

Exhibit 19 Page 1
Athens Christian Radio, Inc.
NCE FM Interference Area to TV 6
Thomson, Georgia

The purpose of this exhibit is to show compliance with §73.525 of the Commission's Rules. The Rules require that an applicant proposing operation on FM Channel 218, whose antenna location is less than 166 kilometers from a television Channel 6 facility, furnish a map and an engineering statement, with calculations, demonstrating compliance with the Rules with regard to interference to the reception of television channel 6. There are three affected TV 6 stations.

1. WCES-DT - 57 km distant
2. WCES-TV - 57 km distant
3. WJBF - 89 km distant

Therefore, WCES-DT, WCES-TV, and WJBF must receive consideration.

First, the relative HAAT figures were generated for WCES-DT, WCES-TV, and WJBF using the NGDC 30 Second Database and the data from the FCC TV Database. The distance to the WCES-DT, WCES-TV, and WJBF contours were predicted according to the procedures specified in §73.684 of the Commission's Rules, "Prediction of Coverage," using the F(50,50) curves in Figure 9 of §73.699.

For each WCES-DT, WCES-TV, and WJBF television channel 6 field strength contours, the associated F(50,10) FM interference contours were obtained from Figure 1 of §73.599. The distances to the applicable NCE-FM interference contours were predicted according to the procedures specified in "Prediction of Coverage," using the F(50,10) curves in Figure 1 of §73.333 of the Rules. Radials were then computed every 5 degrees from the proposed new NCE-FM site to the point at which interference stops occurring.

A table of the proposed new NCE-FM F(50,10) interfering contours to the WCES-DT, WCES-TV, and WJBF Television Channel 6 F(50,50) protected contours may be seen as Table 1, 2, and 3 of this exhibit.

These calculations are based on the appropriate F(50,50), F(50,10) and FM/TV 6 protection ratio curves for an NCE-FM station operating with facilities of 12 kilowatts ERP at 79 meters HAAT. Free space calculations were used when computing the field strength for distances less than 1 mile.

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The applicant chooses to use circular polarization and adjustments for vertical only polarization or television receiving antenna directivity have not been utilized.

A map of the proposed new NCE-FM F(50,10) interfering contours to the WCES-DT, WCES-TV, and WJBF television channel 6 F(50,50) protected contours may be seen as Figure 1 of this exhibit.

A map of the proposed new NCE-FM F(50,10) interfering contours to the WCES-DT television channel 6 F(50,50) protected contours may be seen as Figure 2 of this exhibit. The total area receiving interference is 168 square kilometers within the WJBF protected contour. The total population (2000 Census) receiving interference is 385 persons.

The population receiving interference is less than 3,000 persons.

A map of the proposed new NCE-FM F(50,10) interfering contours to the WCES-TV television channel 6 F(50,50) protected contours may be seen as Figure 3 of this exhibit. The total area receiving interference is 29 square kilometers within the WJBF protected contour. The total population (2000 Census) receiving interference is 8 persons.

The population receiving interference is less than 3,000 persons.

A map of the proposed new NCE-FM F(50,10) interfering contours to the WJBF television channel 6 F(50,50) protected contours may be seen as Figure 4 of this exhibit. The total area receiving interference is 168 square kilometers within the WJBF protected contour. The total population (2000 Census) receiving interference is 385 persons.

The population receiving interference is less than 3,000 persons.

Because the population receiving interference is less than 3,000 persons, the application complies with §73.525 of the Commission's Rules as pertains to interference to the reception of TV Channel 6 by NCE-FM stations.

Exhibit 19 Table 1
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NCE FM Interference to WCES-DT TV 6
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TV Contour dB	U/D Ratio dB	FM Contour dB
57.00	20.00	77.00
58.00	19.00	77.00
59.00	18.25	77.25
60.00	17.25	77.25
61.00	16.50	77.50
62.00	15.75	77.75
63.00	14.75	77.75
64.00	14.25	78.25
65.00	13.50	78.50

Exhibit 19 Table 2
Athens Christian Radio, Inc.
NCE FM Interference to WCES-TV TV 6
Thomson, Georgia

TV Contour dB	U/D Ratio dB	FM Contour dB
47.00	32.50	79.50
48.00	31.00	79.00
49.00	29.50	78.50
50.00	28.25	78.25
51.00	27.00	78.00
52.00	25.75	77.75
53.00	24.50	77.50
54.00	23.25	77.25
55.00	22.25	77.25

