

TECHNICAL EXHIBIT
APPLICATION FOR POST TRANSITION CONSTRUCTION PERMIT
STATION KBYM(DT)
BISMARCK, NORTH DAKOTA
CH 17 75 KW 285 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station KBYM(DT) for its final DTV facility at Bismarck, North Dakota. This application requests a construction permit (CP) for a digital television operation on channel 17 at Bismarck with a non-directional antenna and an effective radiated power (ERP) of 75 kilowatts.

Proposed Facilities

Station KBYM(DT) proposes to operate on DTV channel 17 from its licensed NTSC transmitter site. The antenna height above average terrain for the channel 17 DTV operation is 285 meters. The proposed directional ERP level of 75 kilowatts will not result in the herein proposed noise-limited contour extending beyond its FCC approved allocated maximum effective radiated power in any azimuthal direction.

The proposed DTV transmitter site will be located at its DTV allotted transmitter site. Therefore, the proposed site location is:

46° 35' 11" North Latitude
100° 48' 20" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1.

Figure 2 is a map showing the DTV predicted coverage contour and the associated *Appendix B* noise-limited coverage contour. The extent of the contour has been calculated using the normal FCC prediction method. The Bismarck city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

Population Served

The herein proposed KBMY(DT) facility is predicted to serve 106,000 persons, post-transition based upon the 2000 Census. KBMY(DT) associated allotment facility is predicted to serve 106,000 persons. Therefore, the herein proposed KBMY(DT) facility would serve 100% of KBMY(DT)'s allotment population.

Allocation Considerations

No allocation study was completed as the proposed facility is identical to the allocated facility.

Radiofrequency Electromagnetic Field Exposure

The proposed KBMY(DT) facilities were evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level to workers and the general public. The radiation center for the proposed KBMY(DT) antenna is located 187 meters above ground level. The maximum effective radiated power is 75 kilowatts. A "worst-case" relative field value of 0.25 is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 0.006 mW/cm^2 . This is less than 5 percent of the Commission's recommended limit of 0.32 mW/cm^2 for channel 17 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. As this will be a multi-user site an agreement between the stations will control access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

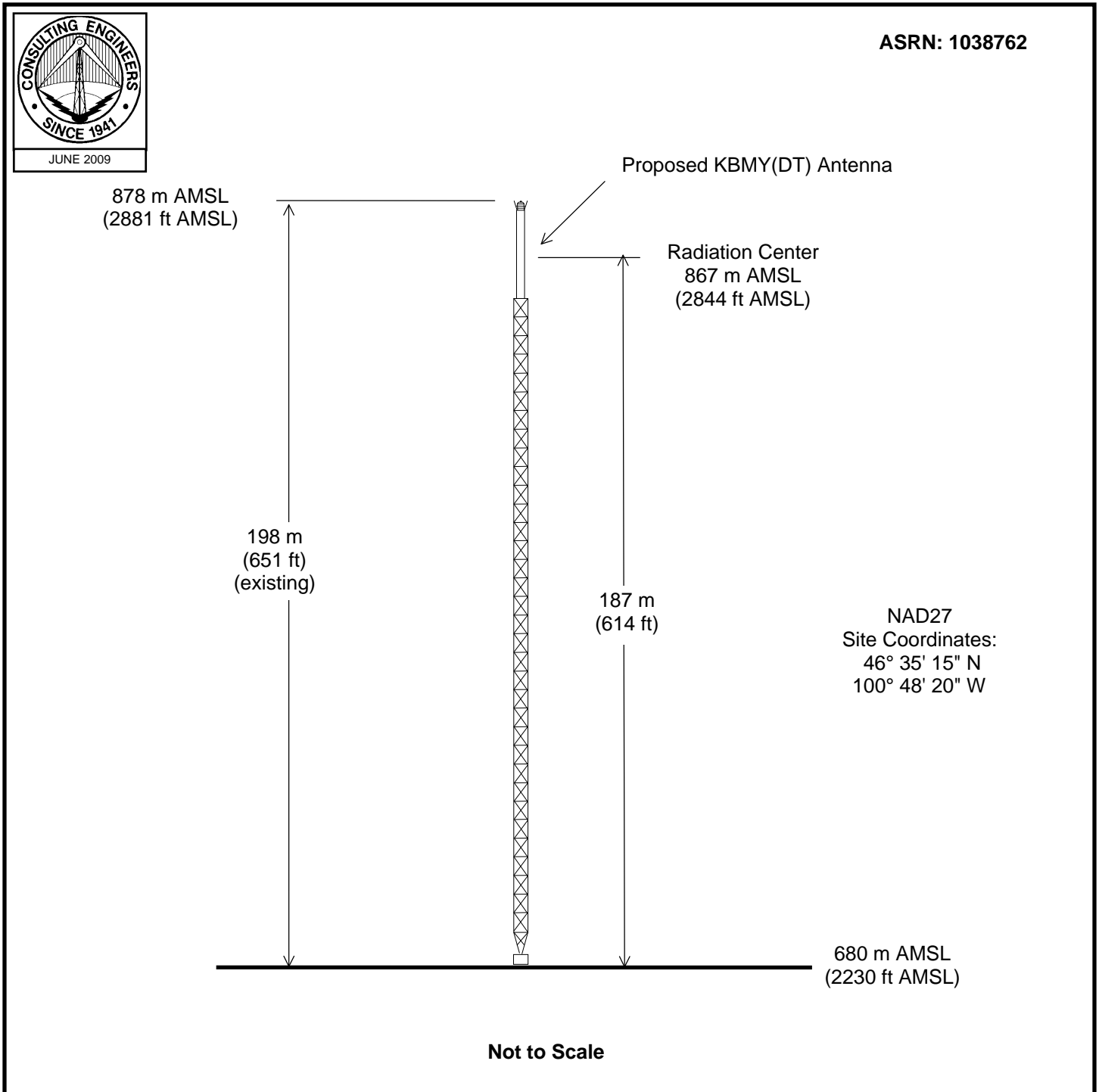
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

