

# Bethany Church of Lincoln County

Beloit, KS

## Fair Distribution of Service

The applicant certifies that it qualifies for Section 307(b) Fair Distribution of Service preferences in the following category:

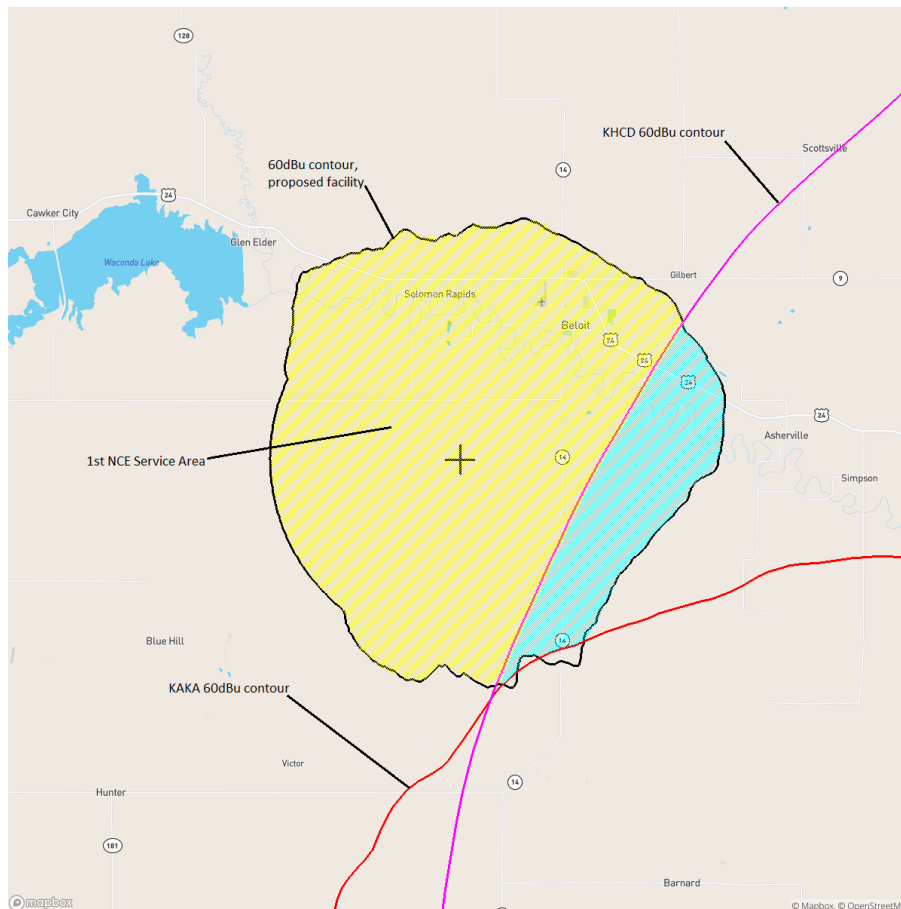
**1<sup>st</sup> NCE Service.** The proposed facility will serve a population of 4,331 and an area of 445.28 sq km within its 60dBμ service contour, and will provide a 1st NCE service to 4,292 persons, or 99.1 percent of the population and 368.96 sq km, or 82.9 percent of the its 60dBμ contour.

Stations considered:

KAKA (channel 203C2, Salina, KS, Facility ID 81549). This station serves no population and 1.60 sq km (0.4%) within the 60dBμ contour of the proposed facility

KHCD (channel 208C1, Salina, KS, Facility ID 28156). This station serves 39 persons, (0.9%) and 74.72 sq km (16.8%) of the 60dBμ contour of the proposed facility.

The map below shows the area of coverage for 1<sup>st</sup> NCE service:



Contour distances were calculated by using the contour calculation methods of 47 C.F.R. §73.313(c) referencing the NDGC 30 sec terrain database for elevation data, as implemented in the Commission's TVFMFS Fortran computer program. Contour distances from the proposed facility were calculated for each integral radial degree (360 total), with linear interpolation between values. Population data used block-level census populations from the US 2010 Census, counting all population using the centroid method approved by the Commission. Area was calculated by scanning for latitude/longitude points within the contour using a 0.04 sq km resolution, then adding the results together, excluding large bodies of water.