Exhibit 19 Table 3
Athens Christian Radio, Inc.
NCE FM Interference to WJBF TV 6
Thomson, Georgia

TV Contour dB	U/D Ratio dB	FM Contour dB
57.00	20.00	77.00
58.00	19.00	77.00
59.00	18.25	77.25
60.00	17.25	77.25
61.00	16.50	77.50
62.00	15.75	77.75
63.00	14.75	77.75
64.00	14.25	78.25
65.00	13.50	78.50

Interference Area to TV 6

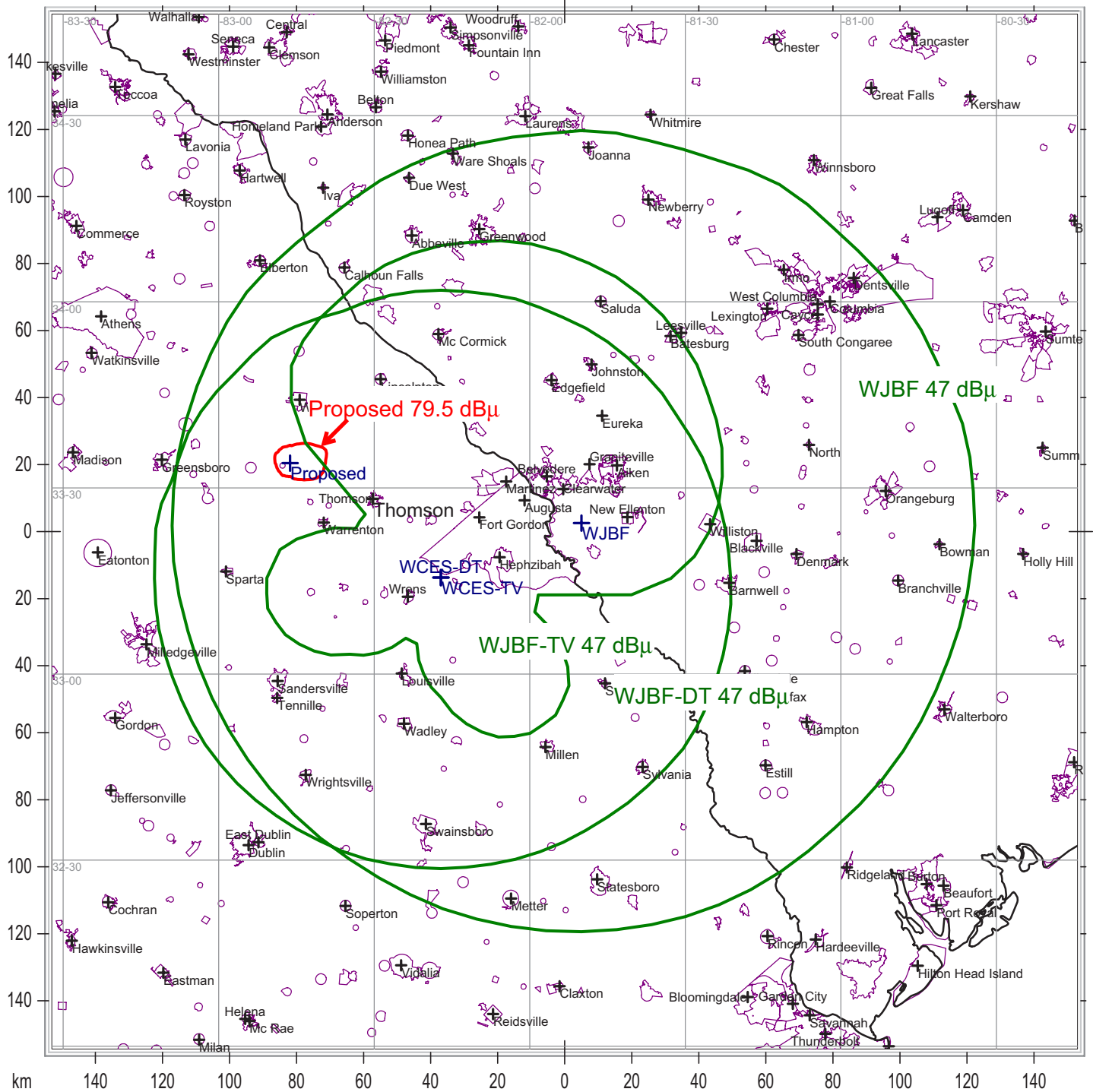


Exhibit 19 Figure 1
Athens Christian Radio, Inc.
Interference Area to TV 6
Thomson, Georgia

