

**Human Exposure to Radiofrequency Electromagnetic Field
&
Section 106 Compliance
(Environmental)**

Riverfront Broadcasting, LLC, ("Riverfront") was the winning bidder for MM-FM942A, Channel 283A, Murdo, SD in FCC FM Broadcast Auction 93 which was completed April 5, 2012. Riverfront is filing a one-step FCC minor modification application to upgrade to Channel 283C0. The proposed new facility is locating to an existing tower site. The tower is registered with Antenna Registration Number 1041931. Therefore it is exempt from a Section 106 review by the SHPO/THPO.

The proposed Channel 283C0 facility transmitting antenna will be a side mounted Shively Model 6810 ten bay full wave antenna with a center of radiation at 262 meters AGL. The proposed facility will operate with 100 kW ERP at 318 meters HAAT.

The following television facilities operate from this tower:

KPRY-DT Channel 19 (Virtual Channel 4) Pierre, SD Facility ID# 48660

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Using the FM Model for Windows the predicted power density for Channel 283C0 near the tower at two meters above ground level attributable to the proposed facility is $3.487 \mu\text{W}/\text{cm}^2$ at 69 meters, which is 1.744 percent of the general population/uncontrolled maximum permitted exposure limit and 0.35% of the limit for "controlled" environments. This is well below the five percent threshold limit described in 1.1307(b) regarding sites with multiple emitters, which excludes applicant from responsibility for taking any corrective action in areas where the proposal's contribution is less than five percent.

The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission during times of maintenance or inspection.