

Code	Description
1	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 hereindescribed. 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.
2	This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.
3	Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.
4	Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus hereindescribed.
5	This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.
6	This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.
7	Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.
10	Pursuant to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, authority is hereby granted to construct a radio station as located and described below.
11	Construction and operation of this station is governed by Parts 21 and 1 of the Commission's Rules.
12	Special Operating Conditions or Restrictions:
14	This License is issued for a period consistent with Section 21.45 or Section 21.929 of the Commission's Rules. See 47 CFR §§ 21.45, 21.929.
100	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 application for the AM station to return to the direct method of power determination. (Revised January 28, 1983)

- 105 During the installation of the antenna authorized herein, AM Station(s) listed below shall determine operating power by the indirect method and, if necessary, request temporary authority from the Commission in Washington to operate with parameters at variance in order to maintain monitoring point values within authorized limits. Upon completion of the installation, common point impedance measurements on the AM array shall be made and a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected 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 application for the AM station to return to the direct method of power determination. (Revised January 28, 1983)
- 110 Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that the station(s) may commence determining operating power by the indirect method. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, antenna impedance measurements of the AM station(s) shall be made and sufficient field strength measurements, taken at 10 locations along each of eight equally spaced radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional. Prior to or simultaneous with the filing of application for license to cover this permit, the results of the field strength measurements and the impedance measurements shall be submitted to the Commission in an application for the AM station(s) to return to the direct method of power determination. (Revised March 14, 1983)
- 115 Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission. (Revised March 14, 1983)
- 1A prior to commencing construction, the conditional licensee must submit the name of the local contact who will be responsible for the technical operation of this station.
- 200 During equipment tests, the permittee shall take adequate measures to identify and eliminate objectionable interference that may be caused to existing land mobile radio facilities in the 460-470 MHz band (or 806-816 MHz band) authorized prior to the date this construction permit is issued. Documentation that objectionable interference will not be caused to existing land mobile radio facilities shall be submitted along with the application for license (FCC Form 347). Program test authority will not be granted without this showing. Operation will not begin until the Commission specifically grants the program test authority. Further, the Commission reserves the right to require television translator and low power television stations to go off the air until interference problems are resolved. See subsections 74.703 (e) and (f) of the Commission's Rules.
- 205 The grant of this application is conditioned upon the acceptance of interference which may be caused to the permittee by the facilities proposed by the application on the channel referenced below.
- 210 Subject to the condition that before program tests are authorized the transmitter employed must be type accepted or meet Commission type acceptance requirements at an actual power output as shown below. In the event the transmitter has not been type accepted at this power, the permittee shall, in the license application, provide full engineering data demonstrating compliance with Section 74.750 of the Commission's Rules.
- 215 The authorization of a license to operate this station is conditioned upon the use of a transmitter that has been type accepted or meets Commission type acceptance requirements at a visual carrier frequency tolerance of plus/minus 1 kHz. In the event the transmitter has not been type accepted at this tolerance, the permittee shall, in the license application, provide full engineering data that demonstrates compliance with Section 74.750 (c)(3)(iii) of the Commission's Rules.

