

ENGINEERING STATEMENT
IN SUPPORT OF AN APPLICATION FOR CONSTRUCTION PERMIT
FOR THE PROPOSED DIGITAL TV OPERATION OF
KHAS-TV, HASTINGS, NEBRASKA
CHANNEL 5 6.78 KW 217 METERS
MARCH 2008

This engineering statement has been prepared on behalf of Hoak Media of Nebraska License, LLC, licensee of TV station KHAS-TV, Hastings, Nebraska, in support of its application for a construction permit for post-transition digital TV (DTV) operation on Channel 5.

At present KHAS-TV, Facility ID Number 48003, operates its analog TV facilities on Channel 5 (76-82 MHz) with 100 kW effective radiated power (ERP) and 223 meters antenna height above average terrain (HAAT) using a non-directional TV antenna. In the Seventh Report and Order (MB Docket No. 87-268) the Commission has allotted Channel 5 for the KHAS-TV's post-transition DTV operation. KHAS-TV is filing its application for a construction permit to operate following the DTV transition on DTV Channel 5 with 6.78 kW ERP and 217 meters HAAT using a non-directional TV antenna.

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

Name of the Licensee:	Hoak Media of Nebraska License, LLC
Station Location:	NE-Hastings
Channel:	5
Hours of Operation:	Unlimited
Transmitter:	Type Accepted
Antenna Type:	RCA, TF-12AM
Beam Tilt:	None

Antenna Coordinates:	North Latitude:	40 deg	39 min	06 sec
	West Longitude:	98 deg	23 min	04 sec
Transmitter output power:	As required to achieve authorized ERP			
Maximum effective radiated power (Average):	6.78 kW 8.31 dBk			
Elevation of site above mean sea level:	590 meters			
Overall height of the tower above ground:	233.8 meters			
Height of radiation center above ground (meters):	215 meters			
Height of radiation center above mean sea level (meters):	805 meters			
Height of radiation center above average terrain (meters):	217 meters			
Antenna Structure Registration Number:	1033562			

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

Question 1. (a)

KHAS-TV will operate its DTV operation on Channel 5 as established in 47 C.F.R.
Section 73.622.

Question 1. (d)

KHAS-TV is proposing to operate its post-transition facilities which are slightly different than established in Appendix B of the Seventh Report and Order (MB Docket No. 87-268). The minor difference is due to the use of a non-directional DTV antenna which is currently used for analog TV operation while the Appendix B facilities specify a 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 population within the proposed DTV service area would not be less than 5% of the predicted population defined in the new DTV Table 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 KHAS-DT contour will encompass the allotted principal community of Hastings, Nebraska.

Question 4.

The proposed KHAS-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 KHAS-DT tower is registered (ASR No. 1033562) by the Commission and no changes are proposed to require a change in the registration.

ENVIRONMENTAL PROTECTION ACT

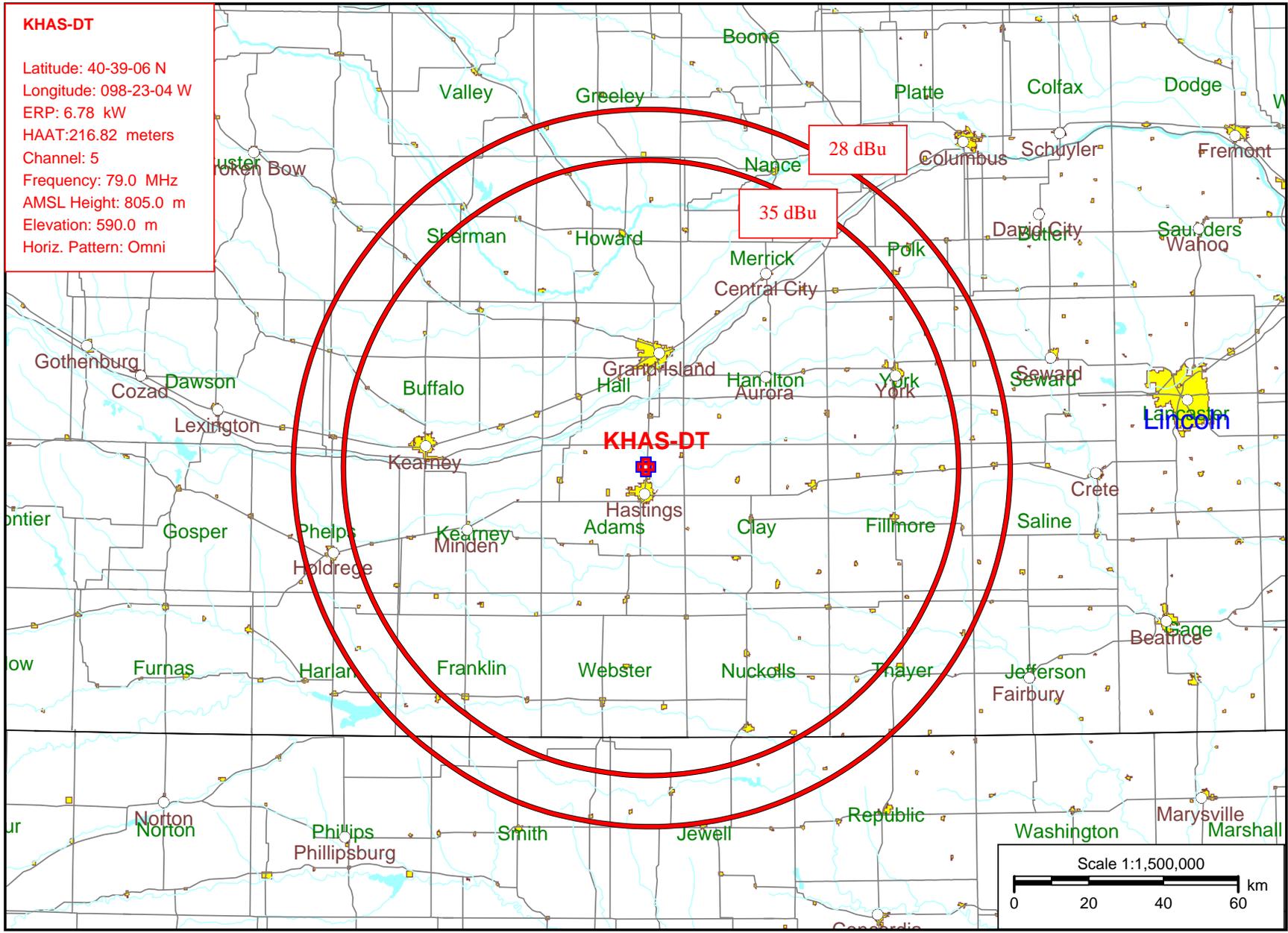
Since KHAS-TV will be using its currently licensed analog TV antenna, located on tower (ASR No. 1033562), for the DTV operation the environmental concerns listed in Section 1.1307(a) of the Commission's rules are not pertinent; therefore, those issues have not been addressed.

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 6.78 kW and a radiation center of 215 meters above ground level, the proposed Channel 5 DTV operation would have less than 2 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 0.5 in the downward direction.

The Commission's guidelines for the Channel 5 TV are $1000 \mu\text{W}/\text{cm}^2$ for the occupational/controlled, and $200 \mu\text{W}/\text{cm}^2$ for the general population/uncontrolled environment.

The above analysis indicates that members of the public and personnel working around the KHAS-DT tower would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, KHAS-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 COVERAGE CONTOURS FOR THE PROPOSED DTV OPERATION OF KHAS-DT, HASTINGS, NEBRASKA