

[Exhibit 12]

Non-Interference Compliance

Regarding FCC File Number: BNPFT-20030317HSV

Channel: 284

Description of Exhibit 12 Contents

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all the applicable rule sections and that this application for a construction permit is in full compliance with 47 CFR 74.1204.

Page 2 of this exhibit is an explanation of the tabulated data, which is included as evidence on page 4 of this exhibit.

Page 3 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference protection provisions based on 47 CFR 74.1204(d), which states:

"an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."

In addition, page 3 includes a tabulation of the second and third adjacent stations which this application is required to protect and the field strengths of those stations in the vicinity of the proposed translator. The field strengths given were based on contours predicted using FCC contour algorithms and 3 arc second terrain data.

Let it be noted that should any actual real world interference occur, the applicant certifies that it will promptly suspend operation of this translator in accordance with 47 CFR 74.1203.

Page 4 of this exhibit is the tabulated data from the interference analysis, which shows all stations that this application had to consider for contour protection. These tabulated values were generated using high resolution 3 arc second terrain data for the best possible accuracy.

Page 5 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 min quadrangle at full scale with the calculated area of interference overlayed. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using a free-space calculation (see FCC 98-117, Appendix A, pg. 41 for reference to the equation used).

Since the proposed translator is 18.3 km from the Canadian border, 47 CFR 74.1235(d) has been taken into account and this applicant certifies that in no direction does the 34 dBu F(50,10) extend beyond 60 km, and this application is therefore in full compliance with 47 CFR 74.1235(d)(3), which states that "the distance to the 34 dBu interfering contour may not exceed 60 km in any direction," and hence in compliance with 47 CFR 74.1204(h).

Explanation of Frequency Finder Results

The interference analysis for this application was performed using the "Frequency Finder" module in RadioSoft's Comstudy, version 2.2.

Frequency Finder analyzes data taken directly from the FCC's FM database and looks for prohibited overlap with contours of adjacent stations and prohibited proximity to stations 53 or 54 channels from the proposed station (IF) using 3 arc second terrain data and the FCC's contour algorithms. The results tabulated are the stations returned from that analysis. (Note: Because Comstudy was looking at the FCC's FM database, it took into account the proposed translator when doing the analysis and returned it in the tabulated results. For the sake of simplicity, that record has been deleted from all tabulated results.)

The first several columns of the table are self-explanatory. They give various data on the stations in question. The column labeled "Clr" gives the proposed translator's "clearance" with respect to the tabulated station, either in dB or km. The values listed with no units are given in km and are for stations located on an IF to the proposed site's channel.

A negative value in the "Clr" column does NOT necessarily represent prohibited contour overlap, as explained below.

A negative value listed in the "Clr" column would indicate either overlap of interference and protected contours or prohibited proximity to an IF station except in the following situations:

- Since the proposed station's Effective Radiated Power (ERP) is 19 watts, a negative value in km (no units listed in the table) does not represent a violation of the CFR, according to 47 CFR 1204(g), which states that "FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements."

- A second or third adjacent LP100 station cannot represent a violation of the CFR, as 47 CFR 74.1204(a)(4) requires protection of only co-channel and first adjacent LP100 stations.

- 47 CFR 74.1204(a) requires only the protection of "AUTHORIZED commercial or noncommercial educational FM broadcast stations, FM translators, ..." Any entry with a status listed as "RSV," "USE" or "APP" does not represent an authorized station and therefore is not protected under 47 CFR 74.1204. The one exception is the case of LP100 applications. The note to 47 CFR 74.1204(a)(4) states that "LPFM applications and permits that have not yet been licensed must be considered as operating with the maximum permitted facilities." Therefore, any first adjacent or co-channel LP100 station, no matter the status, is protected.

- Entries highlighted in red are those stations where there is overlap of predicted contours and lack of population has been demonstrated within the area of interference.

Compliance with 47 CFR 74.1204(d)

The proposed translator's Maximum Effective Radiated Power (ERP) is 0.019kW at 85 meters above ground level. According to 47 CFR, 74.1204(a), the desired to undesired ratio between 2nd/3rd adjacent stations is 40dB, making the proposed translator's interfering contour 117.2dBu F(50,10).

