

ENGINEERING EXHIBIT NO 7
APPLICATION FOR LICENSE
KCYT-FM LICENSE CORP.
FM BROADCAST STATION KDXT
BENBROOK, TEXAS
FACILITY ID 21599
CH 296C1 74 KW 320 M


This engineering exhibit has been prepared on behalf of KCYT-FM License Corp., licensee of FM broadcast station KDXT Benbrook, Texas. Station KDXT holds a permit authorizing a change in facilities, File No. BPH-20000919ABQ. Construction of the facility has been completed and the station is ready to begin program tests.

The effective radiated power (ERP) of the station is 74 kilowatts. The major components in the transmitting system consist of a ERI type SHPX-6AC, six bay, one-wavelength spaced, circularly polarized antenna, 374.6 meters (1229 feet) of Myat rigid line having diameter of 7.9 centimeters (3 1/8 inch) and a transmitter with rated output of 30 kilowatts. The transmission line has a power transfer efficiency of 74.8 percent at 107.1 MHz. The power gain of the antenna is 3.30. With this antenna and transmission line, transmitter output power of 29.9 kilowatts achieves an ERP of 74 kilowatts.

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The applicant recognizes the responsibility to reduce power or cease operation as necessary, in conjunction with other tower users of the site, to protect workers or other authorized persons from radiofrequency electromagnetic fields in excess of FCC guidelines.

The special conditions listed on the construction permit regarding operation of stations KRVF Terrel, Texas and KSTA-FM Coleman, Texas have been fulfilled as KRVF now operates on channel 295A and KSTA-FM now operates on channel 272C3.



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July 17, 2002