

VIRGINIA TECH FOUNDATION, INCORPORATED

WVTW

CHARLOTTESVILLE, VIRGINIA

TABLE OF CONTENTS

(ALL OF THE FOLLOWING ITEMS ARE IN EXHIBIT 15.)

NARRATIVE

CHANNEL STUDY

CONTOUR CLEARANCE MAP WVTW vs WRVL	FIGURE 1
CONTOUR CLEARANCE MAP WVTW vs WAMU	FIGURE 2
CONTOUR CLEARANCE MAP WVTW vs WXJM	FIGURE 3
CONTOUR MAP WVTW, WTVR-TV AND WCAV-TV	FIGURE 4
CONTOUR MAP WVTW vs WDTV 47 dBu F(50,50) AND 53.5 dBu F(50,10)	FIGURE 5
CONTOUR MAP WVTW vs WDTV 28 dBu F(50,90) AND 33.5 dBu F(50,10)	FIGURE 5A

VIRGINIA TECH FOUNDATION, INCORPORATED

WVTW

CHARLOTTESVILLE, VIRGINIA

NARRATIVE

The purpose of this application is to change the power of WVTW from 0.120 kilowatt (100 percent vertical polarization) to 1.0 kilowatt (100 percent vertical polarization) and to add a directional antenna. All engineering attachments are in this exhibit.

A Channel Study follows this narrative. As indicated in the study, consideration is given to WRVL, channel 202C1, Lynchburg, Virginia, WAMU, channel 203B, Washington, DC, WXJM, channel 204A, Harrisonburg, Virginia, WTVR, channel 6, Richmond, Virginia and WDTV, channel 6, Weston, West Virginia.

Attached Figures 1, 2 and 3 demonstrate clearance to the appropriate contours of the three FM stations. Figures 4 and 5 are related to the channel six television stations.

Figure 4 shows the 47 dBu F(50,50)(Grade B) and 68 dBu F(50,50) (Grade A) contours of WTVR, the 80 dBu contour F(50,50) (City Grade) contour of WCAV, channel 19, Charlottesville and the proposed 53.5 dBu F(50,10) contour of WVTW. The WVTW contour is calculated at 0.10 kilowatt.

Figure 4 demonstrates that this application meets the requirements of §73.525(e)(3)(iii) in reducing the population receiving interference to less than 3000. As shown, the proposed interfering contour that is inside the WTVR 47 dBu contour is also inside the city-grade contour of WCAV-TV. WCAV is a full-time CBS affiliate as is WTVR. The interfering contour is completely outside the WTVR grade A and outside the Richmond ADI (now DMA) except for Louisa and Buckingham counties. The part of Buckingham that is inside the contour has no census centroid. The portion of Louisa inside the contour contains three centroids with populations of 1355, 226 and 44, for a total of 1625 (2000 census data). The counties of Orange, Albermarle and Fluvanna are outside the Richmond MDA. Based on the above, this application meets the requirements of §73.525 to operate at 0.10 kilowatt insofar as WTVR is concerned.

Based on the provisions of §73.525(e)(4)(i), the applicant elects to use vertical polarization only. There is no city inside the interference area (WTVR 47 dBu) with a population of 50,000, therefore, a multiplier of 40 can be used. The applicant will use a multiplier of 10 for a power of 1.0 kilowatt.

