

## **WYRY Proposed Keene, NH Translator on Channel 288.**

### **Section 74.1204 Study of Potential Overlap to Existing Proximate Co-Channel and Pertinent Adjacent Channel Facilities.**

All facilities that do not meet the spacing requirements of Section 73.202 were studied for this exhibit. These include:

| <u>Call Sign</u> | <u>Location</u>      | <u>Channel No.</u> |
|------------------|----------------------|--------------------|
| WFPC-LP          | Rindge, NH           | 287L1              |
| WEBK             | Killington, VT       | 287C2              |
| WJYY             | Concord, NH          | 288A               |
| W288AN           | West Brattleboro, VT | 288D               |
| WHDQ             | Claremont, NH        | 291B               |

The attached figures illustrate the absence of prohibited overlap between the proposed translator interfering contour and the pertinent service contours.

With respect to WHDQ, the proposed 94 dBu F(50,10) interfering contour falls within the WHDQ 54 dBu service contour. The proposed facility will operate with a maximum ERP of 0.010 kW at an HAAT of 193 meters. The 94 dBu F(50,10) interfering contour of the proposed facility will extend 0.443 km. from the antenna, based on the Commission's free space equation. As shown in the attached figure, obtained from a current USGS topographical map of the area, the proposed facility is located on a remote mountaintop, and there are no residences within 0.443 km. In fact, the closest residence is over 1 km distant. The applicant therefore believes that the instant application meets the requirements of Section 74.1204(d) with respect to "other factors" insuring no actual interference to WHDQ.

WHDQ operates its own fill-in translator in Keene, W293AB, which utilizes a tower near the proposed WYRY translator. W293AB further insures the service of parent station WHDQ to Keene.

In the event that the proposed WYRY translator interferes with any qualifying existing signal, or with reception of WHDQ at the input to its translator, WYRY will take the required steps to eliminate the interference or cease translator operation.