Using a free-space calculation (equation referenced in FCC 98-117, Appendix A, pg. 41), this proposed translator's F(50,10) interference contour was calculated and plotted on the pertinent portion of a USGS quadrangle (page 5 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the calculated area of interference (Note: FCC 02-244, II, A, 6 states that USGS quadrangles are sufficient for demonstrating lack of population). Hence, in accordance with 47 CFR 74.1204(d) and the clarification provided by the FCC in the decision Re: Living Way Ministries (FCC 02-244), a lack of population has been demonstrated within the area of interference and therefore this application is in full compliance with 47 CFR 74.1204.

CORAGL: 85m

Antenna Manufacturer: SWR

Maximum ERP: 0.019kW

Antenna Model: FM1

F(50,10) Interfering Contour: 117.2dBu

F(50,10) Max Distance: 42.2m

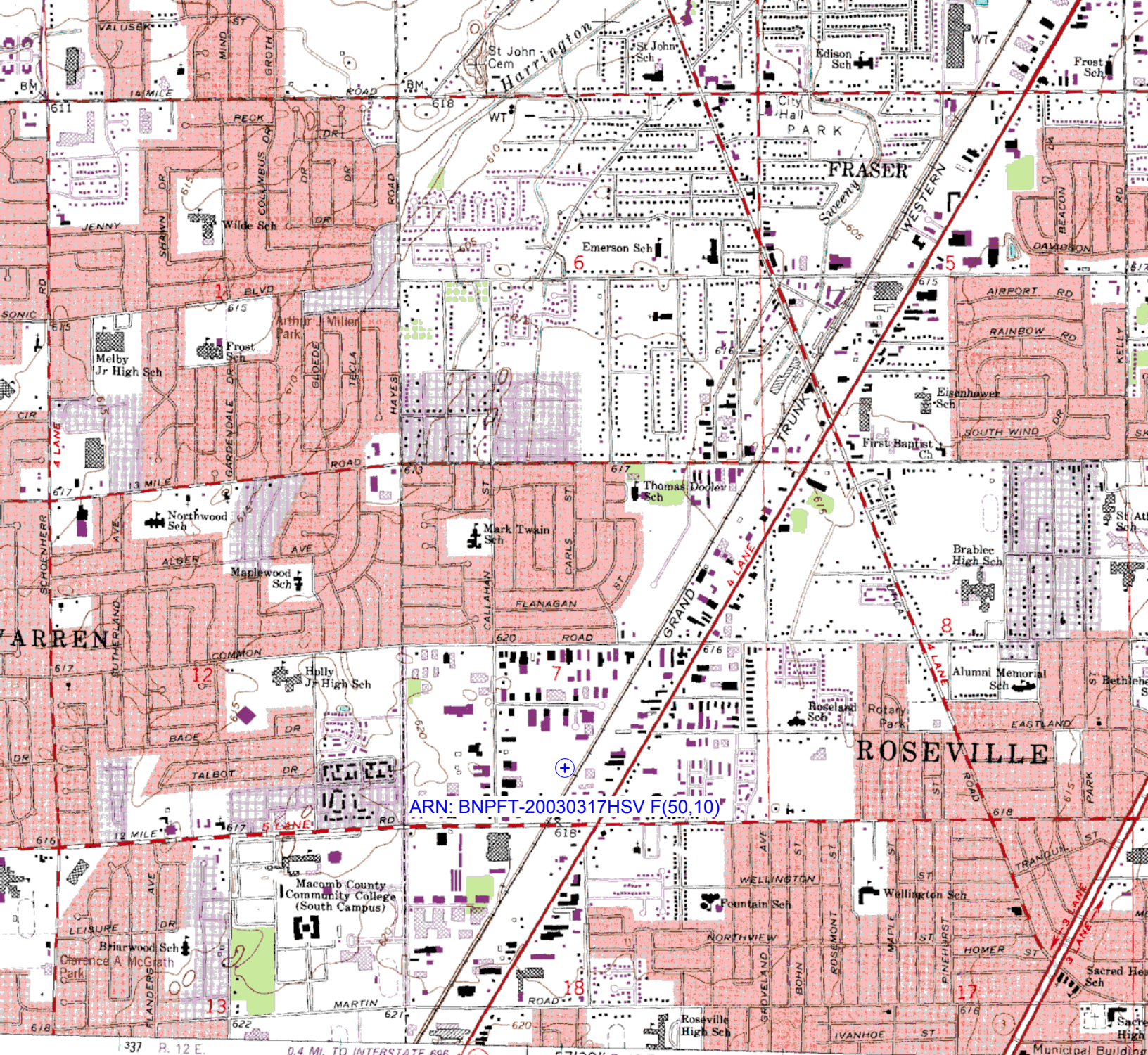
The F(50,50) signal strength of all relevant second and third adjacent stations have been examined, and are tabulated below. Column three shows the station's signal level at the proposed translator's tower site, and column four gives the minimum value within the entire proposed translator's standard F(50,10) contour (100 dBu for most classes, 94 dBu for class B's, 97 dBu for class B1's). For signal levels too great to determine, 999 was entered. The minimum F(50,50) contour within the proposed translator's standard F(50,10) contour was used to calculate the proposed translator's interference contour, thereby assuring a minimum undesired-to-desired ratio of 40dB for all relevant adjacent stations, as required in 47 CFR, 74.1204(a).

