

[Exhibit 12]

## **Non-Interference Compliance**

For an Open Site

Regarding FCC File Number: BNPFT-20030317HQU

Channel: 227

### **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 3 of this exhibit.

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

**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.**

Since the proposed translator is 306.7 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 "LPM 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.

Frequency Finder

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Clr	Facility_id
NEW	MI	MANISTEE	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030822AIK	D	APP	34.61	3.09 dB	145387
NEW	MI	MANISTEE	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030317HRA	D	APP	34.61	3.09 dB	145387
	MI	PENTWATER	280	0		RM9930	A	APP	15.16	5.2	0
NEW	MI	LUDINGTON	281	19	EDGEWATER BROADCASTING INC.	BNPFT20030317DQN	D	APP	9.49	9.5	152382
NEW	MI	WHITEHALL	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030317HUM	D	APP	57.43	13.45 dB	145404
NEW	MI	WHITEHALL	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030822AIJ	D	APP	57.43	13.45 dB	145404
NEW	MI	FREMONT	227	19	RADIO ASSIST MINISTRY INC.	BNPFT20030317HPJ	D	APP	60.91	17.51 dB	145377
WBCT	MI	GRAND RAPIDS	229	320000	CLEAR CHANNEL BROADCASTING LIC	BLH19800616AK	B	LIC	157.9	18.20 dB	73606
WJZI	WI	MILWAUKEE	227	12500	MILWAUKEE RADIO ALLIANCE, LLC	BLH19840515CB	B	LIC	152.22	18.46 dB	59974
WJZQ	MI	CADILLAC	225	100000	WKJF RADIO, INC.	BMLH20020517AAG	C1	APP	122.4	19.75 dB	5207
WJZQ	MI	CADILLAC	225	100000	WKJF RADIO, INC.	BLH20011226AAG	C1	LIC	122.4	19.75 dB	5207
WKAD	MI	HARRIETTA	229	4300	CADILLAC BROADCASTING, LLC	BLH20030109AES	A	LIC	76.47	21.85 dB	87890
NEW	MI	GRAND HAVEN	227	120	RADIO ASSIST MINISTRY INC.	BNPFT20030317HQC	D	APP	97.24	21.09 dB	145379
970724M4	MI	GLEN ARBOR	227	6000	GEORGE S. FLINN, JR.	BPH19970724M4	A	APP	104.01	23.88 dB	87653
	MI	FRANKFORT	227	0		RMKS135	A	APP	81.66	24.21 dB	0
WDOR-FM	WI	STURGEON BAY	230	77000	DOOR COUNTY BROADCASTING CO., I	BLH19801224AK	C1	LIC	135.45	26.71 dB	17308
NEW	MI	JENISON	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030317HQP	D	APP	112.95	26.84 dB	145380
NEW	WI	MANITOWOC	227	100	FUN RADIO	BNPL20010122AJD	LP100	APP	105.44	28.32 dB	132384
	MI	GLEN ARBOR	227	0		RMKS135	A	APP	104.01	29.77 dB	0
	MI	GLEN ARBOR	227	0		RM10539	A	APP	107.02	30.38 dB	0
NEW	MI	ROCKFORD	227	13	RADIO ASSIST MINISTRY INC.	BNPFT20030317HSD	D	APP	109.63	30.58 dB	145394
970724M4	MI	GLEN ARBOR	227	0	GEORGE S. FLINN, JR.		A	APP	107.02	30.38 dB	87653
NEW	WI	KEWAUNEE	226	250	SISTER GRACE, INC.	BNPFT20030317CIO	D	APP	97.15	31.92 dB	155641
WJZI	WI	MILWAUKEE	227	0	MILWAUKEE RADIO ALLIANCE, LLC		B	USE	152.22	32.26 dB	59974
WAUN-FM	WI	KEWAUNEE	224	6000	MAGNUM BROADCASTING, INC.	BMLH20020403AAK	A	LIC	115.55	35.11 dB	26006
WBFM	WI	SHEBOYGAN	229	6000	MIDWEST COMMUNICATIONS, INC.	BLH19930225KB	A	LIC	109.7	35.26 dB	9968
WKQZ	MI	MIDLAND	227	39000	CITADEL BROADCASTING COMPANY	BLH19881027KB	C2	LIC	185.28	35.93 dB	72924
NEW	MI	BIG RAPIDS	228	100	COMMUNITY SERVICES OF BIG RAPID	BNPL20000901AHL	LP100	APP	75.55	35.62 dB	127060
970731MI	MI	HARRIETTA	229	0	MELINA HANCOCK		A	USE	69.31	36.29 dB	87791
WOZZ	WI	NEW LONDON	228	50000	MIDWEST COMMUNICATIONS, INC	BLH19890911KB	C2	LIC	186.11	37.46 dB	42089
NEW	MI	MUSKEGON	226	100	VICTORY MINISTRIES INTERNATIONAL	BNPL20000831ABX	LP100	APP	82.89	37.55 dB	126212
NEW	MI	MUSKEGON	226	100	VICTORY MINISTRIES INTERNATIONAL	BNPL20000831ABX	LP100	APP	83.02	37.69 dB	126212
NEW	MI	WAYLAND	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030317HUF	D	APP	151.01	37.80 dB	145401
NEW	MI	ALLEGAN	227	10	RADIO ASSIST MINISTRY INC.	BNPFT20030317GVK	D	APP	153.81	37.92 dB	145372
WAVC	MI	MIO	230	50000	NORTHERN STAR BROADCASTING, L.L	BLH19941013KA	C2	LIC	186.26	39.02 dB	67218
NEW	WI	GREEN BAY	226	250	MIDWEST COMMUNICATIONS, INC.	BNPFT20030317JUN	D	APP	143.02	39.89 dB	145106