

TECHNICAL SUMMARY
APPLICATION FOR LICENSE
TELEVISION STATION KRCW-TV
SALEM, OREGON
CHANNEL 33 750 KW (H), 112.5 KW (V) 537 M HAAT

1. The instant application is for a modification of license for KRCW-TV, Salem, OR (Facility ID 10192, FCC File No. BMLCDT-20070123ABS). This change is to replace the transmitting antenna and to change the transmitter power output to maintain the licensed effective radiated power (ERP). In addition, the polarization was changed from horizontal to elliptical.

2. As a result of antenna modifications in connection with the Incentive Auction repack process, the KRCW-TV transmitting antenna was replaced in accordance with the provisions of Section 73.1690 of the FCC Rules.

3. The following changes were made:

- a. Antenna Make: DIE*
- b. Antenna Model: TUM25-O4-16/64H-2-R-T
- c. Polarization: Elliptical

4. The facility is compliant with Section 73.1690(c)(1), which allows for a replacement of an omnidirectional transmitting antenna with its radiation center at the same nominal height within +2/-4 meters. It is noted that the antenna radiation center height was increased by 1 meter from the nominal licensed value to 291.6 m AGL / 614.4 m AMSL. The antenna height above average terrain (HAAT) was recalculated in accordance with the FCC's *TVStudy* analysis software to 537 m using the modified antenna radiation center height.[†]

5. The facility is compliant with Section 73.1690(c)(4), which allows for an increase in vertically polarized effective radiated power. Specifically, the proposal meets the land mobile requirements of Section 73.1690(c)(4).

* Dielectric

† The licensed HAAT is 523.3 m.