

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of ROSEBURG BROADCASTING, INC., licensee of KTVC-DT, Roseburg, Oregon, in support of its Application for Construction Permit to correct an error in the tower coordinates, the tower registration number and the overall tower height, and to correct the antenna height specified, and to reduce the station's ERP. It should be noted that the instant application does not propose a change of site, nor is any change in the antenna make, model or orientation being proposed herein.

Upon inspection of the KTVC-DT facility by Roseburg Broadcasting after beginning operation, it was discovered that the tower coordinates as well as the antenna structure registration information specified in the authorization were in error. It was discovered then, too, that the authorized SWR directional antenna had been installed by the tower riggers at a level on the tower 7 meters higher above ground than had been assumed during the installation of said antenna.

Staying within the limits imposed by the existing freeze, the instant application specifies the correct tower information, as well as specifying a reduction in ERP to offset the unintended increased height of the authorized antenna. This assures that the service contour of the corrected KTVC-DT remains entirely within that of the authorized facility. Exhibit B is a map upon which the digital service contour of the corrected KTVC-DT is plotted. As shown, the city of license is completely contained within the 48 dBu service contour. Exhibit C provides a plot of the digital service contours of both the corrected facility and the authorized facility. Because the 48 dbu service contour of the corrected KTVC-DT is entirely contained within that of authorized KTVC-DT, no interference study is included within this engineering.

## EXHIBIT A

Further, it should be noted that this correction meets all of the criteria required under the present freeze. Exhibit D provides directional antenna pattern data, although no changes in the antenna or its orientation are being proposed herein. The corrected facility's operating parameters are tabulated in Exhibit E.

Since no change in the location or overall height of the existing antenna structure is proposed herein, the FAA has not been advised of this application. The FCC issued antenna structure registration number 1061121 to this tower.

We have studied the RF transmissions of this corrected facility with regard to their environmental effect. Employing the methods set forth in *OET Bulletin No. 65* and considering the vertical pattern of the SWR antenna, we calculate maximum power density two meters above ground from the corrected facility to be  $0.0050 \text{ mw/cm}^2$ , at locations 17 meters northwest and southwest of the tower base, which is 1.5 percent of the  $0.33 \text{ mw/cm}^2$  reference at this frequency for uncontrolled areas. Further, KTVC-DT will take whatever preventive steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive RF energy. On this basis, a grant of this application would clearly be a minor environmental action.

I declare that the foregoing statements and the attached Engineering Report prepared by me are true and correct to the best of my knowledge and belief.

JEFFREY S. FISHER

October 12, 2006