

WAGV, HARLAN, KY - CHANNEL SHARING CP APPLICATIONHOST FACILITY - WLFG (DTS) OPERATION CHANNEL 49HOST FACILITY SERVICE AREA
AND CITY OF LICENSE SERVICE TO WAGV, HARLAN KENTUCKY

The WLFG DTS Channel 49 operation provides the required service to WAGV's city of license (community) from the WLFG's DTS-2 transmitter facility as demonstrated in the attached figures.

Figure 1A

Is a large scale map of the digital television service area provided by the host station WLFG DTS Channel 49 facilities. DTS-1 provides city of license service (48 dBu) to WLFG's city of license, Grundy, Virginia. DTS-2 provides city of license service (48 dBu) to WAGV's, city of license, Harlan, Kentucky.

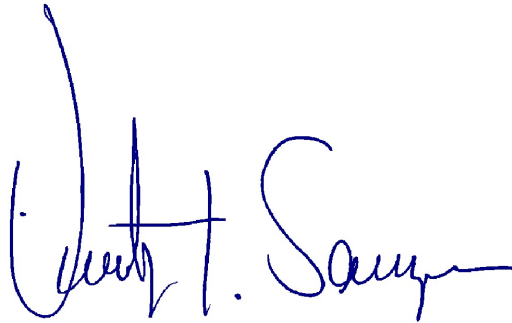
Figure 1B

Is an expanded map view showing the predicted digital service contours from the host station's DTS-2 facility. As shown in this figure, the city of license (Harlan, KY) of WAGV is completely encompassed by the required 48 dBu contour.

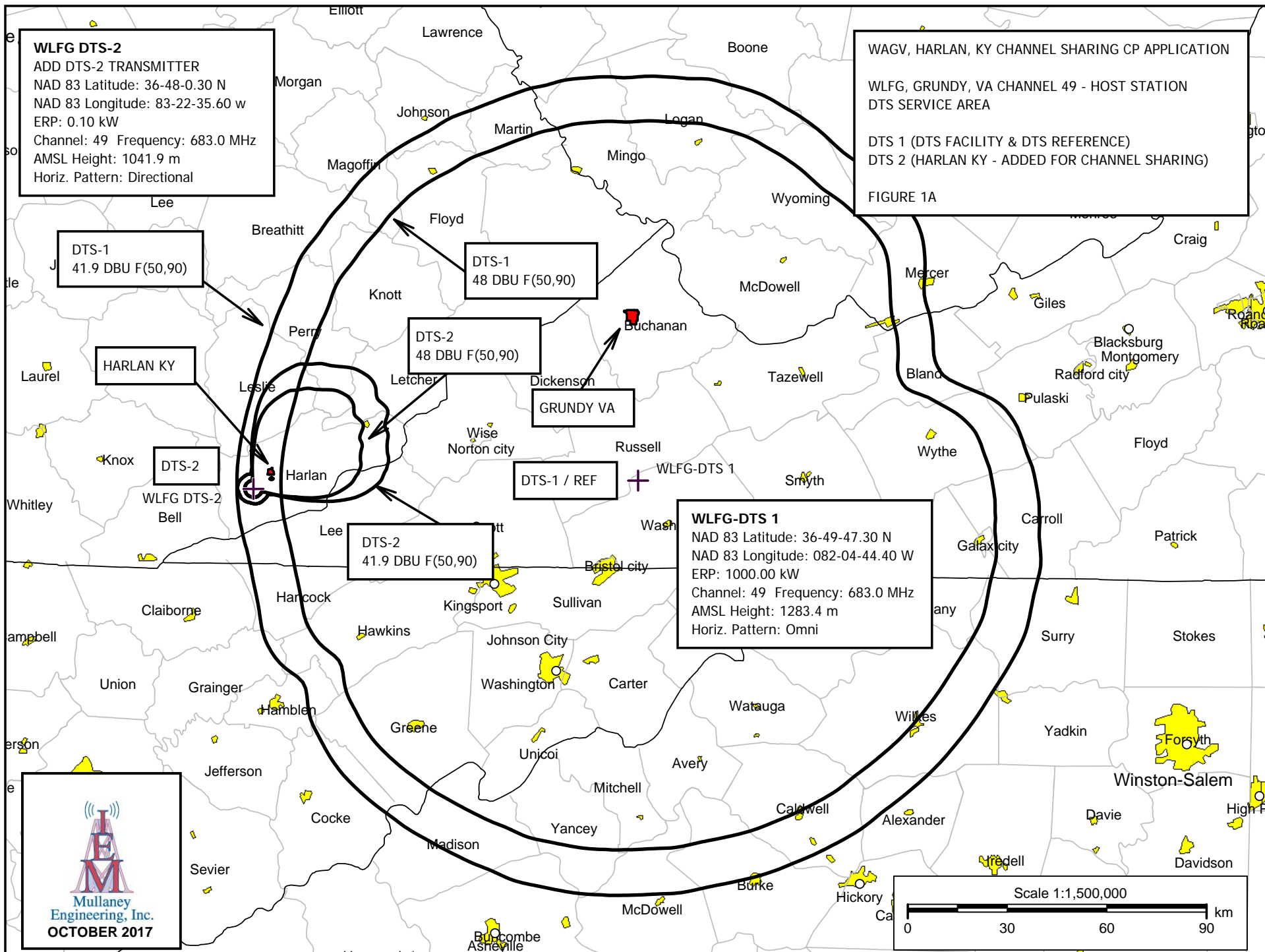
Figure 1C

Figure 1C, is a graph of the terrain profile (using 3-second NGDC data) that shows the unobstructed signal path (line-of-sight) from the DTS-2 facility to WAGV's city of license as required by the Commission's rules.

