



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

Authorizing Official:

Official Mailing Address:

UNIVERSITY OF SOUTHERN CALIFORNIA
1149 S. HILL STREET
SUITE H-100
LOS ANGELES CA 90015

Edward P. De La Hunt
Associate Chief
Audio Division
Media Bureau

Facility ID: 58653

Grant Date: May 11, 1998

Call Sign: KESC

This permit expires 3:00 a.m.
local time, November 11, 1999.

Permit File Number: BPH-19980226IA

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: UNIVERSITY OF SOUTHERN CALIFORNIA

Station Location: CA-MORRO BAY

Frequency (MHz): 99.7

Channel: 259

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: 35 deg 21 min 40 sec
West Longitude: 120 deg 39 min 21 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	.265	.265
Height of radiation center above ground (Meters):	52	52
Height of radiation center above mean sea level (Meters):	803	803
Height of radiation center above average terrain (Meters):	467	467
Antenna structure registration number:	Not Required	
Overall height of antenna structure above ground:	61 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 ***** This is a Section 73.215 contour protection grant *****
***** as requested by this applicant *****
- 2 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.

Special operating conditions or restrictions:

- 3 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.
- 4 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.
- 5 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.
- 6 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:

0.265 kilowatts.

Principal minima and their associated field strength limits:

070 degrees True: 0.054 kilowatts
080 degrees True: 0.054 kilowatts

- 7 The permittee/licensee shall, upon completion of construction and during the equipment test period, make proper RF field strength measurements throughout the transmitter site area to determine if there are any areas that exceed the ANSI and FCC specified guidelines for human exposure to radiofrequency radiation. If necessary, a fence must be erected at such distances and in such a manner as to prevent the exposure of humans to radiofrequency radiation in excess of the American National Standards Institute Guidelines (OET Bulletin No. 65, Edition 97-01, August, 1997). The fence must be a type which will preclude casual or inadvertent access, and must include warning signs at appropriate intervals which describe the nature of the hazard. Any areas within the fence found to exceed the recommended guidelines must be clearly marked with appropriate visual warning signs.

Special operating conditions or restrictions:

- 8 The permittee in coordination with other users of the site must develop procedures to protect workers during construction of the facilities authorized herein from radiofrequency radiation in excess of FCC guidelines in OET Bulletin No. 65, Edition 97-01, August 1997. The procedures must consider the combined radiation from the proposed facilities and all other radiofrequency sources at the Cuesta Peak Communications Site.

Each permittee and licensee at the Cuesta Peak Communications Site must certify that it will comply with these new procedures. The new procedures will supercede any procedures previously enacted at the site. (See January 5, 1995 letter from Larry Eads, Chief, Audio Services Division, and March 3, 1995 Report by Hammett & Edison.)

*** END OF AUTHORIZATION ***