FCC File Number	Call Sign	F(50,50) Contour at Tower	Min. F(50,50) Contour
BLH19990708KD	WMGC-FM	81.3dBu	80.5dBu
BMLH20000918AAW	WMGC-FM	77.9dBu	77.2dBu
BLH19970512KI	WOMC	89.4dBu	88.4dBu
BLH19990708KE	WMGC-FM	80.1dBu	79.3dBu
BXPH20030123ABX	WMGC-FM	81.5dBu	80.8dBu

Minimum F(50,50) Protected Contour of Adjacent Station
Within Proposed Application's 100dBu F(50,10) Contour: **77.2dBu**

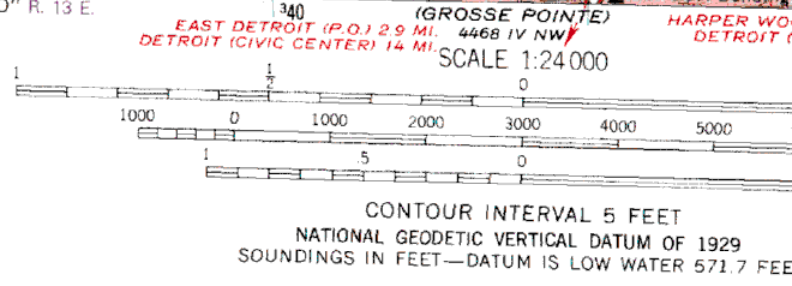
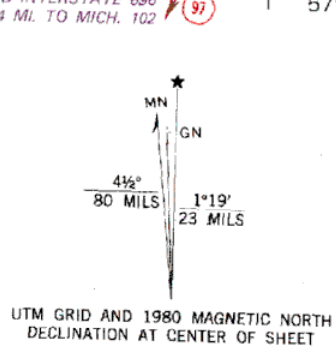
Frequency Finder