State Borders City Borders Lat/Lon Grid

Interference Area to WCES-DT TV 6

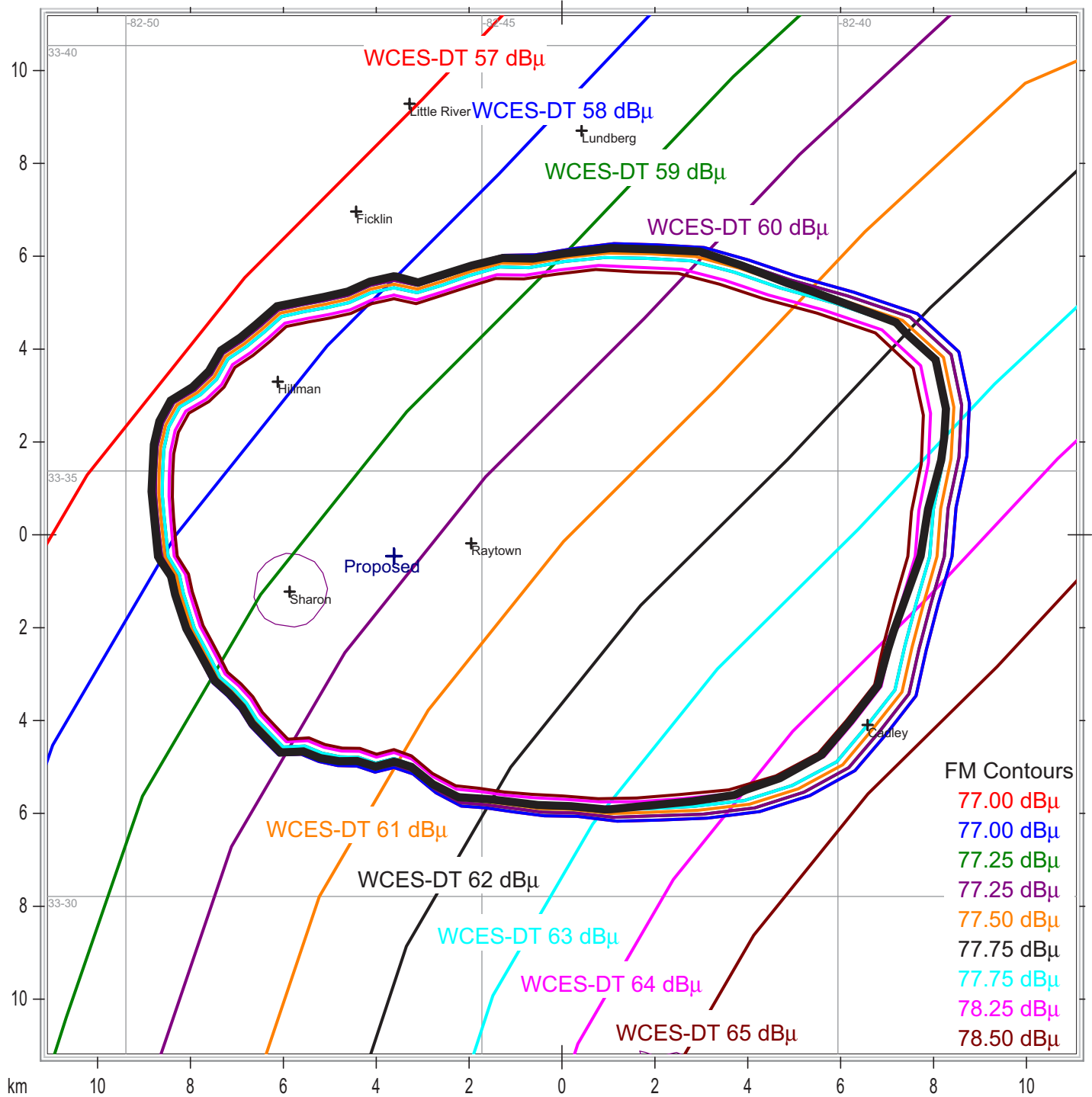


Exhibit 19 Figure 2
Athens Christian Radio, Inc.
Interference Area to WCES-DT TV 6
Thomson, Georgia

