

# Heritage Baptist Church

Burlington, IA

## Fair Distribution of Service

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

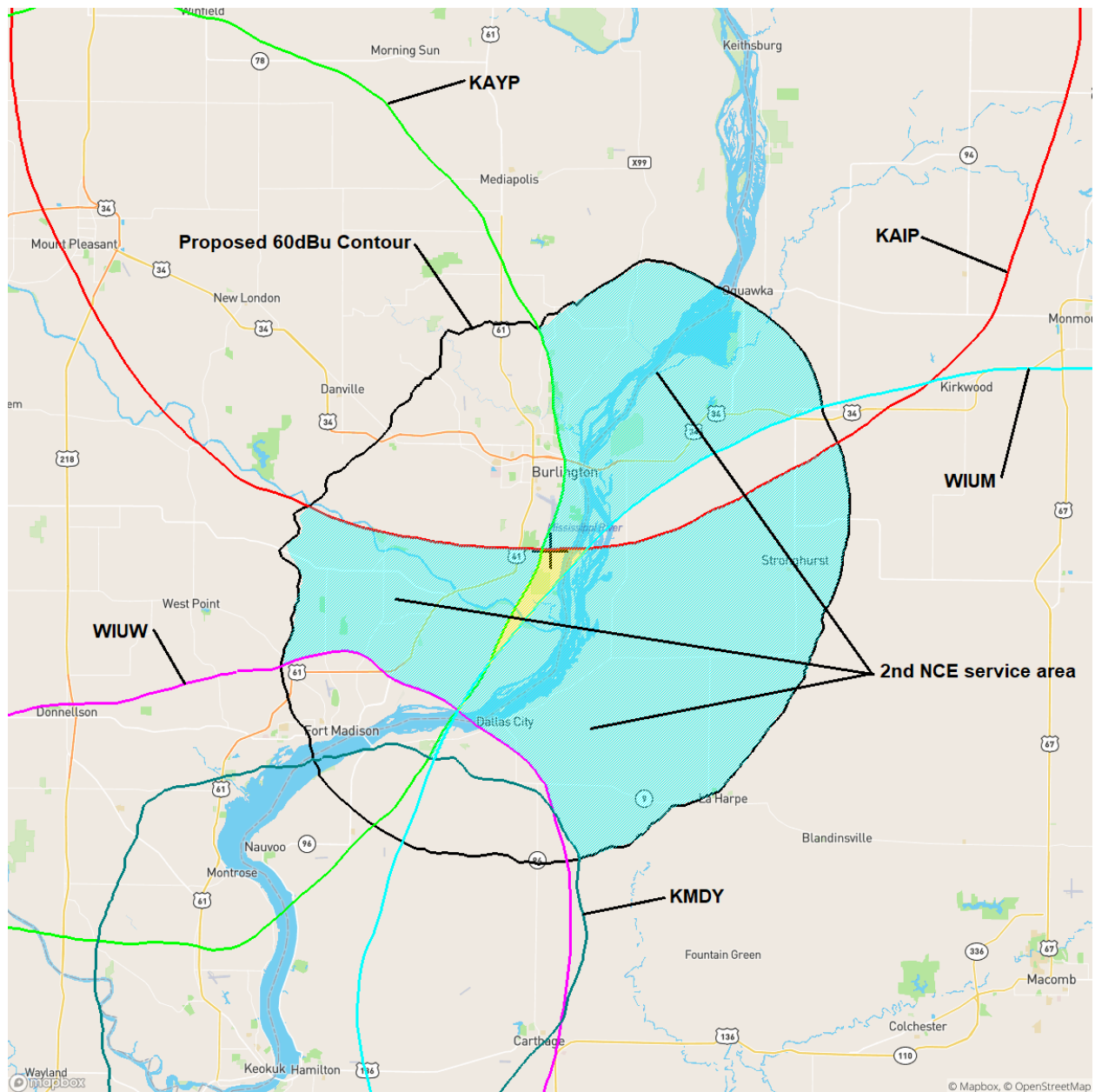
**2nd NCE Service.** The proposed facility will serve a population of 52,795 and an area of 1,508.84 sq km within its 60dBu service contour, and will provide a 2nd NCE service to 22,700 persons (42.10%) and 988.44 sq km (65.5%).

**Aggregated 1<sup>st</sup> and 2<sup>nd</sup> NCE Service.** Adding both 1<sup>st</sup> and 2<sup>nd</sup> NCE service together, the proposed facility will provide aggregated coverage to 22,901 persons (42.50%) and 1,004.24 sq km (66.5%) of the proposed coverage area.

Stations considered:

STATIONS CONSIDERED							
-----OVERLAP-----							
CALLSIGN	CHAN	POPULATION	PCT	AREA		PCT	FAC ID
KAIP	205C2	34,629	67.7	555.64	sq km	38.3	122025
WIUW	208B1	10,307	20.2	200.100	sq km	13.9	71792
KAYP	210C3	29,989	58.6	494.52	sq km	34.1	86561
KMDY	215B1	601	1.2	106.40	sq km	7.3	84893
WIUM	217B	4,542	8.9	652.16	sq km	44.10	71791

The map below shows the area of coverage for 2nd 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.