

R. M. SMITH ASSOCIATES

BROADCAST TECHNICAL CONSULTANTS
P.O. BOX 345 – JENSEN BEACH, FL 34957
Tel: (772)-335-0688 Fax: (772)-672-3448
E-MAIL bob@rmsmith.com

W268CD APPLICATION FOR MINOR MODIFICATION OF CP

EXHIBIT 13 – INTERFERENCE

A Computerized search of the CDBS was conducted to determine which facilities required detailed interference analysis.

Three co-channel stations were found that required analysis.

WVXR(FM)	271C3	Randolph, VT	Facility ID 63473
WKKN(FM)	270A	Westminster, VT	Facility ID 46334
WGIR-FM	266B	Manchester, NH	Facility ID 35240

The protected coverage contour for each of the listed facilities, and the pertinent interference contours of the proposed operation of W268CD were calculated and plotted on the attached Figure 1. All contours were calculated at five degree increments of azimuth using three second terrain data.

Figure 1 shows that the proposed 54 dBu F(50,10) interference contour does not overlap the 60 dBu F(50,50) protected contour of WKKN(FM), the proposed 94 dBu F(50,10) interference contour does not overlap the 54 dBu F(50,50) protected contour of WGIR-FM and the proposed 100 dBu F(50,10) interference contour does not overlap the 60 dBu F(50,50) protected contour WVXR(FM).

The W268CD site is located 178.7 km from the Canadian / U.S. border. The proposed 34 dBu F(50,10) contour does not reach the border. The proposed operation of W268CD on channel 269 will not impact any Canadian facility.

Map of the Merrimack Valley area showing proposed and existing radio frequency contours for W268CD - 269D. The map includes latitude and longitude coordinates, a grid, and numerous town names. Four specific contour levels are highlighted with boxes and arrows: 100 dBu f(50,10) (blue), 94 dBu f(50,10) (orange), 54 dBu f(50,10) (green), and 60 dBu f(50,50) (red). The proposed station W268CD - 269D is marked with a blue star at approximately 0, 0. Other stations shown include WVXR(FM) - 271C3, WGIR-FM - 266B, and WKKN(FM) - 270A.

EXHIBIT 13 FIGURE 1