State Borders City Borders Lat/Lon Grid

Interference Area to WCES-TV TV 6

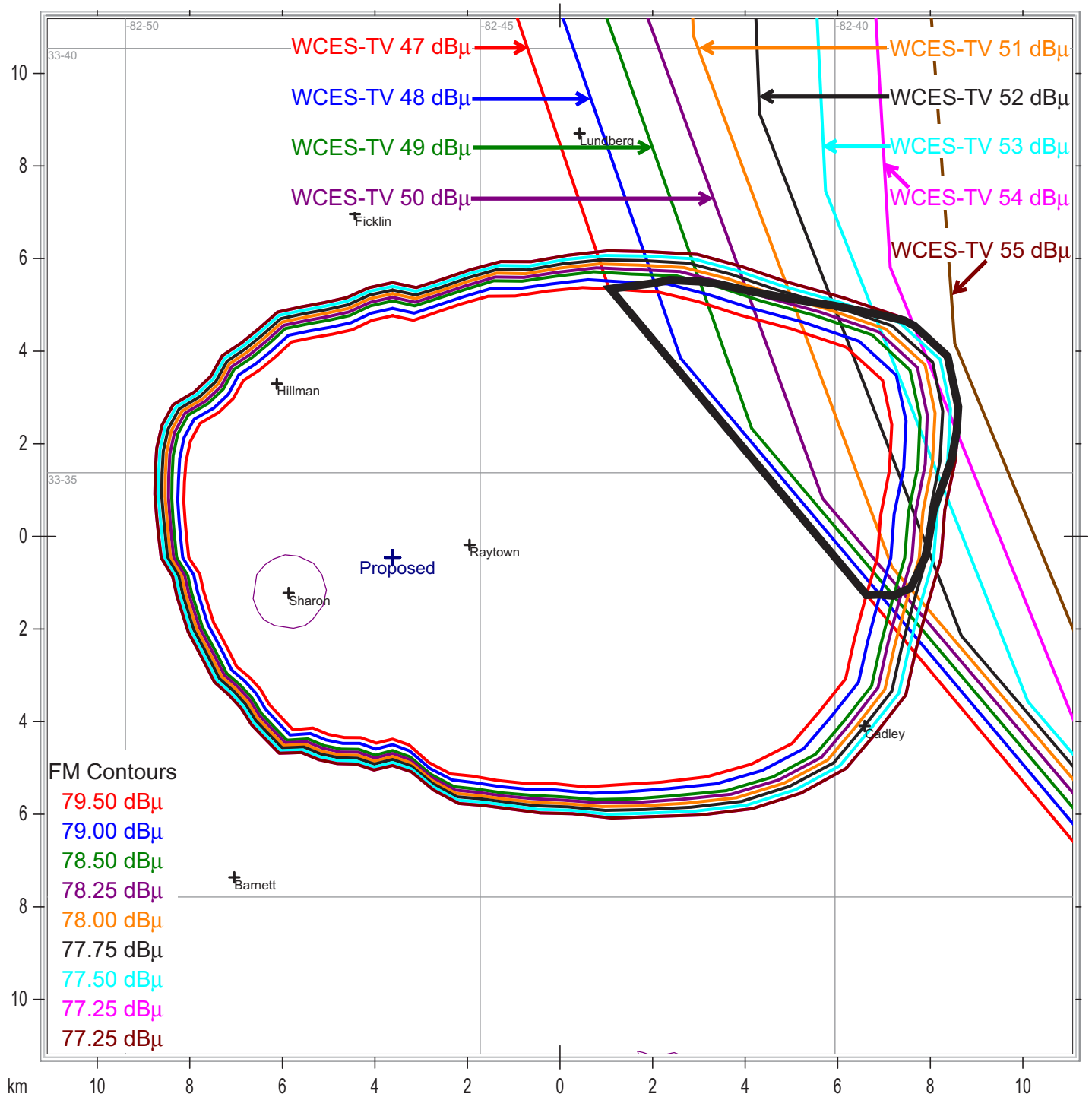


Exhibit 19 Figure 3
Athens Christian Radio, Inc.
Interference Area to WCES-TV TV 6
Thomson, Georgia

