

# **R. M. SMITH ASSOCIATES**

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## APPLICATION FOR NEW FM TRANSLATOR FOR

### WBAT(AM) – MARION, INDIANA

#### EXHIBIT 13

#### CONTOUR OVERLAP PROTECTION

A computerized search of the F.C.C. CDBS revealed four facilities requiring detailed study. For each of the possibly impacted facilities, the protected service contour was calculated and plotted. The pertinent interference contours from the proposed operation were also calculated and plotted. As the attached Figure 1 of the Exhibit demonstrates, no prohibited contour overlap will be generated by the proposed operation.

The four facilities studied are:

WQHU-LP	Huntington, IN	288LP100	Fac ID = 124382
WYXB(FM)	Indianapolis, IN	289B	Fac ID = 51432
WKOA(FM)	Lafayette, IN	287B	Fac ID = 71064
WJOT-FM	Wabash, IN	290A	Fac ID = 13537

As Figure 1 demonstrates, no prohibited contour overlap occurs with any of these facilities because:

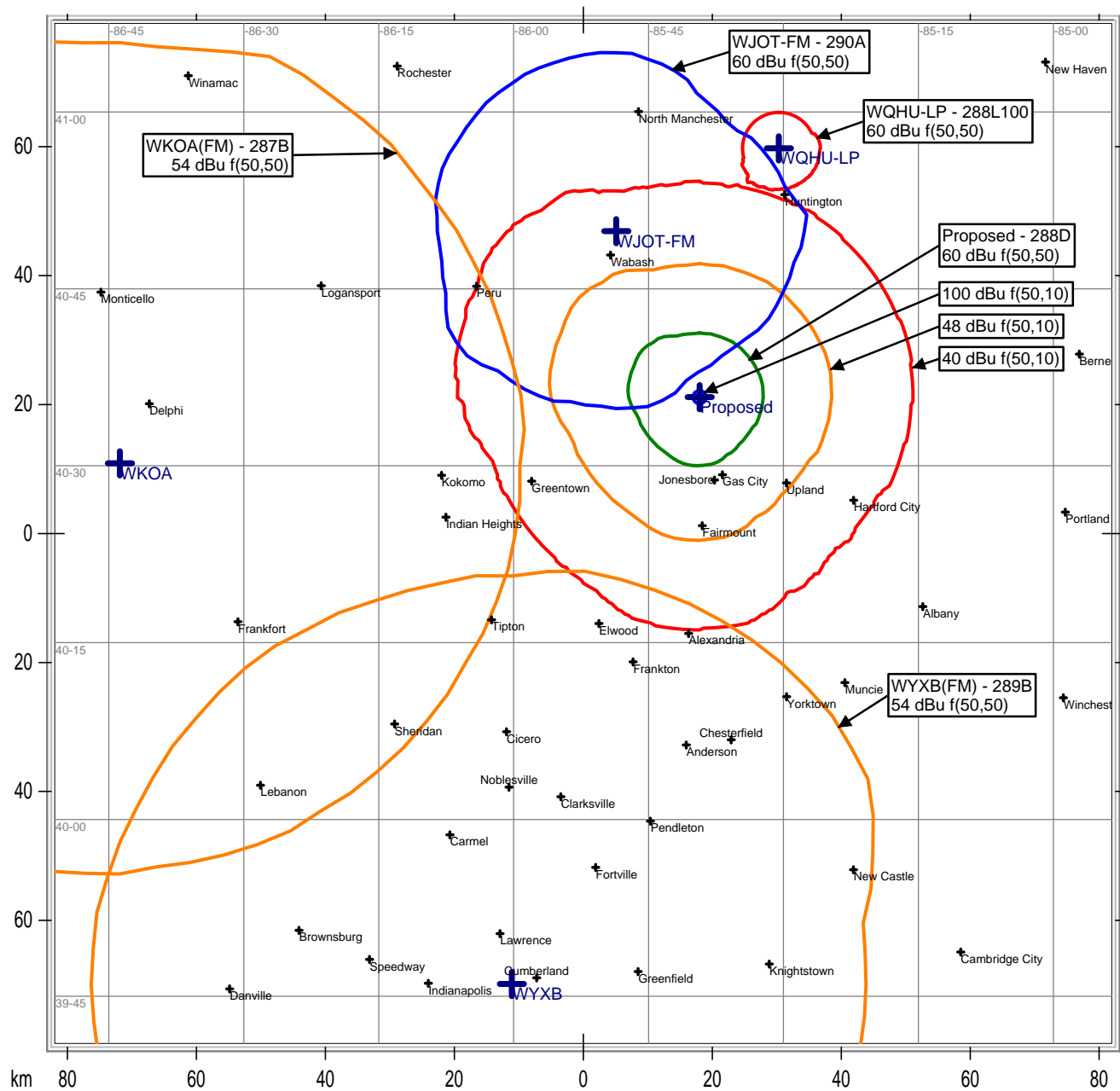
The proposed 40 dBu f(50,10) contour does not overlap the WQHU-LP 60 dBu f(50,50) contour;

The proposed 48 dBu f(50,10) contour does not overlap the WYXB(FM) 54 dBu f(50,50) contour;

The proposed 48 dBu f(50,10) contour does not overlap the WKOA(FM) 54 dBu f(50,50) contour; and

The proposed 100 dBu f(50,10) contour does not overlap the WJOT-FM 60 dBu f(50,50) contour.

## WBAT(AM) - FM TRANSLATOR CP APPLICATION



ANTENNA C/R 323 METERS AMSL - ERP 210 WATTS

— National Borders   
 — State Borders   
 — Lat/Lon Grid