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Clr	Facility_id
WOMC	MI	DETROIT	282	190000	INFINITY BROADCASTING CORPORATI	BLH19970512KI	B	LIC	13.6	-36.50 dB	28623
WMGC-FM	MI	DETROIT	286	50000	GREATER BOSTON RADIO, INC.	BXPH20030123ABX	B	CP	17.99	-28.32 dB	40407
WMGC-FM	MI	DETROIT	286	13500	GREATER BOSTON RADIO, INC.	BLH19990708KD	B	LIC	17.99	-28.08 dB	40407
WMGC-FM	MI	DETROIT	286	16500	GREATER BOSTON RADIO, INC.	BLH19990708KE	B	LIC	17.99	-26.90 dB	40407
WMGC-FM	MI	DETROIT	286	14000	GREATER BOSTON RADIO, INC.	BMLH20000918AAW	B	LIC	20.34	-24.67 dB	40407
WIOT	OH	TOLEDO	284	50000	JACOR BROADCASTING CORPORATIO	BMLH20020611AAX	B	LIC	100.77	1.57 dB	19628
CIDR	ON	WINDSOR	230	100000			C1		37.91	5.9	124896
WOMC	MI	DETROIT	282	0	INFINITY BROADCASTING CORPORATION OF MICHIGAN		B	USE	13.5	7.01 dB	28623
NEW	MI	WHITE LAKE	284	13	EDUCATIONAL MEDIA FOUNDATION	BNPFT20030317DZU	D	APP	52.32	11.65 dB	148520
WMGC-FM	MI	DETROIT	286	0	GREATER BOSTON RADIO, INC.		B	USE	20.34	14.80 dB	40407
NEW	MI	LAPEER	284	38	EDGEWATER BROADCASTING INC.	BNPFT20030317DQK	D	APP	60.7	16.56 dB	152374
NEW	MI	PORT HURON	284	27	EDGEWATER BROADCASTING INC.	BNPFT20030317DRP	D	APP	64.4	16.37 dB	152407
	ON	SARNIA	284	0			A		68.89	20.27 dB	95110
NEW	MI	MUNDY TOWNSH	284	100	SWARTZ CREEK RADIO	BNPL20000901ADP	LP100	APP	80.49	22.46 dB	126791
W284AH	MI	LANSING	284	250	SPRING ARBOR COLLEGE COMMUNIC	BLFT19990831AAK	D	LIC	133.09	23.98 dB	77818
WIOT	OH	TOLEDO	284	0	JACOR BROADCASTING CORPORATION		B	USE	100.77	23.23 dB	19628
WQAL	OH	CLEVELAND	281	11000	INFINITY RADIO OPERATIONS INC.	BLH19930222KD	B	LIC	162.41	30.96 dB	72889
NEW	MI	ROMEO	231	13	RADIO ASSIST MINISTRY INC.	BNPFT20030317HSP	D	APP	31.32	31.3	143171
WQAL	OH	CLEVELAND	281	13000	INFINITY RADIO OPERATIONS INC.	BPH20011023AAI	B	CP	164.7	31.28 dB	72889
WVGR	MI	GRAND RAPIDS	281	108000	REGENTS OF THE UNIVERSITY OF MIC	BLH19800402AB	B	LIC	210.21	32.40 dB	66309
NEW	MI	RICHMOND	231	19	RADIO ASSIST MINISTRY INC.	BNPFT20030317HSB	D	APP	32.65	32.6	143168
WYHT	OH	MANSFIELD	287	50000	CAPSTAR TX LIMITED PARTNERSHIP	BLH6750	B	LIC	196.63	34.89 dB	67611
WVGR	MI	GRAND RAPIDS	281	108000	REGENTS OF THE UNIVERSITY OF MIC	BPED20030714AFD	B	APP	211.39	34.14 dB	66309
WKKY	OH	GENEVA	284	6000	MUSIC X-PRESS B/CNG CORP. OF NE	BLH19950131KC	A	LIC	173.83	35.98 dB	47103
WQKT	OH	WOOSTER	283	52000	WWST CORP., L.L.C.	BLH19790215AH	B	LIC	210.21	36.04 dB	74201
CFCAFM	ON	KITCHENER	287	100000			C1		214.07	38.42 dB	96430
WILZ	MI	SAGINAW	283	2900	CITADEL BROADCASTING COMPANY	BLH19920825KB	A	LIC	125.64	39.06 dB	58578
WCLV	OH	LORAIN	285	6000	RADIO SEAWAY, INC.	BLH20010718AAJ	A	LIC	140.32	39.19 dB	70109



Published by the Geological Survey
State of Michigan agencies
S.S. and U. S. Lake Survey
Metric methods from aerial photographs
by planetable surveys 1952. Revised from
1967. Field checked 1968
Data compiled from U. S. Lake Survey Chart
This map is not intended for navigational purposes
27 North American datum
Michigan coordinate system, south zone
Transverse Mercator grid ticks,

which only landmark buildings are shown
North American
Section lines 8
Dashed corner ticks



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR
AND GEOLOGICAL SURVEY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MI
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE