

TECHNICAL STATEMENT
FCC FORM 301
MINOR MODIFICATION OF CONSTRUCTION PERMIT APPLICATION
KMLD(FM) CASPER, WYOMING, CH. 233C0
MOUNT RUSHMORE BROADCASTING, INC.
JUNE 2018

This FCC form 301 minor modification of Construction Permit (BPH-20180426AAB) application is prepared for KMLD(FM) Casper, Wyoming, FCC ID number 11927. KMLD seeks to one step downgrade from channel 233C to channel 233C0 and specify operation at a new tower site location. It proposes to use an 3 bay antenna system with circular polarization and 0.5 wavelength spacing between the bays. The antenna will be mounted with a Center of Radiation 99 meters above ground and 2539 meters Height Above Mean Sea Level on the existing 104 meter tower, with FCC registration number 1001086. This antenna height is 591 meters Height Above Average Terrain. This is less than full Class C0 facilities, but greater than maximum Class C1 facilities.

Figure 1 is a channel spacing study conducted from the new proposed tower site located at the coordinates of N42° 44' 37", W106° 18' 31". The study shows that KMLD will meet all of the spacing required to other pertinent same and adjacent channels under 73.207.

Figure 2 is a predicted 70 dB μ coverage contour showing that the new proposed operation of KMLD will place ample city grade service over all of Casper, Wyoming, its city of license.