



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**TELEVISION BROADCAST STATION**  
**CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

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MONTANA STATE UNIVERSITY  
ROOM 183, VCB  
BOZEMAN MT 59717

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Clay C. Pendarvis  
Associate Chief  
Video Division  
Media Bureau

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Facility Id: 68717  
Analog TSID: 1764  
Digital TSID: 1765  
Call Sign: KUHM-TV  
Permit File Number: BPCDT-19991101AJT

Grant Date: October 18, 2001

This permit expires 3:00 a.m.  
local time, April 24, 2004.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Name of Permittee: MONTANA STATE UNIVERSITY

Station Location: MT-HELENA

Frequency (MHz): 560 - 566

Channel: 29

Hours of Operation: Unlimited

Permit No.: BPCDT-19991101AJT

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

Description: DIE, TUP-P4-4

Beam Tilt: 0.5 Degrees Electrical

Major lobe directions                    30            210  
(degrees true):

Antenna Coordinates: North Latitude: 46 deg 49 min 35 sec  
West Longitude: 111 deg 42 min 33 sec

Transmitter output power: As required to achieve authorized ERP.

Maximum effective radiated power (Average): 100 kW  
20 DBK

Height of radiation center above ground: 27.4 Meters

Height of radiation center above mean sea level: 2404.4 Meters

Height of radiation center above average terrain: 697 Meters

Antenna structure registration number: None

Overall height of antenna structure above ground: 53.6 meters.

Special operating conditions or restrictions:

- 1 The grant of this construction permit is subject to the condition that, with ample time before commencing operation, you make a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within your service area potentially affected by your DTV operations. Contact with state and/or local hospital associations and local governmental health care licensing authorities may prove helpful in this process. During this pre-broadcast period, you must provide all notified entities with relevant technical details of your operation, such as DTV channel, targeted on-air date, effective radiated power, antenna location, and antenna height. You are required to place in the station's public inspection file documentation of the notifications and contacts made and you may not commence operations until good faith efforts have been made to notify affected health care facilities. During this pre-broadcast period and for up to twenty (20) days after commencing operations, should you become aware of any instances of medical devices malfunctioning or that such devices are likely to malfunction due to your DTV operations, you must cooperate with the health care facility so that it is afforded a reasonable opportunity to resolve the interference problem. At such time as all provisions of this condition have been fulfilled, and either upon the expiration of twenty (20) days following commencement of operations or when all known interference problems have been resolved, whichever is later, this condition lapses.

\*\*\* END OF AUTHORIZATION \*\*\*