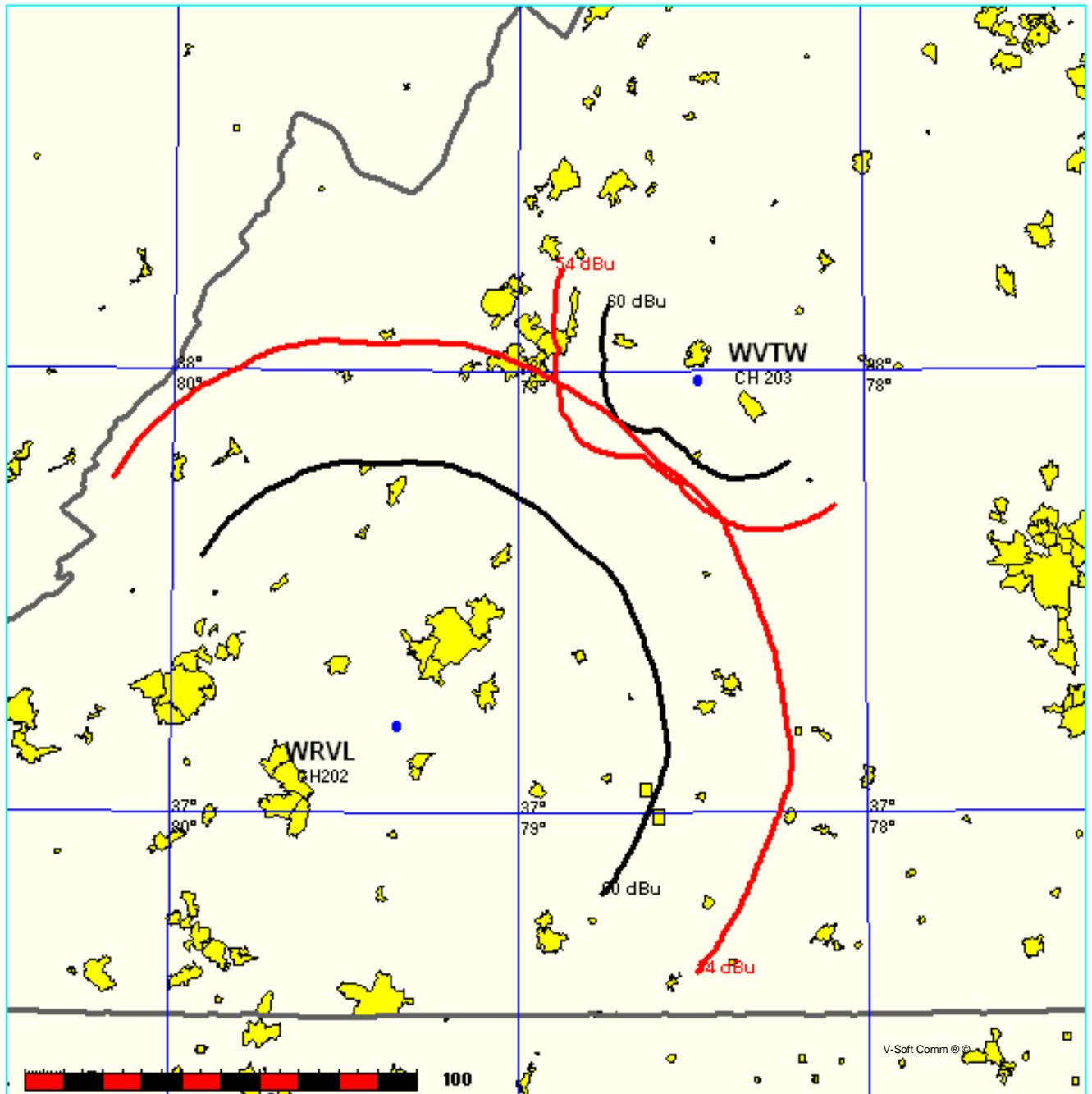
There is a Construction Permit for a Digital Television facility at Weston, West Virginia (BPCDT-19991029AFO3). Protection criteria for FM to digital channel six stations has not been promulgated. Figures 5 and 5A demonstrate that both the 47 dBu F(50,50) and the 28 dBu F(50,90) contours of the authorized facility are protected by this application.

Although clearance could be shown to WDTV using a proposed power of 0.1 kilowatt due to the 100 percent vertical polarization, the contours were calculated using 1.0 kilowatt.

The Radio Frequency Radiation hazard is addressed in Exhibit 22 of Section VII, however, non-engineering matters related to §1.1307 are addressed in Section II (Legal and Financial Information).

