



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

Authorizing Official:

Official Mailing Address:

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KSE RADIO VENTURES, LLC  
1000 CHOPPER CIRCLE  
DENVER CO 80204

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Deborah Price  
Supr Applications Examiner  
Audio Division  
Media Bureau

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Facility ID: 59972

Grant Date: January 27, 1989

Call Sign: KKSE-FM

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

Permit File Number: BMPH-19881011IN

THIS PERMIT MODIFIES PERMIT NO.: BPH-860925IE

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: KSE RADIO VENTURES, LLC

Station Location: CO-GREELEY

Frequency (MHz): 92.5

Channel: 223

Class: C1

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: 40 deg 05 min 47 sec  
West Longitude: 104 deg 54 min 04 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	57	57
Height of radiation center above ground (Meters):	346	346
Height of radiation center above mean sea level (Meters):	896	896
Height of radiation center above average terrain (Meters):	377	377

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 355 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

- 1 Neither the horizontally nor vertically polarized radiation component shall exceed the following value at any azimuth.  
57 KW

## Special operating conditions or restrictions:

- 2 Each component shall be restricted to the following values at the azimuths specified below.  
1.46 KW AT 265 DEGREES T;  
0.82 KW AT 275 DEGREES T;  
2.76 KW AT 285 DEGREES T.
- 3 In addition, neither radiation component shall increase at a rate exceeding 0.2 dB per degree from the azimuths of restricted radiation specified above nor exceed a maximum-to-minimum ratio of 15 dB. The rms of the vertically polarized radiation pattern shall not exceed that of the horizontally polarized radiation pattern.
- 4 The horizontal and vertical radiation patterns as submitted with the application for construction permit are authorized by this permit. Changes made to these patterns will require the filing of FCC Form 301 for commercial stations and FCC Form 340 for educational stations to modify this construction permit BEFORE PROGRAM TESTS ARE AUTHORIZED. 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. BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.

## Special operating conditions or restrictions:

- 5 CONDITIONS FOR STATIONS NEAR TABLE MOUNTAIN, COLORADO
  4. BEFORE EQUIPMENT TESTS WITH THE FACILITIES AUTHORIZED HEREIN ARE BEGUN, PERMITTEE SHALL CONTACT THE RADIO FREQUENCY MANAGEMENT OFFICE OF THE NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION'S ENVIRONMENTAL RESEARCH LABORATORIES IN BOULDER, CO, AT THE ADDRESS SPECIFIED IN SECTION 73.1030 (B) (2) OF THE COMMISSION'S RULES. PERMITTEE WILL AGREE WITH THE STAFF OF THE RADIO FREQUENCY MANAGEMENT OFFICE UPON A SUITABLE MEASUREMENT PROCEDURE FOR DETERMINING THE FIELD STRENGTH OF THE SIGNAL RADIATED BY THE PERMITTEE'S AUTHORIZED FACILITIES AT THE COORDINATES OF THE TABLE MOUNTAIN RADIO RECEIVING ZONE SPECIFIED IN SECTION 73.1030 (B) OF THE COMMISSION'S RULES. AFTER REACHING AN AGREEMENT ON A SUITABLE PROCEDURE, PERMITTEE WILL BEGIN EQUIPMENT TESTS WITH THE FACILITIES AUTHORIZED HEREIN, WILL IMPLEMENT THE AGREED-UPON PROCEDURE, AND WILL MAKE SUFFICIENT MEASUREMENTS TO ESTABLISH THAT THE FIELD STRENGTH OF THE SIGNAL RADIATED BY THE PERMITTEE'S AUTHORIZED FACILITIES AT THE SPECIFIED TABLE MOUNTAIN RADIO RECEIVING ZONE COORDINATES DOES NOT EXCEED 10 MV/M OR 80 DBU.
  5. IN THE EVENT THAT THE MEASURED FIELD STRENGTH AT THE SPECIFIED TABLE MOUNTAIN RADIO RECEIVING ZONE COORDINATES RESULTING FROM THE OPERATION OF THE PERMITTEE'S AUTHORIZED FACILITIES EXCEEDS 10 MV/M OR 80 DBU, PROGRAM TESTS WILL NOT BE UNDERTAKEN BY THE PERMITTEE. THE PERMITTEE WILL INSTEAD SUBMIT AN APPLICATION FOR MODIFICATION OF THIS CONSTRUCTION PERMIT SPECIFYING A MEANS ACCEPTABLE TO THE RADIO FREQUENCY MANAGEMENT OFFICE OF THE NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION'S ENVIRONMENTAL RESEARCH LABORATORIES TO REDUCE THE FIELD STRENGTH AT THE SPECIFIED TABLE MOUNTAIN RADIO RECEIVING ZONE COORDINATES RESULTING FROM THE OPERATION OF THE PERMITTEE'S AUTHORIZED FACILITIES TO A LEVEL NOT EXCEEDING 10 MV/M OR 80 DBU.
  6. THE PERMITTEE WILL SERVE A COPY OF THE APPLICATION FOR LICENSE (FCC FORM 302 AND ASSOCIATED EXHIBITS) ON THE RADIO FREQUENCY MANAGEMENT OFFICE AT THE ADDRESS SPECIFIED IN SECTION 73.1030 (B) (2) OF THE COMMISSION'S RULES ON OR BEFORE THE DATE THE APPLICATION IS TENDERED AT THE COMMISSION'S OFFICES IN WASHINGTON, D.C. GRANT OF THE LICENSE WILL OCCUR ONLY WITH THE CONCURRENCE OF THE NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION'S ENVIRONMENTAL RESEARCH LABORATORIES AS TO THE ADEQUACY OF THE PROTECTION AFFORDED TO THE TABLE MOUNTAIN RADIO RECEIVING ZONE BY THE PERMITTEE'S AUTHORIZED FACILITIES.

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