

MINOR CHANGE APPLICATION
RAPID BROADCASTING COMPANY
KAUN-DT TELEVISION STATION
CH 51 - 200.0 KW
SIOUX FALLS, SOUTH DAKOTA
June 2001

TECHNICAL STATEMENT

This technical statement and attached exhibits were prepared on behalf of Rapid Broadcasting Company (Rapid), licensee of UHF television station KAUN, Channel 36+, Sioux Falls, South Dakota. Rapid herein submits its application for minor change, seeking a construction permit for its paired DTV Channel 51 at Sioux Falls, South Dakota. In MM Docket #00-200, the Commission allotted DTV Channel 51 for Channel 40 at Sioux Falls, South Dakota, for the use of Rapid as a paired DTV channel. Channel 51 was allotted to Sioux Falls with a maximum effective radiated power of 93.0 kilowatts (directional) and antenna height above average terrain of 230 meters.

In order to accommodate the installation of the KAUN-DT facilities on the same tower with KAUN, the antenna height above ground was lowered to 224.6 meters (737.0 feet). Further, the proposed power of KAUN-DT is proposed to increase from 93.0 kilowatts (directional) to 200.0 kilowatts (non-directional). Since the proposed KAUN-DT facilities will be co-located with KAUN, the Federal Aviation Administration has not been apprised of this proposal. The tower has been registered with the FCC and assigned tower registration #1206712. All information called for on FCC Form 301, Section III-DTV, is attached hereto.

Since the proposed facilities will operate with power higher than that authorized for Channel 51, a detailed DTV interference analysis was conducted and demonstrates that this proposal does not increase interference to any other facility greater than 2% nor cause cumulative interference received by any other station to exceed 10% to other existing full service NTSC/DTV facilities or applications. Further, the proposed KAUN-DT will not impact any Class A LPTV stations. See Exhibit A for details. The contributions of the KAUN-DT facilities to the radio frequency radiation levels at this site are calculated in Exhibit B and show this proposal complies with the Commission's radio frequency radiation rules.

It is noted that the proposed KAUN-DT antenna will be located 2.85 kilometers (1.77 miles) from the antenna array of station KXRB, 1000 kHz, Sioux Falls, South Dakota. When the original KAUN NTSC facility was authorized, there was a condition that pre- and post-construction measurements be conducted on KXRB to demonstrate that the tower did not impact the KXRB array. It was demonstrated with those measurements that the KAUN tower structure did not have an effect on the KXRB system. Therefore, the addition of the KAUN-DT antenna and transmission line should have no impact on the KXRB system. As such, it is requested that no condition be placed on the herein sought KAUN-DT permit regarding field strength measurements on the facilities of KXRB.