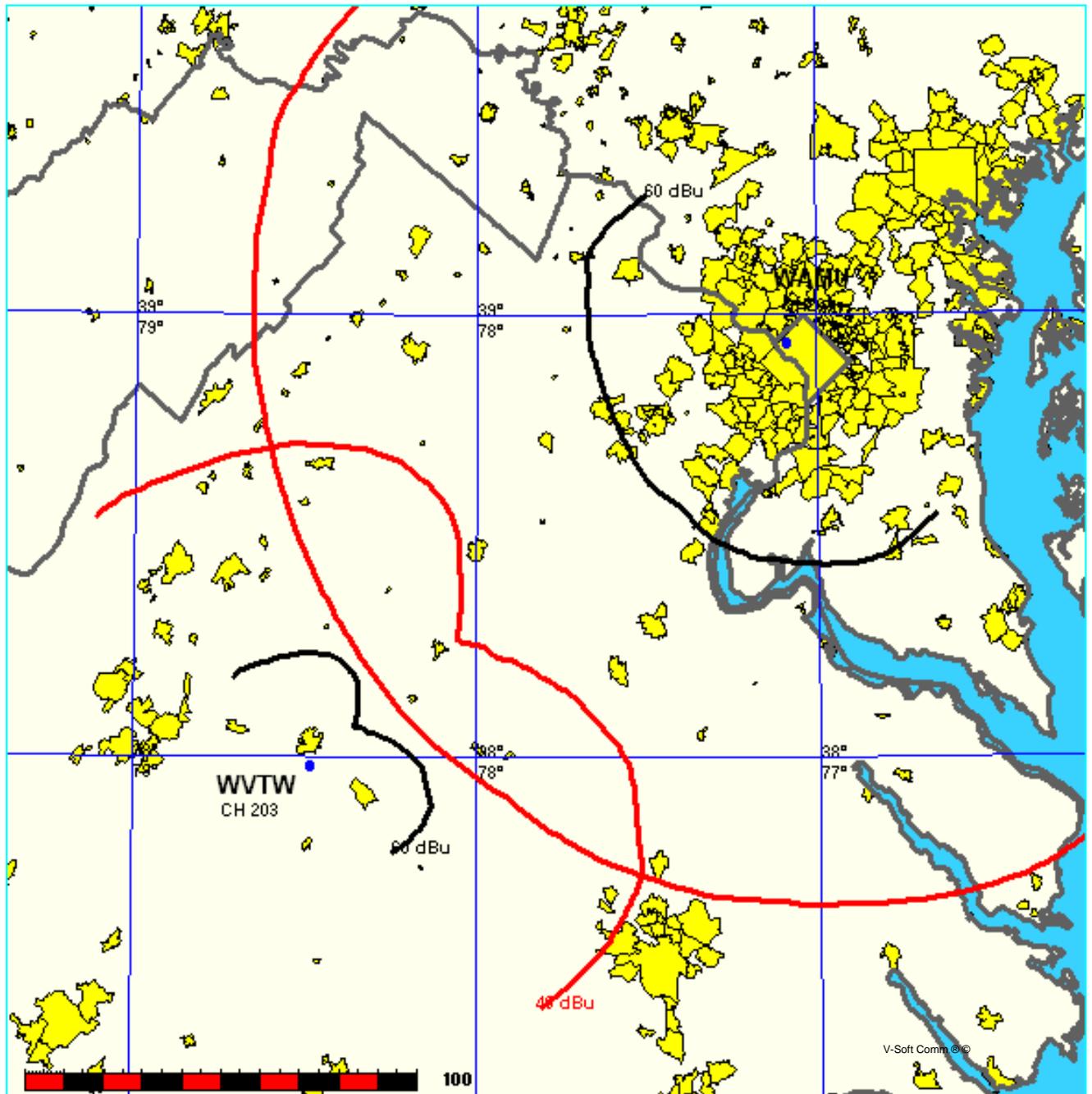
Virginia Tech Foundation, Inc. FIGURE 1
WVTW vs WRVL

