above 54 dB at the proposed tower site for W284BQ, we have applied the 40 dB ratio to the contour of WMGC-FM, based on the relevant protected contour at the site. A map showing the relative contour of WMGC-FM at the proposed W284BQ site is attached as Exhibit B3. The signal of WMGC-FM at the proposed W284BQ site is 124.2 dBu (50/50). As such, the interfering contour of the translator would need to be above 164.2 dBu (50/10) to cause interference to WOMC. The 164.2 dBu contour of the proposed W284BQ translator extends 0.0007 kilometer (2 feet) from the translator antenna. As the W284BQ antenna is mounted 278.9 meters (915 feet) above ground, this contour never reaches the ground. As such, WOMC will not receive interference from the proposed translator.

Also, as noted on Exhibit B1, there is interference delivered to the vacant allotment of Channel 284A at Sarnia, Ontario ("Sarnia"). However, as noted on Exhibit B4 all of the interference delivered to Sarnia occurs in the United States. The 34 dBu (50/10) contour of the proposed W284BQ does not overlap with the protected 54 dBu (50/50) contour of Sarnia in Canada. As such, the interference to Sarnia is not considered further.

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, Detroit, Michigan
Using Proposed Site as Reference

REFERENCE CH# 284D - 104.7 MHz, Pwr= 0.25 kW DA, HAAT= 282.37 M, COR= 480.7 DISPLAY DATES
 42 26 53.0 N. Average Protected F(50-50)= 21.9 km DATA 05-07-10
 83 10 23.0 W. Standard Directional SEARCH 05-07-10

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	LIC V MI	72.4 252.5	15.9 BLFT20100506ACN	42 29 28.0 82 59 19.0	0.050	15.8 226	4.9 Radio Power Inc.	-13.1<	-32.9<
* 282B Detroit	WOMC	LIC CN MI	63.4 243.5	5.3 BLH19970512KI	42 28 10.0 83 06 54.0	190.000 110	7.2 306	72.5 Cbs Radio Inc. Of Michigan	-14.9*<	-68.0*<
* 286B Detroit	WMGC-FM	LIC CX MI	50.6 230.6	1.0 BMLH20061004AIW	42 27 13.0 83 09 50.0	50.000 150	6.1 349	66.1 Greater Boston Radio, Inc.	-22.1*<	-66.4*<
284B Toledo	WIOT	LIC CX OH	193.7 13.5	88.6 BMLH20020611AAX	41 40 23.0 83 25 31.0	50.000 165	140.9 345	68.0 Citicasters Licenses, Inc.	-55.8*<	0.1<
284A Sarnia	AL1775^	AL ON	47.2 227.7	86.2	42 58 20.0 82 23 48.0	6.000 100	86.9 285	38.0	-19.4*<	-27.7<
230C1 Windsor	CKLW	OPE DCN ON	154.1 334.2	34.2	42 10 15.0 82 59 29.0	100.000 200	2.2 383	26.1	32.0R	2.2M
284L1 Mundy Township	WMRP-LP	LIC MI	321.0 140.6	67.2 BLL20080310ADN	42 54 59.0 83 41 33.0	0.100 29	18.6 285	5.6 Swartz Creek Radio	29.9	2.8
284A Fowler	WQBX	CP NCX MI	293.6 112.6	128.6 BPH20070604ABL	42 54 05.0 84 36 58.0	3.400 126	81.2 366	27.0 Jacom, Inc.	25.9	36.4
230D Oxford	W230BI	CP V MI	356.3 176.2	40.6 BPFT20100211AAS	42 48 47.0 83 12 20.0	0.125	2.2 379	26.1 Edgewater Broadcasting, In	10.0R	30.6M
230D Metamora	W230BI	LIC V MI	348.1 168.0	54.3 BLFT20100208ABQ	42 55 34.0 83 18 39.0	0.250	2.2 346	26.1 Edgewater Broadcasting, In	10.0R	44.3M
284D Lansing	W284AH	LIC CN MI	286.4 105.5	117.7 BLFT19990831AAK	42 44 16.0 84 33 09.0	0.250 23	23.8 284	7.1 Spring Arbor University	72.4	45.1

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: AM tower

* See Exhibit B for details

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

W284BQ Detroit MI - Proposed

Latitude: 42-26-53 N / Longitude: 083-10-23 W
ERP: 0.25 kW / Channel: 284 / 104.7 MHz
AMSL Height: 480.7 m
Horiz. Pattern: Directional
Prop Model: FCC