State Borders City Borders Lat/Lon Grid

Interference Area to WJBF TV 6

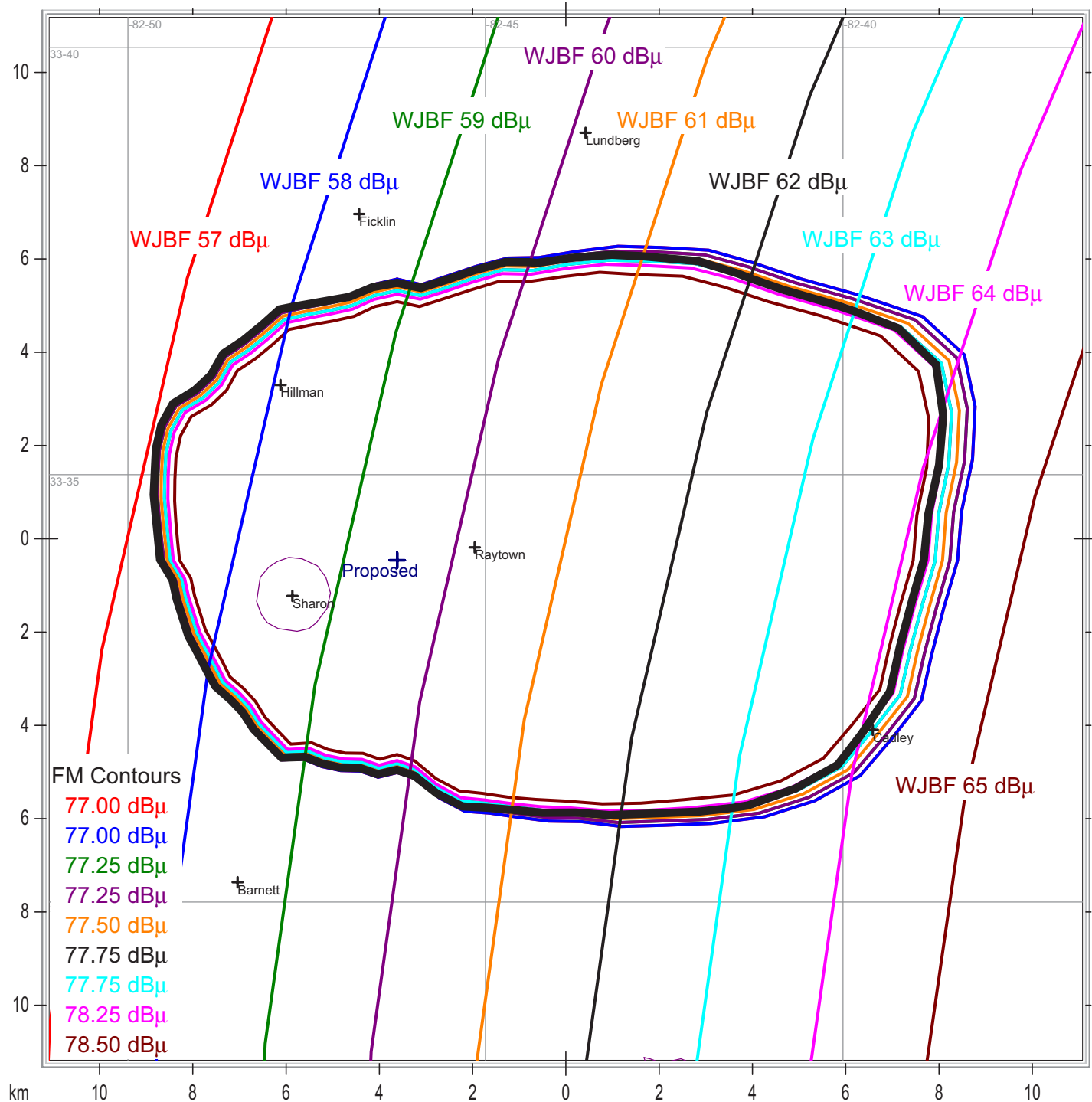


Exhibit 19 Figure 4
Athens Christian Radio, Inc.
Interference Area to WJBF TV 6
Thomson, Georgia

State Borders City Borders Lat/Lon Grid