FMCommander Allocation Study
10-01-2006



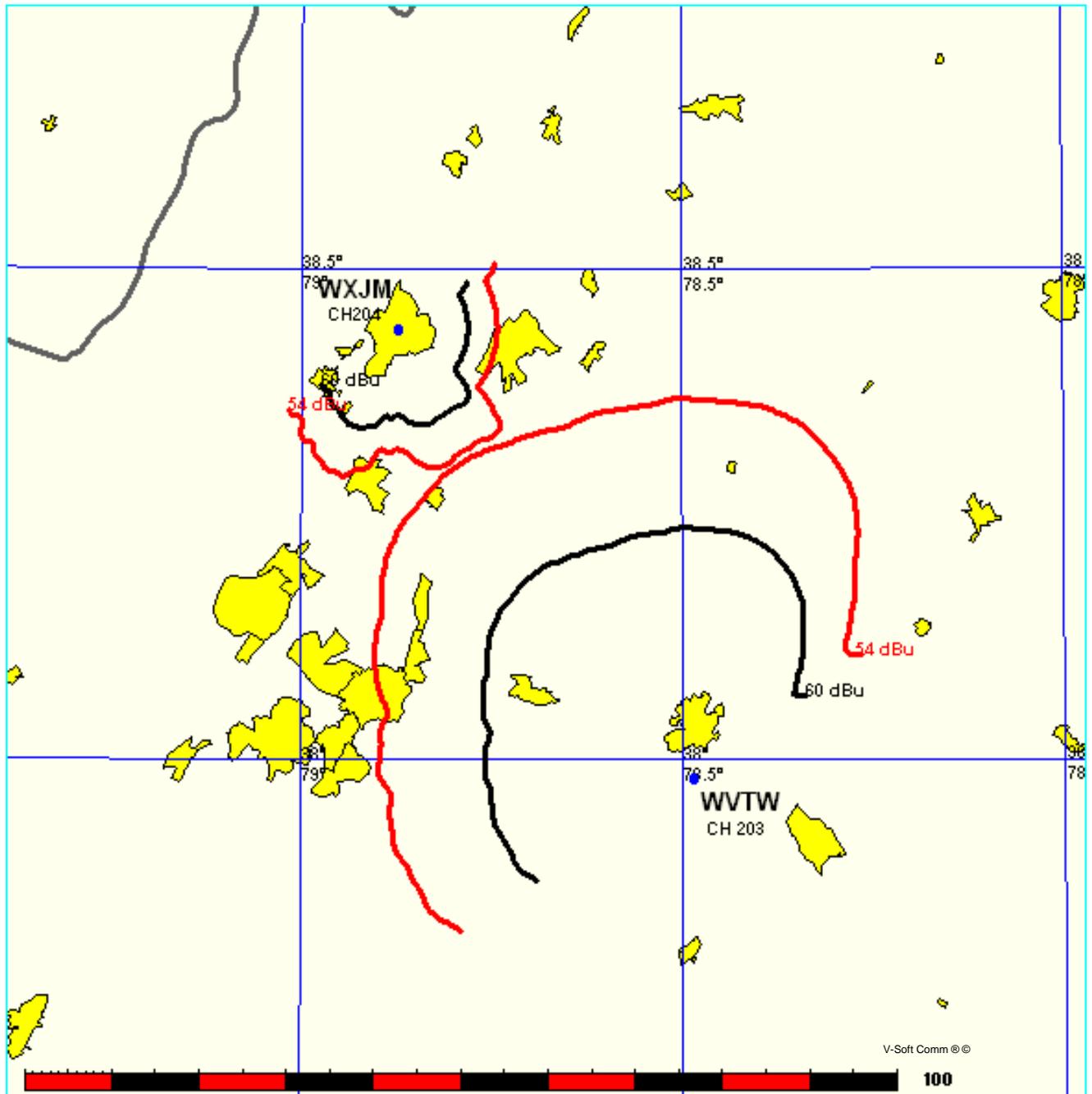
Virginia Tech Foundation, Inc. FIGURE 2
WVTW vs WAMU

