

ENGINEERING STATEMENT
IN SUPPORT OF AN APPLICATION FOR CONSTRUCTION PERMIT
FOR THE PROPOSED DIGITAL TV OPERATION OF
KPRY-DT, PIERRE, SOUTH DAKOTA
CHANNEL 19 311 KW 347 METERS
MARCH 2008

This engineering statement has been prepared on behalf of Hoak Media of Dakota License, LLC, licensee of TV station KPRY-TV, Pierre, South Dakota, in support of its application for a construction permit for post-transition digital TV (DTV) operation on Channel 19.

At present KPRY-TV, Facility ID Number 48660, operates its analog TV facilities on Channel 4 (66-72 MHz) with 100 kW effective radiated power (ERP) and 378 meters antenna height above average terrain (HAAT) using a non-directional TV antenna. KPRY-TV also has a license to operate its digital TV facility on Channel 19 (500-506 MHz) with 61 kW ERP, 347 meters HAAT and a directional TV antenna. In the Seventh Report and Order (MB Docket No. 87-268) the Commission has allotted Channel 19 for the KPRY-TV's DTV operation with 1000 kW ERP, 378 meters HAAT and a directional TV antenna. KPRY-TV is filing its application for a construction permit to operate its post-transition DTV facilities on DTV Channel 19 with 311 kW ERP and 347 meters HAAT using a non-directional TV antenna.

The following information provides pertinent data for the proposed KPRY-DT operation.

Name of the Licensee:	Hoak Media of Dakota License, LLC
Station Location:	SD-Pierre
Channel:	19
Hours of Operation:	Unlimited
Transmitter:	Type Accepted
Antenna Type:	Dielectric, TFU-32DSB-A (C)

Beam Tilt: 0.5 deg

Antenna Coordinates: North Latitude: 44 deg 03 min 07 sec
West Longitude: 100 deg 05 min 03 sec

Transmitter output power: As required to achieve authorized ERP

Maximum effective radiated power (Average): 311 kW
24.93 dBk

Elevation of site above mean sea level: 621.8 meters

Overall height of the tower above ground: 331.9 meters

Height of radiation center above ground (meters): 294 meters

Height of radiation center above mean sea level (meters): 915.8 meters

Height of radiation center above average terrain (meters): 347 meters

Antenna Structure Registration Number: 1041931

**Response to questions for Post Transition Expedited Processing listed on the
FCC Form 301, Section III-D-DTV Engineering**

Question 1. (a)

KPRY-TV will operate its DTV operation on Channel 19 as established in 47 C.F.R.
Section 73.622.

Question 1. (d)

KPRY-TV is proposing to operate its post-transition facilities which are slightly
smaller than established in Appendix B of the Seventh Report and Order (MB Docket
No. 87-268). The minor difference is due to lower ERP and HAAT and use of a non-
directional DTV antenna. The proposed noise-limited service contour does not

extend in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket 87-268.

Question 1. (e)

The proposed DTV operation would serve 42,840 people within the noise limited service area as compared to 45,000 predicted population defined in the new DTV Table in Appendix B. As such, KPRY-DT proposed noise limited would serve 95.2% population listed in the new DTV Table in Appendix B.

Question 2.

The attached environmental statement demonstrates that there will not be any significant environmental impact from the proposed DTV operation in accordance with 47 C.F.R. Section 73.1307.

Question 3.

The attached map shows the proposed KPRY-DT contour will encompass the allotted principal community of Pierre, South Dakota.

Question 4.

The proposed KPRY-DT facility complies with Section 73.1030 of the Commission's rules; therefore, notification to radio astronomy installations, radio receiving installations and FCC monitoring stations is not required.

Question 5.

The existing KPRY-DT tower is registered (ASR No. 1041931) by the Commission and no changes are proposed to require a change in the registration.

