

TECHNICAL EXHIBIT
APPLICATION FOR LICENSE
RADIO STATION KTRR(FM)
LOVELAND, COLORADO
CH 273C2 50 KW 125 M

Technical Statement

This Technical Exhibit was prepared on behalf of Radio Station KTRR(FM) on Channel 273C2 assigned to Loveland, Colorado. The station is presently operating on automatic program test authority with the authorized facilities of 50 kilowatts non-directional effective radiated power and an antenna height above average terrain of 125 meters on Channel 273C2.¹

Contained within the Appendix is a letter from the Department of Commerce Radio Frequency Management Office demonstrating compliance that KTRR(FM) does not exceed the maximum permitted field strength. A copy of this instant application is also being served to the Department of Commerce pursuant to the special condition.

Figure 1 is a tabulation of the RF system specifications.

Charles A. Cooper

October 20, 2003

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
941.329.6000

¹ See FCC Construction Permit File Number: BPH-20030602BAH.

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KTRR(FM) RF Transmission System Specifications

Description	System
Transmitter Power Output (12.5 kW):	11.0 dBk
Transmission Line Loss (3") 460 feet:	0.6 dB
<i>Shively 6810-8R-SS Halfwave Length Spaced Gain (4.6 Power Gain):</i>	6.6 dB
Effective Radiated Power (50 kW):	17.0 dBk

APPENDIX

LETTER FROM DEPARTMENT OF
COMMERCE RADIO FREQUENCY
MANAGEMENT OFFICE



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Oceanic and Atmospheric Research Laboratories
325 Broadway - David Skaggs Research Center
Boulder, Colorado 80303

October 16, 2003 R/OM62

Charles A. Cooper, P.E.
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237

Dear Mr. Cooper,

The Department of Commerce Radio Frequency Management Office performed Table Mountain field strength measurements for the modified KTRR(FM) transmitter at 102.5 MHz.

During the equipment tests, the station was operating at 50kW ERP, as confirmed by the KTRR(FM) Chief Engineer. The signal strength measured 74.5 dBuV/m. The measurement is below the maximum allowable signal of 80 dBuV/m. KTRR(FM) is successfully coordinated in accordance with Table Mountain Quiet Zone regulations.

The Department of Commerce will periodically take field strength measurements to ensure the signal levels are in compliance with federal regulations. Your cooperation in protection the Quiet Zone is appreciated.

Respectfully,


Teresa Maraia
Telecommunications Specialist

CC: FCC Mass Media
R. Barth, DOC/ORFM
A. Vincent, NTIA/ITS