- 220 Interim Mexico (Interference does not cross border) The grant of this construction permit is subject to the outcome of bi-lateral negotiations with Mexico regarding the operation of low power television stations in the U.S. - Mexico border area.
- 225 Your construction permit application indicated that this station may be operated as a low power television subscription station (STV). The Commission does not require a separate authorization for such operation. However, before commencing STV operation, you are directed to notify the Commission of the type of encoding/decoding system to be used (manufacturer and model) and the manner in which decoders will be made available to the public. Pursuant to Sections 74.731 and 73.644 of the Commission's Rules, the technical system to be used must have been approved in advance by the Commission. The Commission periodically publishes lists of approved STV systems.
- 230 Your construction permit application did not identify the name, address and telephone number of a person who may be contacted in an emergency to suspend operation of this station, should such action be deemed necessary by the Commission. You are directed to provide this information along with your license application on FCC Form 347.
- 250 This license is issued subject to the condition that the licensee shall operate the station under Program test authority until 3:00 a.m. local time, April 01, 1994. After this date, program test authority will automatically be terminated and licensed operation may begin. Further extension of the construction permit is not required.
- 252 Operation with the facilities specified herein is subject to modification, suspension, or termination, without right to hearing, as may be deemed necessary by the Commission in carrying out the provisions of the Low Power TV Agreements or any other applicable criteria agreed to by the U.S. and Mexico regarding the operation of low power TV stations in the border area.
- 254 This authorization includes a waiver of Section 74.705(b)(5) of the Commission's Rules to permit station construction within 32 kilometers of the full-service television station specified below. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. The permittee or licensee is responsible to eliminate any objectionable interference to the off-air reception of full-service television stations resulting from the operation of this station.
- 256 This authorization includes a waiver of the application acceptance standards in Sections 74.705 or 74.707 of the Commission's Rules, as applicable, based on consideration of terrain shielding. This waiver will convey for minor changes to the facility, except for those related to channel displacement, and for assignment or transfer of the authorization. Generally, the operation of this broadcast facility may not result in prohibited electromagnetic interference. The permittee or licensee is advised that, without consideration of terrain shielding, interference was predicted to the off-air reception of the following facilities and that the permittee or licensee is responsible to eliminate objectionable interference caused to these facilities.
- 300 Neither the horizontally nor vertically polarized radiation components shall exceed the following value at any azimuth.
- 301 Each component shall be restricted to the following values at the azimuths specified below.
- 302 In addition, neither radiation component shall increase at a rate exceeding 0.2 dB per degree from the azimuths of restricted radiations specified above nor exceed a maximum-to-minimum ratio of 15 dB. Terms of the vertically polarized radiation pattern shall not exceed that of the horizontally polarized radiation pattern.
- 303 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.

- 304 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.
- 305 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.
- 306 The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at an 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: 9 kilowatts. Principal minima and their associated field strength limits: 13 degrees True: kilowatts degrees True: kilowatts degrees True: kilowatts
- 310 Waiver of 47 C.F.R. Section 73.1125 is granted to allow operation of the facility authorized by this construction permit as a satellite operation of the following station:
- 318 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 radiation in excess of FCC guidelines.
- 319 The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of FCC guidelines.
- 320 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.
- 321 \*\*\*\*\* This is a Section 73.215 contour protection grant \*\*\*\*\* as requested by this applicant \*\*\*\*\*
- 322 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 (OST Bulletin No. 65, October 1985). 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.
- 323 Documentation demonstrating compliance with the ANSI radiofrequency limit may be submitted in advance of the filing of FCC Form 302-FM. The Commission's staff will review it for compliance and respond by letter stating whether automatic PTA has been reinstated.
- 324 THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 DO NOT APPLY IN THIS CASE. A FORMAL REQUEST FOR PROGRAM TEST AUTHORITY MUST BE FILED IN CONJUNCTION WITH FCC FORM 302-FM, APPLICATION FOR LICENSE, BEFORE PROGRAM TESTS WILL BE AUTHORIZED. This request should be submitted at least 10 days prior to the date on which program tests are desired to commence. This request must contain documentation which demonstrates compliance with the following special operating condition(s):

- 325 Documentation demonstrating compliance with the special operating condition(s) may be submitted in advance by the filing of FCC Form 302-FM. The Commission's staff will review it for compliance and respond by letter stating whether automatic PTA has been reinstated.
- 326 Grant of this construction permit is conditioned upon receipt of the appropriate filing fee. See 47 C.F.R. Section 1.1110. You will be billed under separate cover for this fee by the Commission's fee section. Failure to submit this fee will result in rescission of the instrument of authorization pursuant to 47 C.F.R. Section 1.1110(a)(2)
- 328 BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 302-FM application for license.
- 329 Before equipment tests with the facilities authorized herein are begun permittee/licensee shall contact the Radio Frequency Management Office of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories in Boulder, Colorado, at the address specified in Section 73.1030(b)(2) of the Commission's Rules. Permittee/licensee 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/licensee'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/licensee's authorized facilities at the specified Table Mountain Radio Receiving Zone coordinates does not exceed 10 mV/m or 80 dBu. In the event that the measur
- 330 FAA INTERFERENCE CONDITION: Upon receipt of notification from the Commission that harmful interference is being caused by the operation of the permittee's/licensee's transmitter, the permittee's/licensee's shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after one year of interference-free operation.
- 332 Permittee has specified use of a \_\_\_\_\_ antenna to demonstrate compliance with the ANSI radiofrequency radiation limit. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed in conjunction with FCC Form 302-FM, application for license, BEFORE program tests will be authorized. This request should be made at least 10 days prior to the date on which program tests are desired to commence. The request must include a revised radiofrequency radiation showing to demonstrate continued compliance with the ANSI limit. 12 Documentation demonstrating compliance with the ANSI radiofrequency radiation limit may be submitted in advance of the filing of FCC Form 302-FM. The Commission's staff will review it for compliance and respond by letter stating whether automatic PTA has been reinstated.
- 334 Permittee shall submit a statement certifying that a fence has been constructed at least \_\_\_\_\_ meters from the base of the tower and in such a manner as to prevent the exposure of humans to radiofrequency radiation in excess of the American National Standards Institute Guidelines in OST bulletin No. 65, October 1985. 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.
- 401 Subject to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, and further subject to conditions set forth in this permit, authority is hereby granted to construct an Instructional Television, Fixed Service broadcast station as located and described below.
- 402 Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission Rules.

