

## Exhibit 12

### Interference Analysis Overlap Requirements

According to CFR 47 §74.1204(a), translators are required to protect all authorized FM facilities from interference due to overlap of the protected contours of the authorized facilities with the interfering contours of the new translators.

#### US Facilities

In the attached tabular printout, only KQYB has outgoing contour overlap from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

KQYB is second adjacent to the proposed translator, and, according to §74.1204(d),

**"The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to ... lack of population ... ."**

The F(50,50) signal from KQYB at the transmit site of the translator is 69.51 dBu.

A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 109.51 dBu.

Thus for the specified ERP, this contour will only extend 124 meters from the antenna. The antenna is proposed for 140 meters AGL. The interfering contour clearly does not reach down to the ground.

Hence §74.1204(d) quoted above applies (no population), and the predicted area of interference is acceptable to the Commission.