

EXHIBIT 22  
RF EXPOSURE CALCULATION AND  
COMPLIANCE STATEMENT

INTRODUCTION

This report is prepared on behalf of Jackson Hole Community Radio, Incorporated, licensee of non-commercial station KHOL(FM) at Jackson, Wyoming. It presents technical information relating to the proposed new Auxiliary Antenna and transmission system to be used for KHOL(FM).

PROPOSED FACILITY

The Auxiliary system will be installed at the existing multiple user communications site at Rendezvous Mountain. The existing large cross section utility tower at the mountain top shelter will support a Scala type CLFM Log Periodic antenna mounted in the vertical polarization orientation at 10 meters AGL. The transmitter power will be adjusted so that after line loss and antenna gain the Effective Radiated Power (ERP) will be 600 Watts.

RF EXPOSURE SOURCES

Several other RF Emission sources are licensed at that site. In addition to several low power two-way and cellular operations, there are four licensed FM or TV translators as listed below.

Present

K29HG	128W - Digital	20M AGL
K25ID	298W - Analog	10M AGL
K56BT	1.13kw - Analog	10M AGL
K265DA	76W - Analog	5M AGL

It is proposed to add KHOL(FM Auxiliary), 600W - Analog, at 10M AGL.

## RF EXPOSURE CALCULATION

The KHOL(FM) Auxiliary antenna has a very sharply controlled field pattern in the vertical plane as indicated on the attached antenna pattern plot. At all vertical angles in excess of 50 degrees below the horizontal plane (40 degrees up from the vertical), the relative field is 20% of maximum or less and the resultant ground level RF Exposure is less than 10: W/Cm.Sq. This level of exposure is less than 5% of the FCC Adopted Uncontrolled Environment (Public) exposure level.

## RF EXPOSURE COMPLIANCE STATEMENT

The KHOL(FM) RF Exposure contribution is significantly controlled by the Auxiliary Antenna vertical pattern and is less than 5% of the FCC Adopted Uncontrolled Environment limit and therefore is not subject to any further RF Exposure controls.

A site user agreement will be entered into so that workers are not subject to RF Exposure in excess of the Controlled Environment limits when work is required at any elevated location near any of the RF Emitter sources at the site.

The site will be monitored and surveyed from time to time to assure all such controlled environment areas are known and suitably marked. The general site area will be posted with suitable RF Exposure warning signs and equipped with physical barriers to prevent climbing the supporting structure.

Respectfully Submitted  
Lohnes and Culver

by   
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SCALA - Kathrein

CLFM – Vertical Polarization – Vertical Plane – Relative Field Pattern