ENVIRONMENTAL PROTECTION ACT

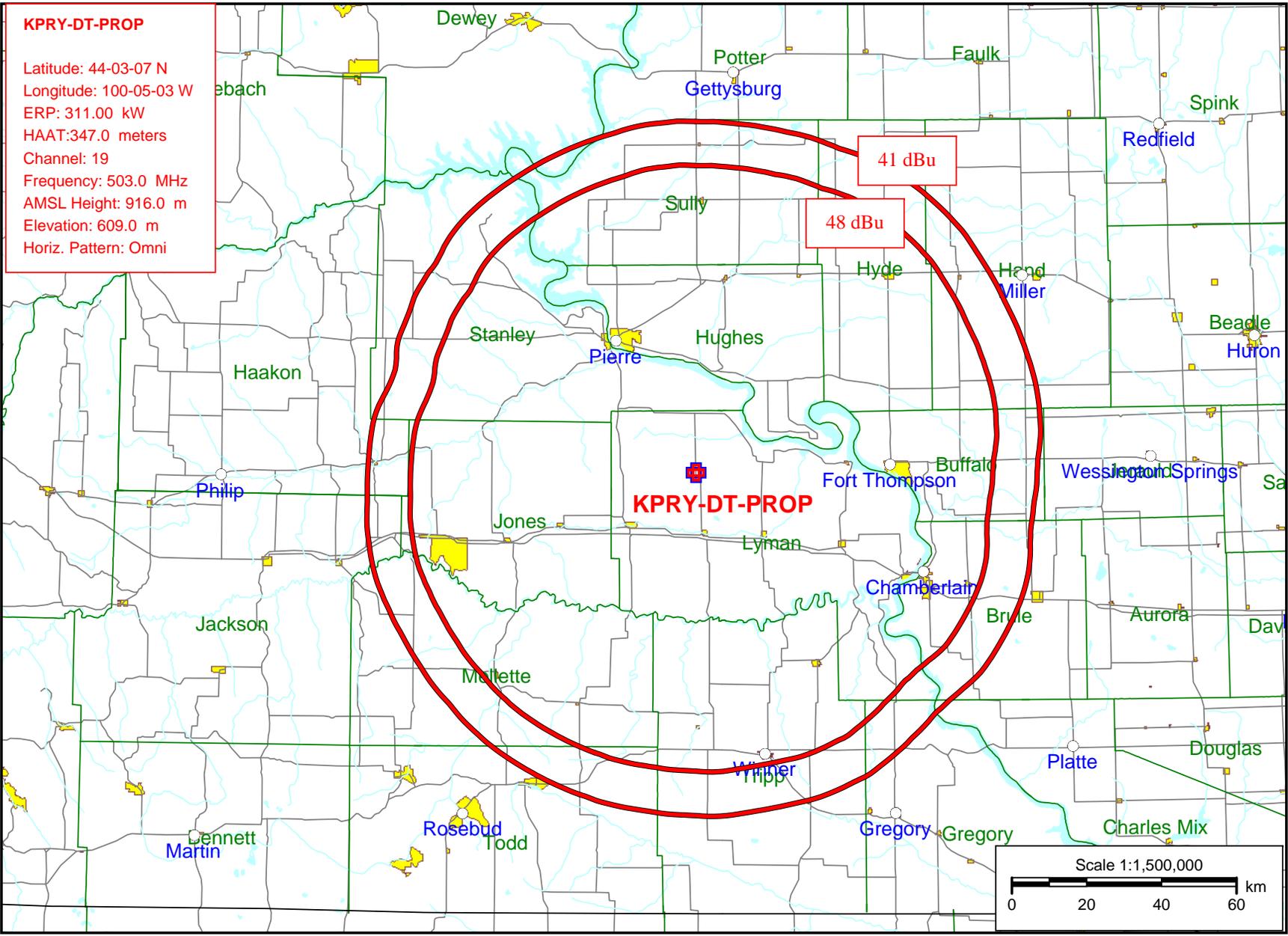
Since KPRY-DT will be using its currently licensed tower (ASR No. 1041931), for the DTV operation the environmental concerns listed in Section 1.1307(a) of the Commission's rules are not pertinent; therefore, those issues have not been addressed.

An evaluation has been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the OET Bulletin No. 65 dated August 1997. For a maximum effective radiated power of 311 kW and a radiation center of 294 meters above ground level, the proposed Channel 19 DTV operation would have a maximum of 4.9 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) RF field at 2 meters above the base of tower assuming an antenna field factor of 0.2 in the downward direction.

The Commission's guidelines for the Channel 19 TV are $1,666 \mu\text{W}/\text{cm}^2$ for the occupational/controlled, and $333 \mu\text{W}/\text{cm}^2$ for the general population/uncontrolled environment.

The above analysis indicates that members of the public and personnel working around the KPRY-DT tower would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, KPRY-DT will establish procedures to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

For the reasons stated above, it is believed this proposal complies with Section 1.1307(a) and (b) of the Commission's Rules; therefore, under Section 1.1306, it is categorically excluded from environmental processing.



COMPUTED CONTOURS FOR THE PROPOSED DTV OPERATION OF KPRY-DT, PIERRE, SOUTH DAKOTA