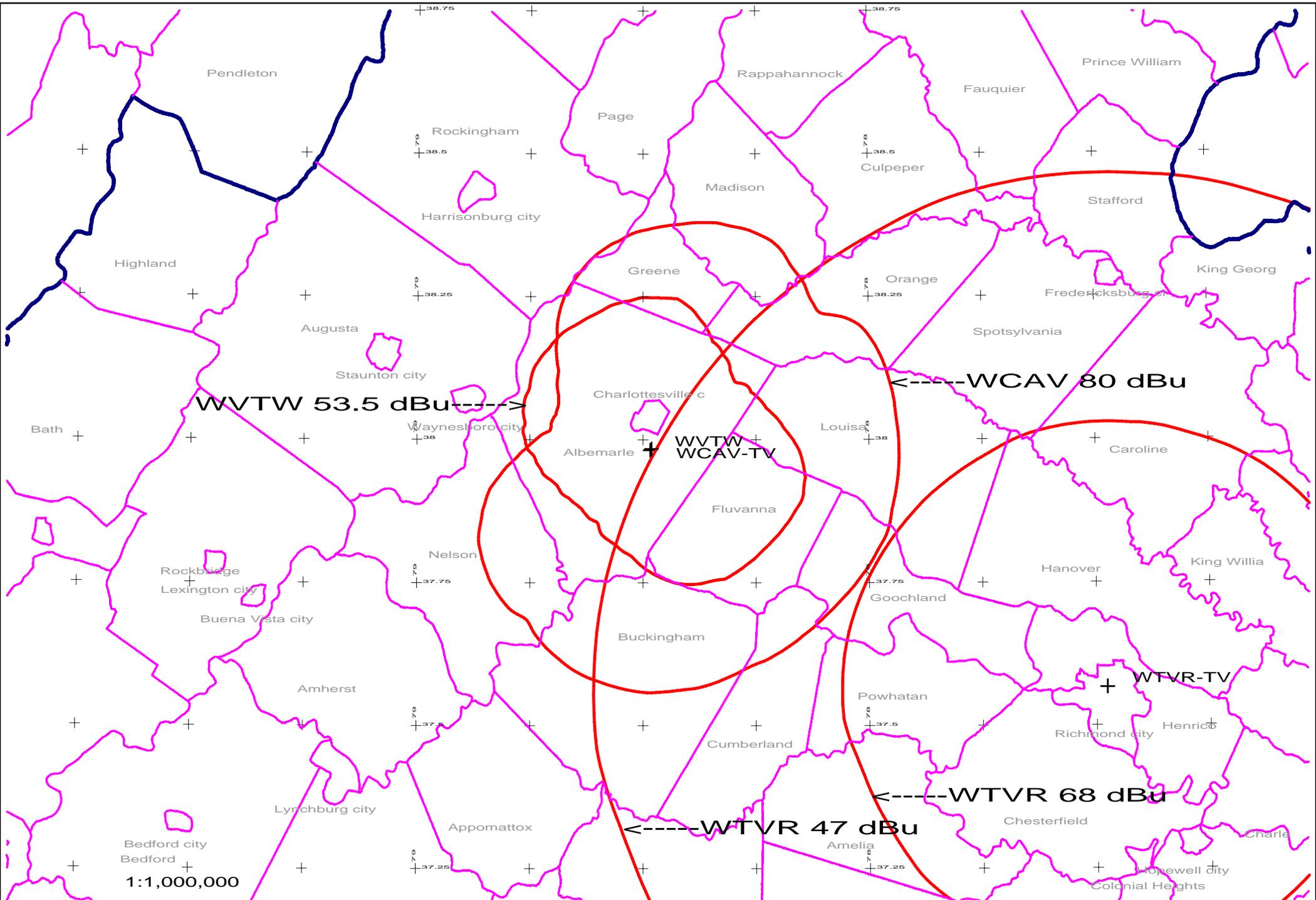
FMCommander Allocation Study
10-01-2006



Virginia Tech Foundation, Inc. FIGURE 3
WVTW vs WXJM

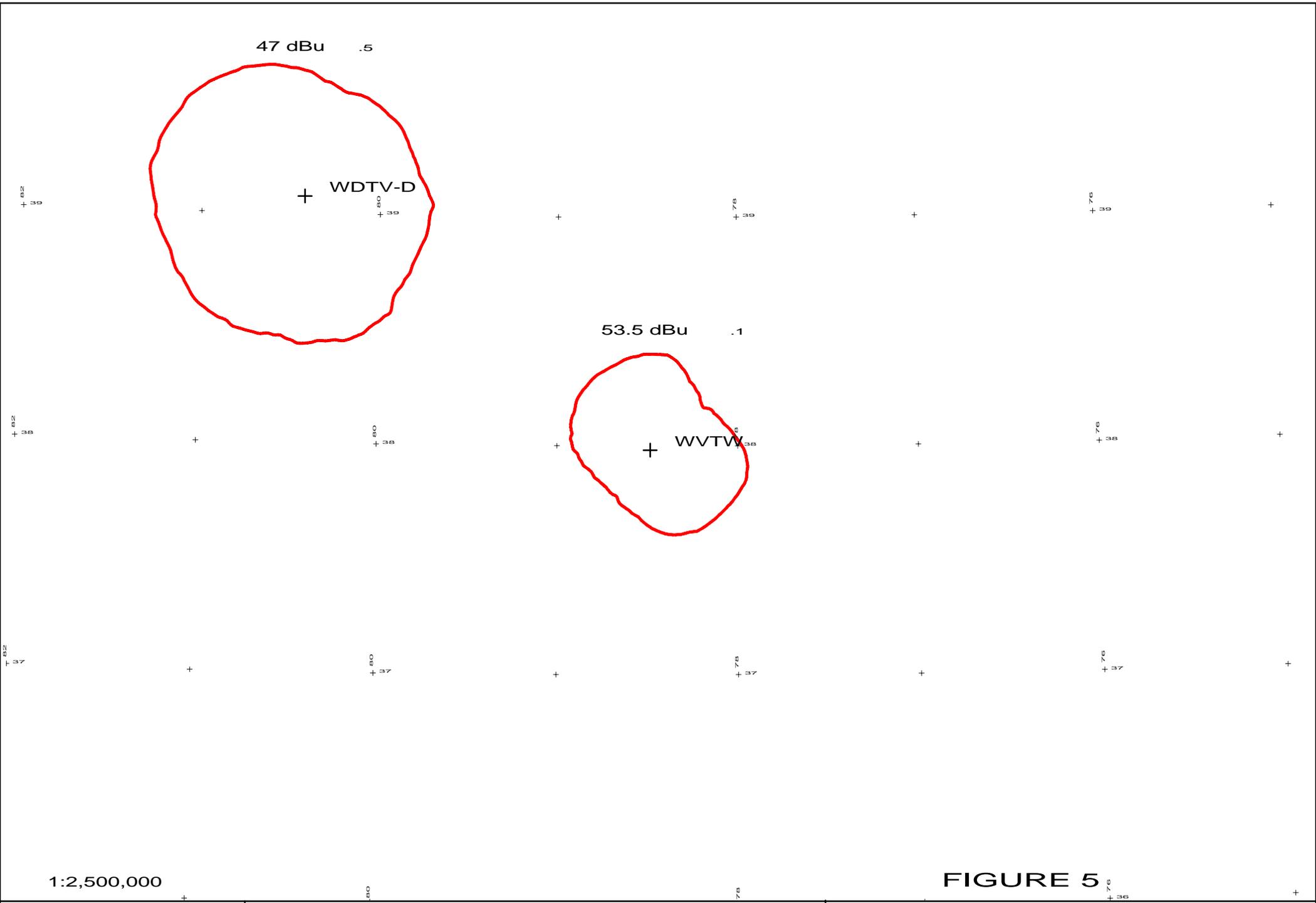
FMCommander Allocation Study
10-01-2006





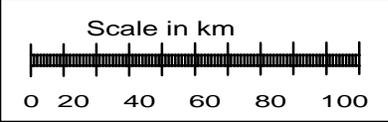
PROPOSED WVTW 53.5 dBu F(50,10), WCAV 80 dBu F(50,50) AND WTVR-TV 47 dBu AND 68 dBu F(50,50),

