

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KDSM LICENSEE, LLC, licensee of full-power television station KDSM-TV, Channel 16 in Des Moines, Iowa, in support of its request for Special Temporary Authority to operate the station with the ATSC 3.0 transmission standard and transfer its secondary ATSC 1.0 programming streams to KCCI(TV), Channel 8 in Des Moines and KDIN-TV, Channel 11 in Des Moines. It is important to note that the primary programming stream of KDSM-TV will be transmitted by WHO-DT, Channel 13 in Des Moines, Iowa, and the engineering support for that proposal is contained in the KDSM-TV Application for Modification of License to convert to ATSC 3.0 operation.

Exhibit B is a map upon which the KDSM-TV dipole-adjusted noise-limited service contour and the KCCI(TV) 36 dBu service contour are plotted. As shown, the entire KDSM-TV service contour is contained within that of KCCI(TV). Therefore, no “loss area” population will be created as a result of the transfer of KDSM-TV’s secondary ATSC 1.0 programming to KCCI(TV). In addition, a significant amount of gain area, containing 74,296 people according to the 2020 U.S. Census, will be created by a move of the ATSC 1.0 secondary streams to station KCCI(TV).

KCCI(TV) also places a 43 dBu city-grade service contour over the entirety of the KDSM-TV city of license, Des Moines, Iowa, as shown in Exhibit C. This is not unexpected since KCCI(TV) is licensed to the same community within the same Designated Market Area (DMA) as KDSM-TV. Thus, the instant proposal meets the requirements of Section 73.3801(c) of the Commission’s Rules.

EXHIBIT A

Exhibit D is a map upon which the KDSM-TV dipole-adjusted noise-limited service contour and the KDIN-TV 36 dBu service contour are plotted. As shown, a significant majority of the KDSM-TV service contour overlaps that of KDIN-TV. Indeed, the “loss area” population that will be created as a result of the transfer of KDSM-TV’s secondary ATSC 1.0 programming to KDIN-TV is very small, amounting to only 1.3% of the total service population of KDSM-TV, according to the 2020 U.S. Census. It is important to note that a significant amount of gain area, containing 3,871 people, will be created by a move of the ATSC 1.0 secondary streams to station KDIN-TV.

KDIN-TV also places a 43 dBu city-grade service contour over the entirety of the KDSM-TV city of license, Des Moines, Iowa, as shown in Exhibit E. As is the case with KCCI(TV), KDIN-TV is licensed to same community within the same Designated Market Area (DMA) as KDSM-TV, Des Moines, Iowa. Thus, the instant proposal meets the requirements of Section 73.3801(c) of the Commission’s Rules.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher", with a stylized flourish at the end.

KEVIN T. FISHER

February 23, 2023

CONTOUR POPULATION : 2020 U.S. CENSUS DATA

KDSM-TV : 1,205,379 (523,107 HH)

KCCI(TV) (Host) : 1,279,675 (556,511 HH)

Common Area Population :1,205,379 (100% of KDSM Contour Population)