- 403 This permit shall be forfeited if the station is not ready for operation within the time specified or within such further time as the Commission may allow unless completion of the station is prevented by causes not under the control of the permittee. See Section 1.599 of the Commission Rules.
- 404 If construction is not completed by the specified date, and no application for extension of the construction date (FCC Form 701) is on file, this authorization will be subject to cancellation.
- 405 During the process of construction, the licensee, without further authority from the Commission, may conduct equipment tests for the purpose of such adjustments and measurements as may be necessary to assure compliance with the terms of the license, the technical provisions of the application therefore, the technical requirements of Commission Rules, and applicable engineering standards.
- 406 Upon completion of construction, the licensee, without further authority from the Commission, may conduct service or program tests. Within ten (10) days of commencement of such tests, licensee must notify the Commission, in writing, in accordance with the terms of that permit, that construction has been completed and that the station operated with the terms of the license, the technical provisions of the application therefore, technical requirements of the Commission Rules, and applicable engineering standards. The original of such notification is to be filed with the Secretary, with a copy to Video Services Division, Mass Media Bureau.
- 407 Licensee must notify the Commission, in writing, if any authorized channel is not used for more than one year. Non-use of channels will result in their forfeiture. See Section 74.932(d) of the Commission Rules.
- 408 This License is issued for a period of 10 years and will expire on the date specified in this authorization. Application for renewal of license (FCC Form 330-R) shall be filed not later than the first day of the fourth full calendar month prior to the license expiration date.
- 414 During equipment tests, authorized by Section 73.1610 of the Commission's Rules, the permittee shall take adequate measures to identify and substantially eliminate objectionable interference which may be caused to existing land mobile radio facilities in the 460 to 470 MHz band. Documentation that objectionable interference will not be caused to existing land mobile radio facilities shall be submitted along with the request for Program Test Authority. Program tests shall not be commenced under Section 73.1620(a) of the Commission's Rules and may only be started after specific authority is granted by the Commission. An application for a license must be filed within 10 days after the start of program tests.
- 469 During equipment tests, authorized by Section 73.1610 of the Commission's Rules, the permittee shall take adequate measures to identify and substantially eliminate objectionable interference which may be caused to existing land mobile radio facilities in the 806 to 816 MHz band. Documentation that objectionable interference will not be caused to existing land mobile radio facilities shall be submitted along with the request for Program Test Authority. Program tests shall not be commenced under Section 73.1620(a) of the Commission's Rules and may only be started after specific authority is granted by the Commission. An application for a license must be filed within 10 days after the start of program tests.
- 500 Permittee shall make adjustments or take whatever corrective action may be necessary in the event operation of the facilities specified herein causes interference to or receives interference from other ITFS facilities operating on co-channel or adjacent channel frequencies in the ( CITY, STATE ) area.
- 501 Permittee shall obtain authority to construct any receive antenna structure to be associated with this station which increases the existing height of any structure more than 20 feet.
- 502 This authorization is subject to modification in the event the facilities specified herein cause interference to other authorized services on adjacent channel frequencies in the (CITY) area. Permittee shall coordinate with such services to resolve any adjacent channel interference problems caused or received by this station.
- 503 Transmitter may be operated by remote control pursuant to 74.933 of Rules.