FIGURE 4
WVTW, CHARLOTTESVILLE



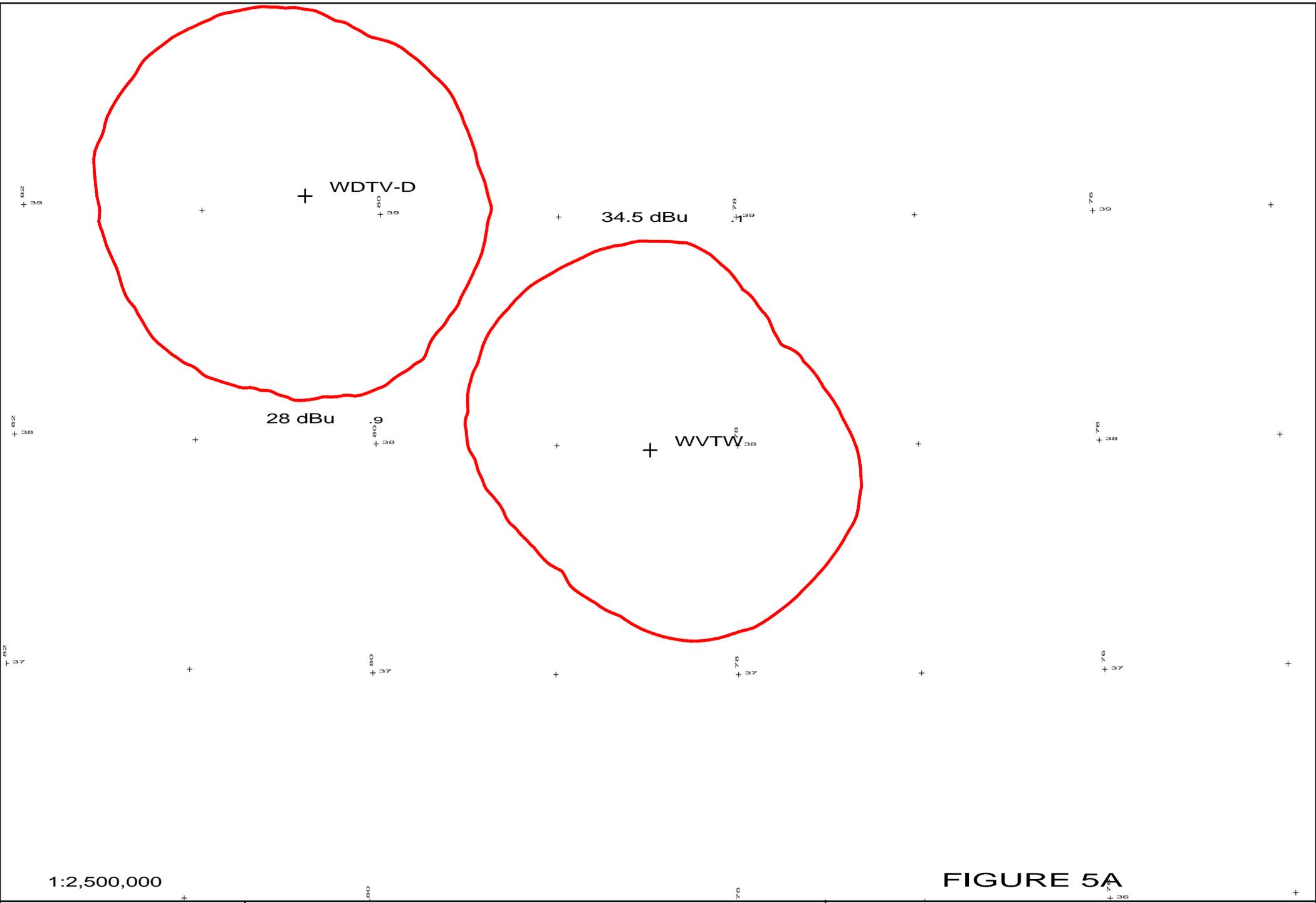
1:2,500,000

FIGURE 5



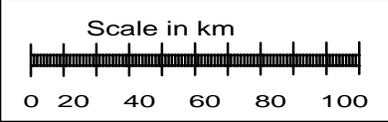
THE PROPOSED WVTW 53.5 dBu F(50,10) AND THE
WDTV (BPCDT-19991029AFO3) 47 dBu F(50,50)

THE VA TECH FOUNDATION
CHARLOTTESVILLE, VA



1:2,500,000

FIGURE 5A



THE PROPOSED WVTW 34.5 dBu F((50,10) AND
 THE WDTV (BPCDT-19991029AFO3) 28 dBu F(50,90)

THE VA TECH FOUNDATION
 CHARLOTTESVILLE, VA