November 20, 2017

A handwritten signature in blue ink, reading "Timothy Z. Sawyer". The signature is fluid and cursive, with the first name "Timothy" and last name "Sawyer" clearly legible.

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WLFG DTS-2

ADD DTS-2 TRANSMITTER

NAD 83 Latitude: 36-48-0.30 N

NAD 83 Longitude: 83-22-35.60 W

ERP: 0.10 kW

Channel: 49 Frequency: 683.0 MHz

AMSL Height: 1041.9 m

Horiz. Pattern: Directional

WAGV, HARLAN, KY CHANNEL SHARING CP APPLICATION

WLFG, GRUNDY, VA CHANNEL 49 - HOST STATION
DTS SERVICE AREA

DTS 1 (DTS FACILITY & DTS REFERENCE)

DTS 2 (HARLAN KY - ADDED FOR CHANNEL SHARING)

FIGURE 1B

DTS-2
48 DBU F(50,90)

DTS-2
41.9 DBU F(50,90)

DTS-1
48 DBU F(50,90)

DTS-1
41.9 DBU F(50,90)

HARLAN KY

DTS-2

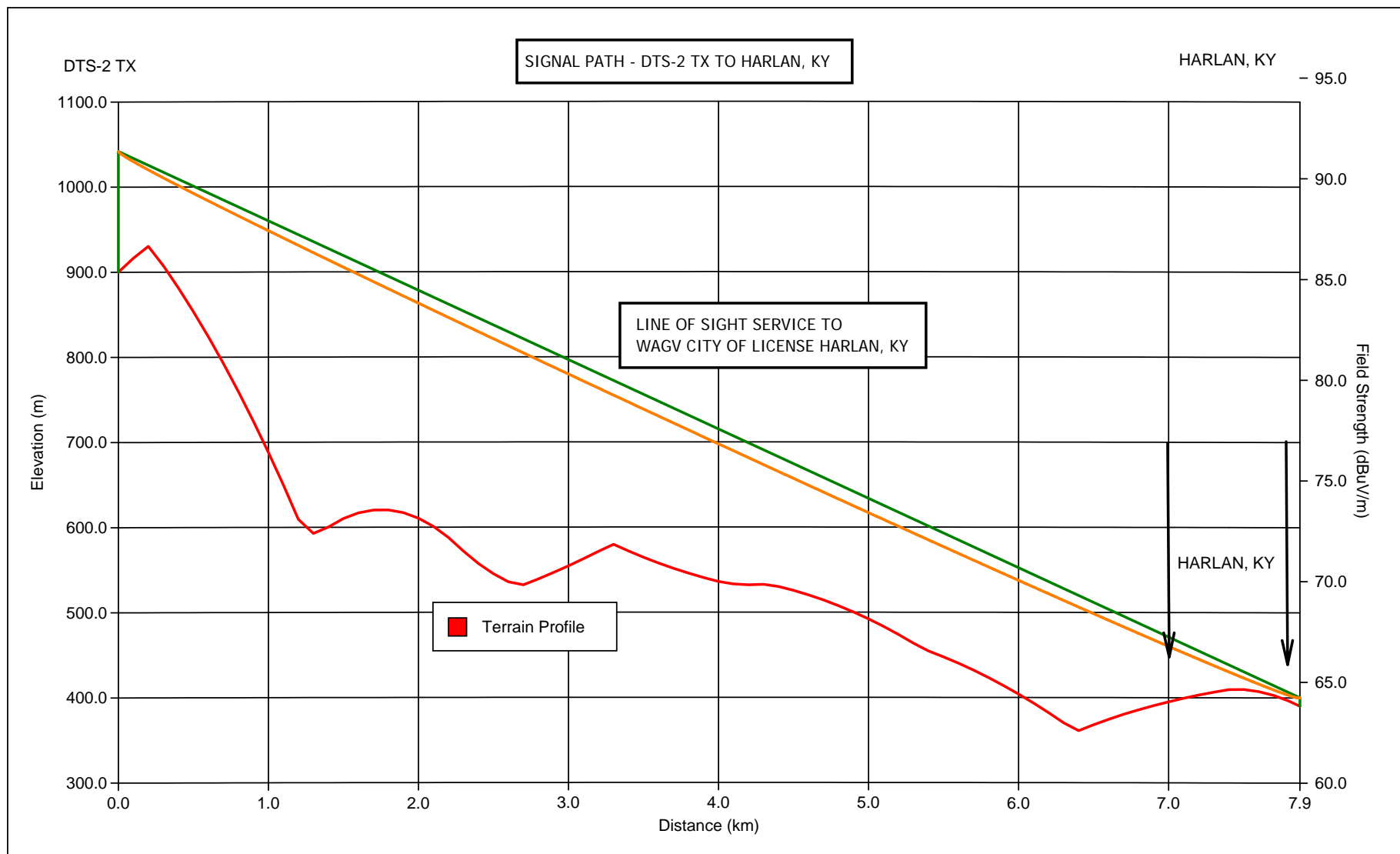
WLFG DTS-2

Scale 1:500,000

0 10 20 30 km



FIGURE 1C



Start Latitude: 36-48-03.0 N
Start Longitude: 083-22-35.6 W

End Latitude: 36-50-56.76 N
End Longitude: 083-18-46.55 W

Distance: 7.87 km
Bearing: 46 deg