- 504 Transmitter may be operated by unattended operation pursuant to 74.934 of Rules.
- 505 Permittee shall install a FCC type accepted transmitter, and submit the make and model number of transmitter installed with the application for license.
- 506 Permittee shall install a cardioid transmitting antenna in order to restrict radiation in directions where no reception is intended by the facility authorized herein. The make and model number of the transmitting antenna shall be submitted with the permittee's application for license.
- 507 Subject to the condition that specification herein of an omnidirectional transmitting antenna shall not be construed as a finding by the Commission that use of a directional antenna is not feasible. Installation of a directional transmitting antenna may be required at a future date in the event it should be necessary to avoid interference to either present or future licensees due to radiations of this station in directions where no reception is intended.
- 508 Any interference resulting from operation of this facility involving ITFS facilities ( EXISTING STATION ) will be resolved among the affected parties pursuant to letters of agreement submitted with ( PROPOSED STATION ).
- 509 Protection from harmful interference is granted for the hours of wireless cable transmissions within a protected service area as defined in Section 21.902(d) of the Commission's rules. This protection is afforded against any proposal filed after the grant by the Commission of the protected service area request.
- 600 This permit reinstates expired Permit No.: XXXXXXXX
- 601 This permit modifies Permit No.: XXXXXXXX
- 602 This permit supercedes Permit No.: XXXXXXXX
- 700 This license covers Permit No.: XXXXXXXX
- 701 This license covers Permit No.: XXXXXXXX as modified by Permit No.: YYYYYYYY
- 702 This license covers modifications authorized in Docket No.: XXXXXXXX
- 703 This license modifies License No.: XXXXXXXX Dated: MM/DD/YY
- 15 This license shall not vest in the licensee any right to operate the station or any right in the use of the frequencies designated in the license beyond the current terms, or in any other manner than authorized herein. This license shall not be assigned or transferred without the written consent of the Commission.
- 13 Construction of the subject facility must be completed consistent with the requirements of Sections 21.43, 21.44 or 21.930 of the Commission's Rules. See 47 CFR §§ 21.43, 21.44, 21.930. Upon completion of construction, the licensee must file with the Commission a certification of completion of construction. See 47 CFR § 21.43.
- 510 The digital transmission portion of this authorization is conditioned on compliance with the requirements stated in the Declaratory Ruling And Order, DA95-1854, released July 10, 1996. The requirements of this order are including but not limited to the following: The use of two types of digital modulations, Quadrature Amplitude Modulation ("QAM") and Vestigial Sideband ("VSB") with modulation densities up to 16-VSB and 256-QAM. The emission designators are 6M00D7W for QAM and 6M00C7W for VSB. The means of energy dispersal shall insure substantially uniform power spectral density across the occupied bandwidth (within the 3dB power points) of the signal, except for the spectral region of any system pilot carrier used, when averaged over both relatively long and short periods. No segment of the bandwidth of the transmitter output signal, other than at the pilot frequency, shall be above the energy level expected for uniform dispersal. The level of the pilot carrier must be at least 11.3dB below the average signal power. If you will operate transmitters not type accepted for digital use you must test their in-channel power dispersal, pilot carrier level and level of out-of-band

- 370 Permittee shall make adjustments or take whatever corrective action may be necessary, including antenna upgrades, to prevent interference to R4 (CableVision of Pflugerville, Pflugerville, TX) of ITFS station WLX403, Austin, TX (Austin Community College), from the facilities specified herein.
- 801 Subject to the provisions of the Communications Act of 1934, as amended, treaties and Commission Rules, and further subject to conditions set forth in this permit, authority is hereby granted to construct an Instructional Television Fixed Service station as described below.
- 802 Construction and operation of this station is governed by Parts 74 and 1 of the Commission's Rules.
- 803 Construction in variance of the parameters authorized under this permit is prohibited.
- 804 Upon completion of construction the licensee must file a Form 330A to certify completion of construction.
- 001A This authorization contains data that is on file for the licensed facility. Certain of that data is inconsistent with information contained in the Federal Communication Commission's Tower Registration Database. The Licensee is prohibited from constructing the antenna tower structure or the antenna as depicted in this permit until a corrected authorization is issued. Instructions for correcting the information on file for this facility may be found at: <http://haifoss.fcc.gov/prod/mmb/forms/index.htm>.