Charles Cooper

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June 5, 2009

Figure 1

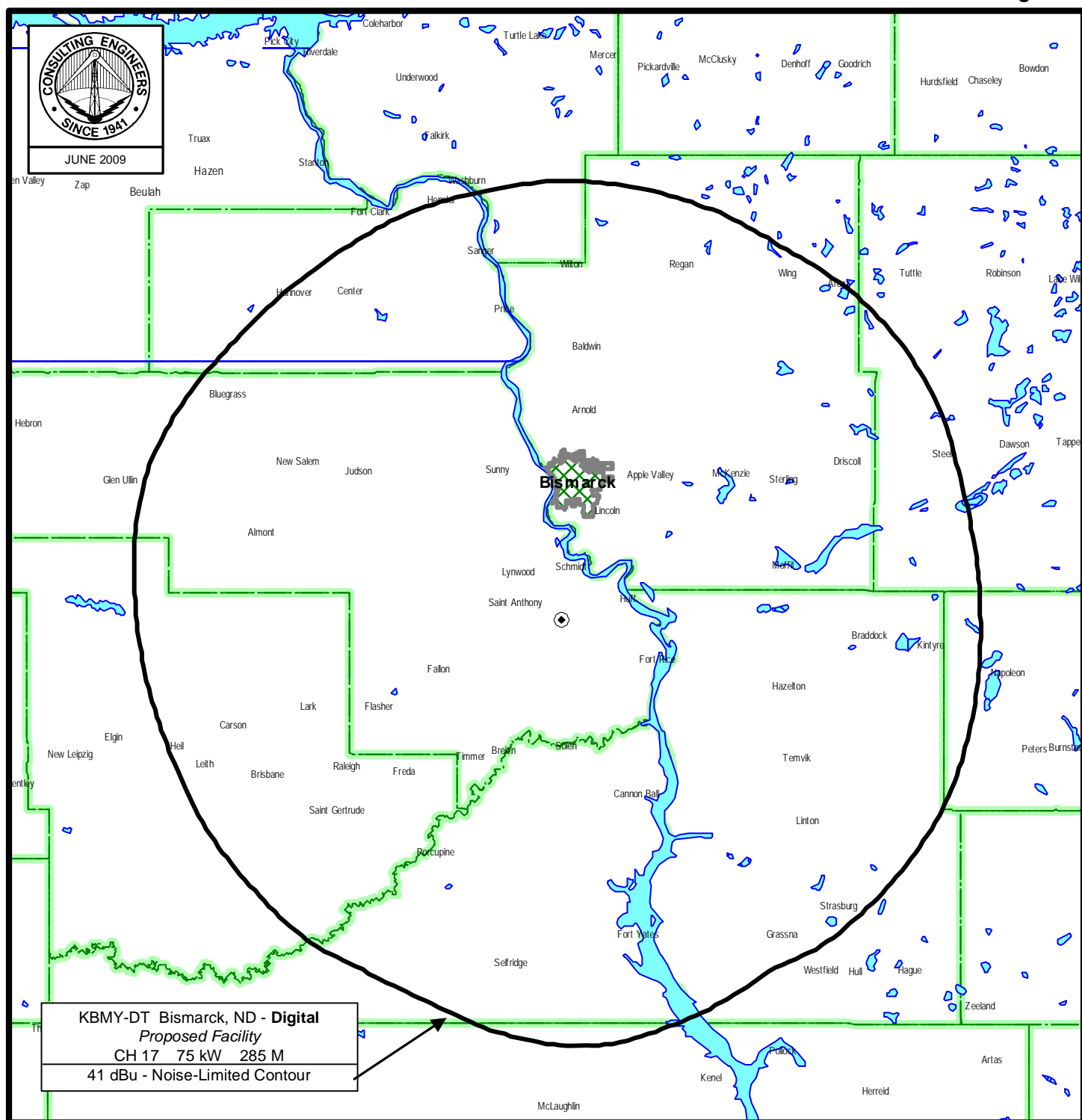


ANTENNA AND SUPPORTING STRUCTURE

DTV STATION KBMY(DT)
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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



The image displays two horizontal number lines. The top number line is labeled 'miles' at the right end and has major tick marks every 10 units from 0 to 100. The bottom number line is labeled 'kilometers' at the right end and has major tick marks every 10 units from 0 to 150. Vertical lines connect corresponding tick marks between the two scales, illustrating the conversion factor where 1 mile equals 1.6 kilometers.

FCC PREDICTED COVERAGE CONTOURS

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