WOMC Detroit, MI - BLH19970512KI

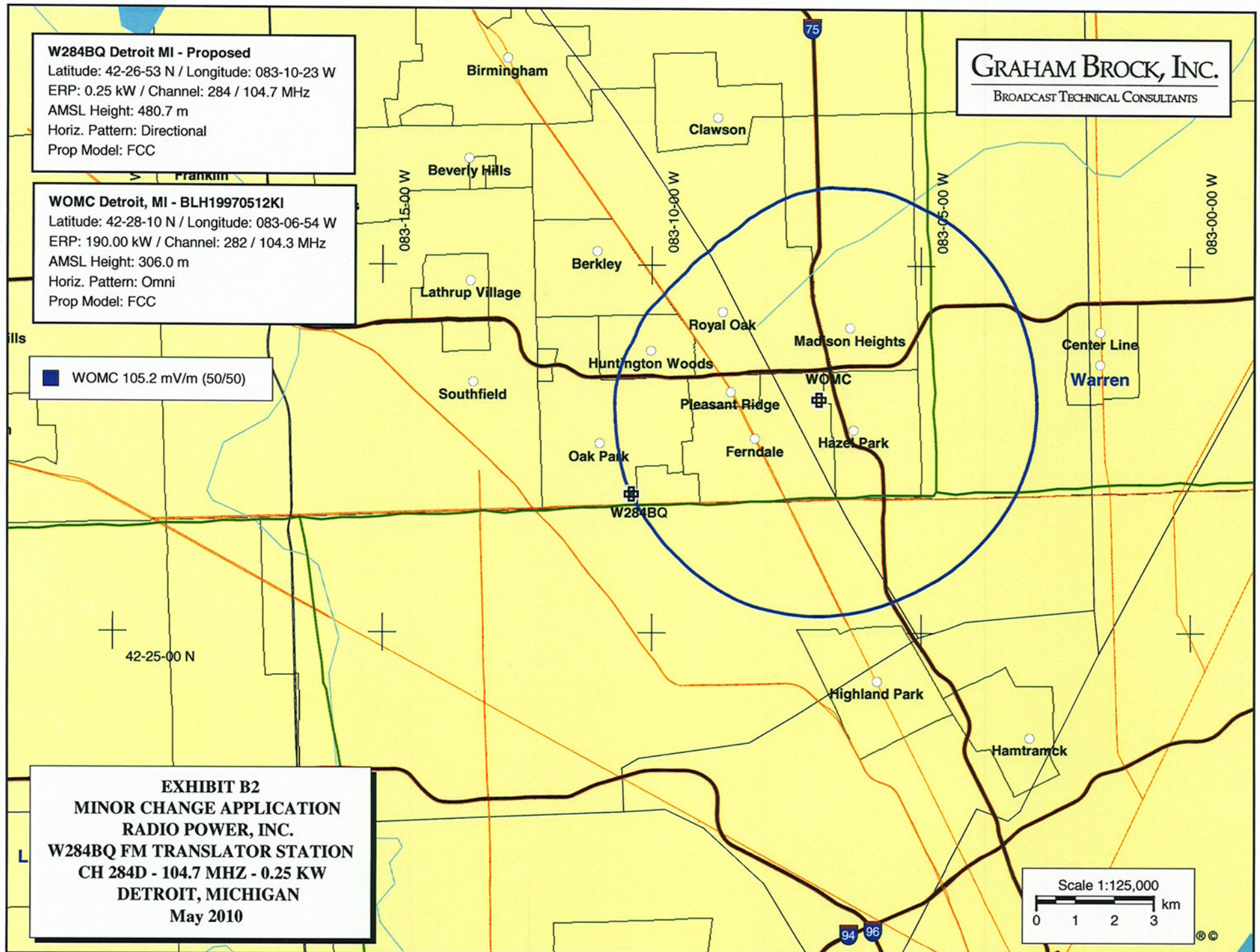
Latitude: 42-28-10 N / Longitude: 083-06-54 W
ERP: 190.00 kW / Channel: 282 / 104.3 MHz
AMSL Height: 306.0 m
Horiz. Pattern: Omni
Prop Model: FCC

■ WOMC 105.2 mV/m (50/50)

42-25-00 N

EXHIBIT B2
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Scale 1:125,000
0 1 2 3 km



W284BQ Detroit MI - Proposed

Latitude: 42-26-53 N / Longitude: 083-10-23 W
ERP: 0.25 kW / Channel: 284 / 104.7 MHz
AMSL Height: 480.7 m
Horiz. Pattern: Directional
Prop Model: FCC

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
Horiz. Pattern: Omni
Prop Model: FCC

■ WMGC-FM 124.2 mV/m (50/50)

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

Oak Park

WMGC-FM

W284BQ

42-27-00 N

083-11-00 W

083-10-00 W

083-09-00

Ferne

EXHIBIT B3

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Scale 1:25,000

0 0.33 0.67 1.0 km

W284BQ Detroit MI - Proposed

Latitude: 42-26-53 N / Longitude: 083-10-23 W
ERP: 0.25 kW / Channel: 284 / 104.7 MHz
AMSL Height: 480.7 m
Horiz. Pattern: Directional
Prop Model: FCC

