

ENGINEERING STATEMENT  
AMENDMENT OF APPLICATION FOR CONSTRUCTION PERMIT  
TELEVISION STATION KYTV-DT  
SPRINGFIELD, MISSOURI  
CHANNEL 44 967 KW 628 M

Engineering Statement

This Engineering Statement was prepared on behalf of television broadcast station KYTV-DT, Springfield, Missouri, in support of an amendment to its pending application for modification of construction permit (See FCC File No. BPCDT-19990927AAY). The purpose of the instant amendment is to revise the proposed antenna and structure elevations and to supply FCC antenna structure registration information. No other changes are proposed.

Tower Registration

The proposed antenna structure was registered with the FCC. The FCC antenna structure registration number is 1218324. The tower is located on Highway FF, 1.1 km north of Fordland, Missouri. The tower site elevation is 471.5 m above mean sea level with an overall antenna structure height above ground of 609.4 m.

Proposed Transmitter Site

The transmitter site coordinates remain correct and are unchanged. The antenna radiation center height above ground has been reduced by 1 m to 602 m and the

antenna radiation center height above average terrain (HAAT) has thereby been reduced by 1 m to 628 m.

#### Predicted Coverage Contours

The predicted f(50,90) coverage contours for the proposed facility were calculated in accordance with the FCC Rules. The 3-16 km terrain data were obtained through use of the U.S.G.S. 3-second computer database. Figure 1A is a tabulation of the 3-16-km terrain averages and the distances to the predicted coverage contours. The predicted coverage contours are projected on a map included herein as Figure 2A. As indicated, the predicted 48 dBu, f(50,90) contour encompasses the entire community of Springfield in compliance with Section 73.625 of the FCC Rules.

#### Environmental Considerations

There is no change in the environmental considerations as it relates to the potential for human exposure to radio frequency (RF) radiation. The radiation center height above ground has not been changed and the calculated RF exposure at 2-m above ground level is unchanged at 0.21% of the FCC limit for general population / uncontrolled exposure.

Louis Robert du Treil, Jr.

February 27, 2001

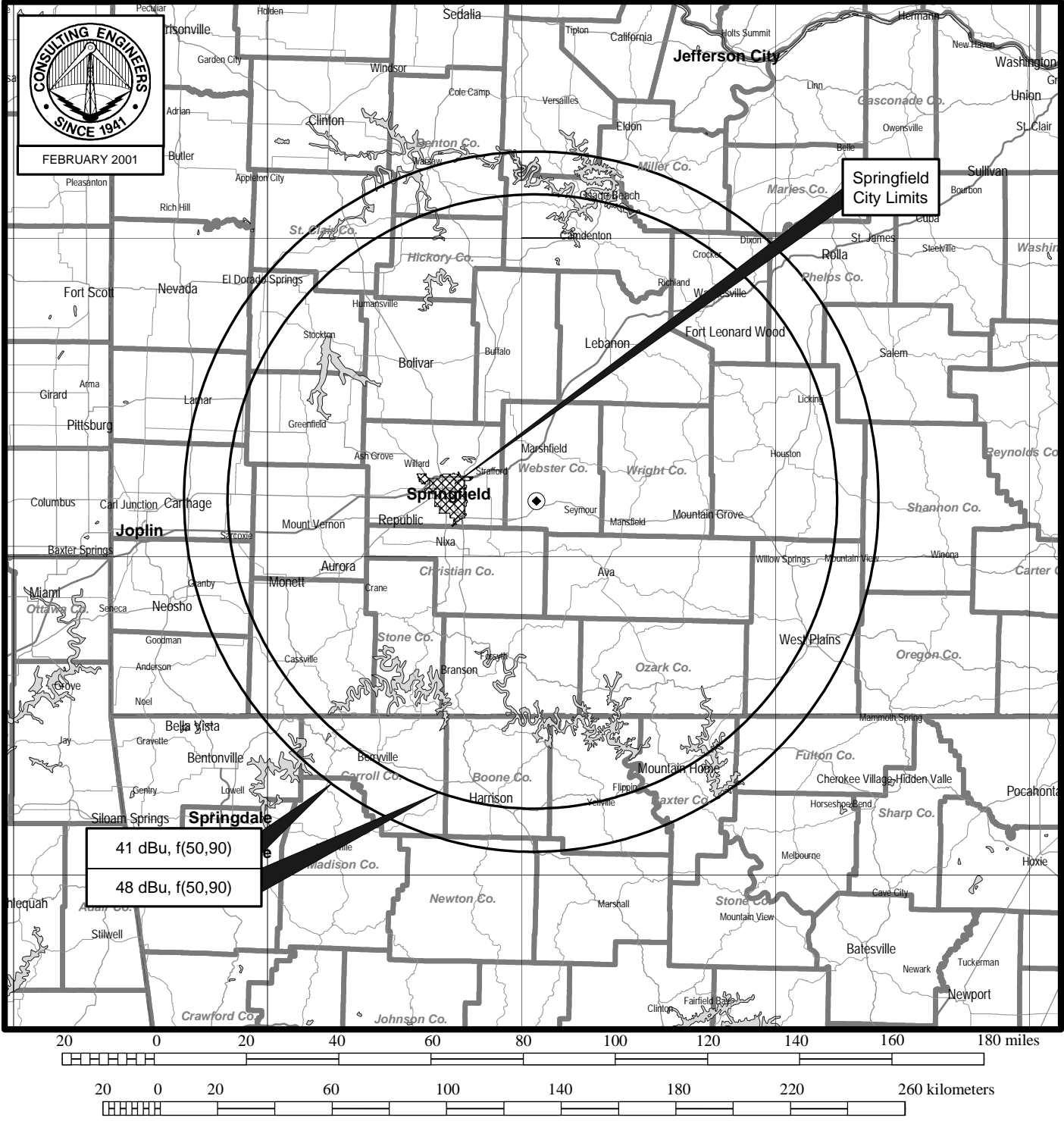
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Tabulation of Average Elevations and  
Distances to Predicted Coverage Contours

Azimuth (deg.T)	3-16 km Average Terrain (m)	Antenna HAAT (m)	ERP (kW)	48 dBu f(50,90) Contour (km)	41 dBu f(50,90) Contour (km)
0	439	635	967	107.2	122.2
45	455	619	967	106.5	121.3
90	487	587	967	105.0	119.5
135	458	616	967	106.4	121.1
180	435	639	967	107.4	122.4
225	441	633	967	107.1	122.1
270	423	651	967	107.9	123.1
315	430	644	967	107.6	122.7

Note: The 3-16-km average terrain is 446 m based on the eight conventional radials (0°, 45°, 90°, etc.) as derived from the U.S.G.S. 3-second terrain database. The overall antenna radiation center height above average terrain is 628 m based on the eight conventional radials.

Figure 2A



## PREDICTED COVERAGE CONTOURS

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