

[Exhibit 12]

## **Non-Interference Compliance**

For an Open Site

Regarding FCC File Number: BNPFT-20030317HWQ

### **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.**

## **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.

Frequency Finder

| Callsign | State | City         | Channel | ERP_w  | Licensee                          | ARN              | Class | Status | Distance_km | Clr      | Facility_id |
|----------|-------|--------------|---------|--------|-----------------------------------|------------------|-------|--------|-------------|----------|-------------|
| NEW      | IL    | MT VERNON    | 253     | 250    | COUNTRYSIDE BROADCASTING, INC.    | BNPFT20030317MGT | D     | APP    | 25.61       | 10.37 dB | 158296      |
| NEW      | IL    | SALEM        | 257     | 250    | COUNTRYSIDE BROADCASTING, INC.    | BNPFT20030317LUX | D     | APP    | 16.46       | 11.40 dB | 145534      |
| KFUO-FM  | MO    | CLAYTON      | 256     | 100000 | THE LUTHERAN CHURCH-MISSOURI S'   | BLH19881115KB    | C     | LIC    | 105.04      | 12.11 dB | 65924       |
| KYKY     | MO    | ST. LOUIS    | 251     | 90000  | INFINITY RADIO SUBSIDIARY OPERATI | BLH19890112KA    | C1    | LIC    | 105.04      | 12.57 dB | 20358       |
| WNNS     | IL    | SPRINGFIELD  | 254     | 50000  | LONG NINE, INC.                   | BMLH19890813KB   | B     | LIC    | 137.96      | 16.22 dB | 38347       |
| NEW      | IL    | CARBONDALE   | 254     | 120    | W. RUSSELL WITHERS, JR.           | BNPFT20030317AEJ | D     | APP    | 93.68       | 19.77 dB | 148058      |
| KYKY     | MO    | ST. LOUIS    | 251     | 36000  | INFINITY RADIO SUBSIDIARY OPERATI | BLH19960809KC    | C1    | LIC    | 105.04      | 19.84 dB | 20358       |
| NEW      | IL    | CARBONDALE   | 254     | 120    | COVENANT NETWORK                  | BNPFT20030317BFT | D     | APP    | 92.7        | 20.16 dB | 153757      |
| NEW      | IL    | CARBONDALE   | 254     | 120    | COVENANT NETWORK INC.             | BNPFT20030314BNL | D     | APP    | 92.7        | 20.16 dB | 143434      |
| WISH-FM  | IL    | GALATIA      | 255     | 4100   | GALATIA FM JOINT VENTURE          | BLH20010403AAQ   | A     | LIC    | 80.58       | 21.68 dB | 70601       |
| NEW      | MO    | SAINT PETERS | 254     | 250    | KASPAR BROADCASTING CO. OF MISS   | BNPFT20030317GQD | D     | APP    | 135.77      | 23.98 dB | 155905      |
| KTJJ     | MO    | FARMINGTON   | 253     | 100000 | KREI, INC.                        | BLH19821215AD    | C     | LIC    | 156.97      | 24.86 dB | 35533       |
| WRAY-FM  | IN    | PRINCETON    | 251     | 50000  | PRINCETON BROADCASTING CO., INC.  | BLH19990528KC    | B     | LIC    | 135.55      | 24.02 dB | 53568       |
| WRAN     | IL    | TOWER HILL   | 252     | 3700   | KASKASKIA BROADCASTING, INC.      | BLH20011120ABI   | A     | LIC    | 79.94       | 24.23 dB | 78691       |
| WACF     | IL    | PARIS        | 253     | 50000  | P.R.S. BROADCASTING, INC.         | BMLH452          | B     | LIC    | 166.67      | 28.12 dB | 51153       |
| WHQQ     | IL    | NEOGA        | 255     | 2900   | WSHY, INC.                        | BLH19961203KA    | A     | LIC    | 99.12       | 29.30 dB | 73997       |
| WNNS     | IL    | SPRINGFIELD  | 254     | 0      | LONG NINE, INC.                   |                  | B     | USE    | 137.96      | 30.26 dB | 38347       |
| KTJJ     | MO    | FARMINGTON   | 253     | 37000  | KREI, INC.                        | BLH19960718KB    | C     | LIC    | 156.97      | 31.13 dB | 35533       |
| NEW      | IL    | MCLEANSBORO  | 253     | 10     | RADIO ASSIST MINISTRY, INC.       | BNPFT20030317IBV | D     | APP    | 72.14       | 32.25 dB | 152535      |
| K201FL   | IL    | MOUNT VERNON | 201     | 12     | CALVARY CHAPEL OF TWIN FALLS, INC | BLFT20010702ACU  | D     | LIC    | 32.08       | 32.1     | 92538       |
| KFUO-FM  | MO    | CLAYTON      | 256     | 5000   | THE LUTHERAN CHURCH-MISSOURI S'   | BLH19860915KB    | C     | LIC    | 104.25      | 33.54 dB | 65924       |
| NEW      | KY    | OWENSBORO    | 254     | 250    | WLME, INC.                        | BNPFT20030312BAF | D     | APP    | 193.11      | 33.40 dB | 138392      |
| NEW      | IL    | FAIRFIELD    | 253     | 19     | RADIO ASSIST MINISTRY, INC.       | BNPFT20030317HXd | D     | APP    | 72.42       | 33.10 dB | 152486      |
| NEW      | IL    | CARMI        | 253     | 10     | RADIO ASSIST MINISTRY, INC.       | BNPFT20030317HWN | D     | APP    | 96.86       | 35.42 dB | 152384      |
| WIAI     | IL    | DANVILLE     | 256     | 50000  | I.A.I. BROADCASTING, INC.         | BLH4715          | B     | LIC    | 210.25      | 36.61 dB | 28195       |