KDSM-TV Programming Loss Area Population: 0

KDSM-TV Programming Gain Area Population: 74,296

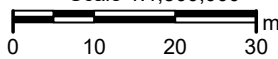
SMITH AND FISHER, LLC

**KCCI(TV) CH. 8
N/L FCC CONTOUR**

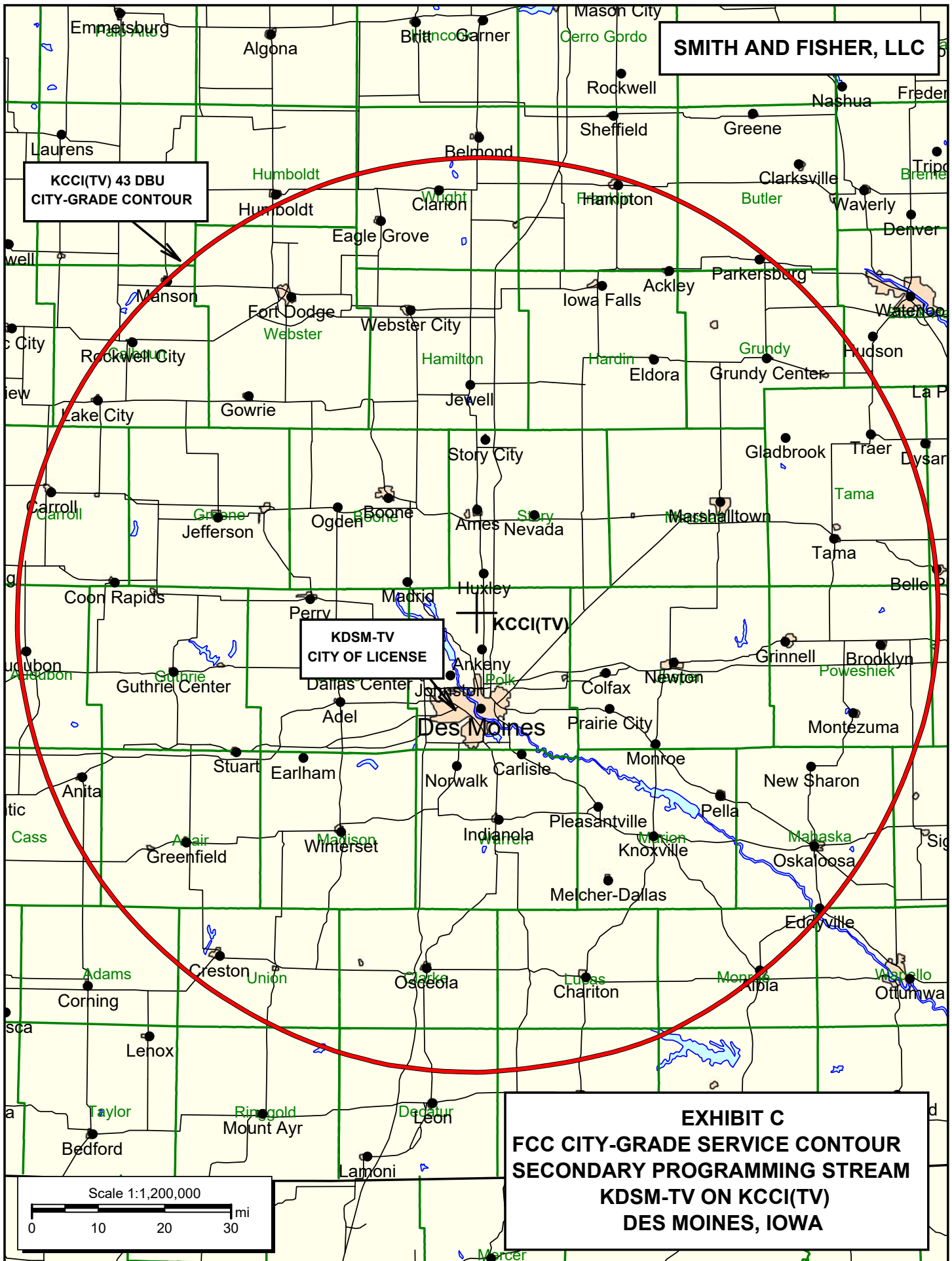
**KDSM-TV CH. 16
N/L FCC CONTOUR**

**KCCI(TV)
KDSM-TV
Des Moines**

Scale 1:1,500,000



**EXHIBIT B
FCC SERVICE CONTOUR COMPARISON
SECONDARY PROGRAMMING STREAM
KDSM-TV, CH. 16 ON KCCI(TV), CH. 8
DES MOINES, IOWA**



CONTOUR POPULATION : 2020 U.S. CENSUS DATA

KDSM-TV : 1,205,379 (523,107 HH)

KDIN-TV (Host) : 1,193,199 (517,833 HH)

Common Area Population : 1,189,328 (98.7% of KDSM Contour Population)

KDSM-TV Programming Loss Area Population: 16,051 (1.3%)

KDSM-TV Programming Gain Area Population: 3,871

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