

# North-Central Christian Broadcasting (NCCB) / WNCB 89.3 FM

425 West Superior Street, Suite 300  
Duluth, MN 55802



Great Music, Encouraging Your Heart

Phone: 218-722-3017

Fax: 218-722-1650

## Exhibit 9 Comparing Proposed Facility with Actual Facility

(Brookings, SD Proposal)

10/1/01

Actual facility was constructed exactly as proposed in the underlying construction permit with *one exception: different transmission cable*. While the ERP remains the same, the TPO is increased as indicated below:

ERP = TPO x Antenna Gain (G) x Rated Efficiency (E) of the cable and length used @ operating frequency.

(G for the Cablewave ECFM-2 2 bay antenna is .9000)

### ERP Calculation using originally proposed cable:

Original cable: 7.6 meters of Cablewave Type no FLC12-50J. E = .9603.

**Proposed TPO: 289 watts.** ERP: 250 watts (289 x .9 x .9603.)

### ERP Calculation using Actual cable:

Actual cable used: 6 meters of Belden #8214 (RG-8.) E = .9247

**Actual TPO: 300 watts.** ERP: 250 watts (300 x .9 x .9247.)