

[Exhibit 12]

## **Non-Interference Compliance**

For an Open Site

Regarding FCC File Number: BNPFT-20030317KVZ

### **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 296.7 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 "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.

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Cir	Facility_id
WLMX-FM	WI	BALSAM LAKE	285	22000	QUARNSTROM MEDIA GROUP, LLC	BLH19970224KB	C3	LIC	41.98	1.85 dB	66824
NEW	WI	EAU CLAIRE	287	10	RADIO ASSIST MINISTRY, INC	BNPFT20030317KVI	D	APP	66.26	11.98 dB	150572
WCFW	WI	CHIPPEWA FALLS	289	25000	BUSHLAND RADIO SPECIALTIES/WCFW	BLH19970228KA	C3	LIC	64.11	11.07 dB	7874
NEW	WI	MENOMONIE	287	100	MENOMONIE CHRISTIAN RADIO, INC.	BNPL20010122ABV	LP100	APP	57.52	14.11 dB	132224
NEW	WI	KNAPP 54749	287	100	STONE RIDGE MISSION	BNPL20010122ABD	LP100	APP	57.81	15.86 dB	132053
NEW	WI	LADYSMITH	288	250	SISTER GRACE, INC.	BNPFT20030317LFX	D	APP	44.8	19.79 dB	157441
NEW	WI	EAU CLAIRE	288	250	CAPSTAR TX LIMITED PARTNERSHIP	BNPFT20030317ALZ	D	APP	68.52	22.00 dB	140507
WGVY	MN	CAMBRIDGE	287	25000	KQRS, INC.	BLH19911230KC	C3	LIC	122.06	24.80 dB	54838
WXCX	WI	SIREN	289	6000	QUARNSTROM MEDIA GROUP, LLC	BLH20000726AAE	A	LIC	79.96	24.95 dB	85876
KKCB	MN	DULUTH	286	100000	REGENT BROADCASTING OF DULUTH, INC.	BLH19830311AG	C1	LIC	160.57	25.48 dB	49686
NEW	WI	EAU CLAIRE	286	10	EDGEWATER BROADCASTING INC.	BNPFT20030317KFC	D	APP	66.26	25.98 dB	150461
WXCX	WI	SIREN	289	6000	QUARNSTROM MEDIA GROUP, LLC	BPH19970319MF	A	CP	82.09	25.92 dB	85876
WPGR-LP	WI	CLEAR LAKE	289	100	CLEAR LAKE CHRISTIAN RADIO, INC.	BNPL20010122ADB	LP100	CP	40.8	27.96 dB	132243
WEGZ	WI	WASHBURN	290	98000	KEWEENAW BAY BROADCASTING, INC.	BMLED20021230AAD	C1	LIC	155.68	29.23 dB	15972
WEGZ	WI	WASHBURN	290	98000	KEWEENAW BAY BROADCASTING, INC.	BMLED20021230AAD	C1	LIC	155.68	29.23 dB	15972
KWNG	MN	RED WING	290	12000	SORENSEN BROADCASTING CORPORATION	BLH19930217KA	C3	LIC	114.48	31.99 dB	60864
WPGR-LP	WI	CLEAR LAKE	289	100	CLEAR LAKE CHRISTIAN RADIO, INC.	BMPL20030410ABK	LP100	APP	40.57	32.34 dB	132243
WGVY	MN	CAMBRIDGE	287	0	KQRS, INC.		C3	USE	118.83	32.23 dB	54838
WRLO-FM	WI	ANTIGO	287	100000	NEWRADIO GROUP, LLC	BMLH20030303ABY	C1	LIC	199.15	35.18 dB	432
NEW	WI	MONDOVI	286	10	EDGEWATER BROADCASTING INC.	BNPFT20030317KDV	D	APP	94.88	36.30 dB	150463
940428MZ	WI	BALSAM LAKE	285	0	LAKESIDE BROADCASTING, INC.		C3	USE	46.35	37.74 dB	36427
KYBA	MN	STEWARTVILLE	287	50000	SOUTHERN MINNESOTA BROADCASTING CO	BLH19930205KD	C2	LIC	205.83	38.71 dB	67336
NEW	MN	BAYPORT	288	38	WILLIAM CORNWALL	BNPFT20030314ANZ	D	APP	98.47	38.96 dB	145809
KCLD-FM	MN	ST. CLOUD	284	100000	LEIGHTON ENTERPRISES, INC.	BLH19910913KB	C	LIC	222.39	38.85 dB	37003
W290AH	WI	AMERY	290	65	ROGER OLSON	BPFT19970414TB	D	CP	53.47	39.32 dB	57420
NEW	MN	HOULTON	288	250	AMFM RADIO LICENSES, LLC	BNPFT20030317AWQ	D	APP	90.71	39.51 dB	138368
W290AH	WI	AMERY	285	65	ROGER OLSON	BLFT19950113TB	D	LIC	53.47	39.32 dB	57420