Allotment - SARNIA, ON

Latitude: 42-58-20 N / Longitude: 082-23-48 W
ERP: 6.00 kW / Channel: 284A / 104.7 MHz
AMSL Height: 285.537 m
Horiz. Pattern: Omni
Prop Model: None

54 dBu (50/50)

34 dBu (50/10)

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

US/Canadian Border

EXHIBIT B4
MINOR CHANGE APPLICATION
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Scale 1:1,350,000

0 15 30 45 km

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EXHIBIT B5

North Latitude: 42° 26' 53" - Tabulated Protected and Interfering Contour Data
West Longitude: 83° 10' 23" - W284BQ FM Translator Station, Detroit, Michigan

HAAT and Distance to Contour - NGDC 30 second terrain database										
Azi.	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1	145-F1	164-F1
000	266.6	0.1197	-9.22	0.692	17.73	56.39	26.36	0.77	0.00	0.00
010	276.2	0.2500	-6.02	1.000	21.68	65.79	32.23	1.11	0.01	0.00
020	283.8	0.2500	-6.02	1.000	21.96	66.52	32.70	1.11	0.01	0.00
030	285.9	0.2500	-6.02	1.000	22.04	66.72	32.83	1.11	0.01	0.00
040	288.8	0.2500	-6.02	1.000	22.15	66.99	33.01	1.11	0.01	0.00
050	290.4	0.0900	-10.46	0.600	17.23	55.31	25.61	0.67	0.00	0.00
060	290.8	0.0306	-15.14	0.350	13.13	43.72	19.46	0.39	0.00	0.00
070	289.8	0.0306	-15.14	0.350	13.11	43.65	19.43	0.39	0.00	0.00
080	289.8	0.0342	-14.66	0.370	13.46	44.79	20.02	0.41	0.00	0.00
090	289.1	0.0342	-14.66	0.370	13.44	44.74	20.00	0.41	0.00	0.00
100	288.5	0.0342	-14.66	0.370	13.43	44.69	19.98	0.41	0.00	0.00
110	288.3	0.0342	-14.66	0.370	13.42	44.68	19.97	0.41	0.00	0.00
120	287.7	0.0342	-14.66	0.370	13.41	44.63	19.95	0.41	0.00	0.00
130	287.2	0.0342	-14.66	0.370	13.40	44.60	19.93	0.41	0.00	0.00
140	288.2	0.0342	-14.66	0.370	13.42	44.67	19.97	0.41	0.00	0.00
150	289.3	0.0342	-14.66	0.370	13.45	44.75	20.00	0.41	0.00	0.00
160	290.7	0.0012	-29.12	0.070	5.29	19.48	8.19	0.08	0.00	0.00
170	292.2	0.0006	-32.58	0.047	3.96	15.37	6.44	0.05	0.00	0.00
180	292.5	0.0004	-33.76	0.041	3.57	14.21	5.90	0.05	0.00	0.00
190	291.9	0.0004	-34.42	0.038	3.37	13.68	5.60	0.04	0.00	0.00
200	291.9	0.0004	-34.20	0.039	3.44	13.85	5.70	0.04	0.00	0.00
210	291.2	0.0004	-33.56	0.042	3.64	14.34	5.98	0.05	0.00	0.00
220	291.5	0.0006	-32.04	0.050	4.14	15.98	6.69	0.06	0.00	0.00
230	290.8	0.0012	-29.12	0.070	5.29	19.49	8.19	0.08	0.00	0.00
240	289.9	0.0030	-25.19	0.110	7.09	24.55	10.45	0.12	0.00	0.00
250	288.3	0.0306	-15.14	0.350	13.07	43.54	19.37	0.39	0.00	0.00
260	285.5	0.2500	-6.02	1.000	22.02	66.68	32.81	1.11	0.01	0.00
270	281.7	0.2500	-6.02	1.000	21.88	66.32	32.57	1.11	0.01	0.00
280	278.1	0.2500	-6.02	1.000	21.75	65.98	32.35	1.11	0.01	0.00
290	271.0	0.2500	-6.02	1.000	21.49	65.29	31.91	1.11	0.01	0.00
300	263.6	0.2500	-6.02	1.000	21.20	64.57	31.46	1.11	0.01	0.00
310	262.1	0.2070	-6.84	0.910	20.20	62.15	29.89	1.01	0.01	0.00
320	256.4	0.1640	-7.85	0.810	18.85	58.96	27.94	0.90	0.01	0.00
330	256.9	0.1350	-8.70	0.735	17.94	56.86	26.68	0.81	0.00	0.00
340	256.4	0.1681	-7.74	0.820	18.96	59.23	28.10	0.91	0.01	0.00
350	258.0	0.2450	-6.11	0.990	20.88	63.77	30.95	1.10	0.01	0.00

AMSL= 480.7 M