



United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

WASHINGTON STATE UNIVERSITY
EDWARD R MURROW COLLEGE OF COMMUNICATION
P.O. BOX 642530
PULLMAN WA 99164

Rodolfo F. Bonacci
Assistant Chief
Audio Division
Media Bureau

Facility ID: 171613

Grant Date: September 20, 2013

Call Sign: KJEM

The authority granted herein has no effect on the expiration date of the underlying construction permit.

Permit File Number: BMPED-20130705AAD

This authorization re-issued September 25, 2013 to correct Special Operating Condition No. 8.

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.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

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

Name of Permittee: WASHINGTON STATE UNIVERSITY

Station Location: WA-PULLMAN

Frequency (MHz): 89.9

Channel: 210

Class: A

Hours of Operation:Unlimited

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

Transmitter output power: As required to achieve authorized ERP.

Antenna type:Directional

Antenna Coordinates: North Latitude: 46 deg 41 min 47 sec

West Longitude: 117 deg 14 min 44 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	2.30	2.30
Height of radiation center above ground (Meters):	136	136
Height of radiation center above mean sea level (Meters):	901	901
Height of radiation center above average terrain (Meters):	164	164

Antenna structure registration number: 1209157

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- 1
- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances. Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.

Special operating conditions or restrictions:

- 2 BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.
- 3 BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee must submit a certification executed by a licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth(s) specified in the directional antenna proof of performance. This certification must include a description of the method used by the surveyor to determine the azimuth(s) of the installed directional antenna system and the accuracy of that determination.
- 4 BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage provisions of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. Section 73.316(c) (2) (ix) (B)).
- 5 The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

. 2.30 kilowatts (H&V).

Principal minima and their associated field strength limits:

195 - clockwise - 345 degrees True: 0.073 kilowatts

- 6 Further modifications of FM Station KUOI-FM, Moscow, Idaho (Facility ID No. 69362) will not be construed as a "per se" modification of KJEM's facility. (See Educational Information Corporation, 6 FCC Rcd 2207 (1991)).
- 7 Further modifications of FM Station KRFP(FM), Moscow, Idaho (Facility ID No. 172586) will not be construed as a "per se" modification of KJEM's facility. (See Educational Information Corporation, 6 FCC Rcd 2207 (1991)).

Special operating conditions or restrictions:

- 8 During installation of the antenna authorized herein, AM Station(s) listed below shall determine operating power by the indirect method. Upon completion of the installation, antenna impedance measurements on the AM antenna shall be made and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission (along with a tower sketch of the installation) in an FCC Form 302-AM application for the AM station to return to the direct method of power determination.
(Revised January 28, 1983)

KWSU(AM), Facility ID No. 71025, Pullman, WA

- 9 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
- 10 Permittee shall submit a statement certifying that a fence has been constructed at least 2 (two) meters from the base of the tower and in such a manner as to prevent the exposure of humans to radiofrequency electromagnetic fields in excess of the FCC Guidelines in OET bulletin No. 65, Edition 97-01 August 1997. The fence must be of a type which will preclude casual or inadvertent access, and must include warning signs at appropriate intervals which describe the nature of the hazard.

*** END OF AUTHORIZATION ***