

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 IA

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.

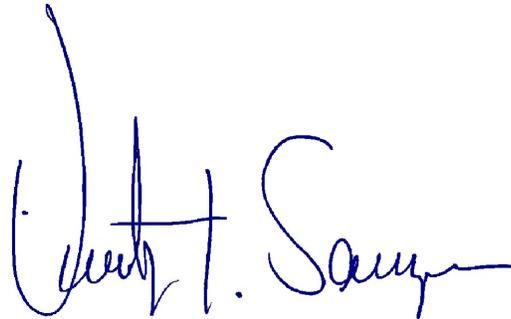
Figure IB

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 IC

Figure IC, 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 written in a cursive style with a large initial "T" and "S".

Timothy Z. Sawyer, Senior Engineer/Consultant
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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 1A

DTS-1
 41.9 DBU F(50,90)

DTS-1
 48 DBU F(50,90)

DTS-2
 48 DBU F(50,90)

HARLAN KY

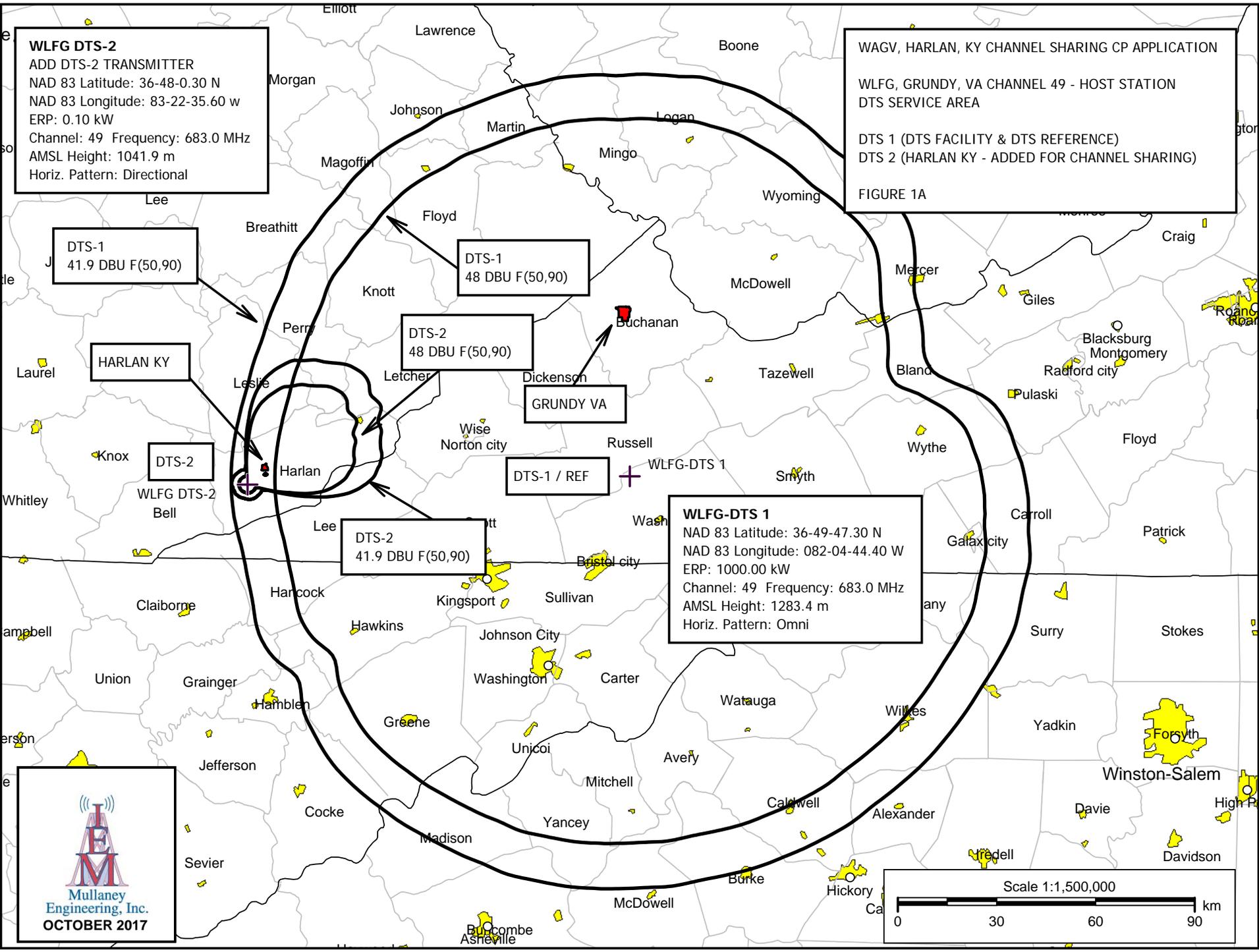
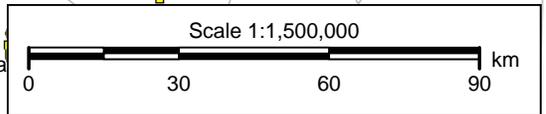
GRUNDY VA

DTS-2

DTS-1 / REF

WLFG-DTS 1
 NAD 83 Latitude: 36-49-47.30 N
 NAD 83 Longitude: 082-04-44.40 W
 ERP: 1000.00 kW
 Channel: 49 Frequency: 683.0 MHz
 AMSL Height: 1283.4 m
 Horiz. Pattern: Omni

DTS-2
 41.9 DBU F(50,90)



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

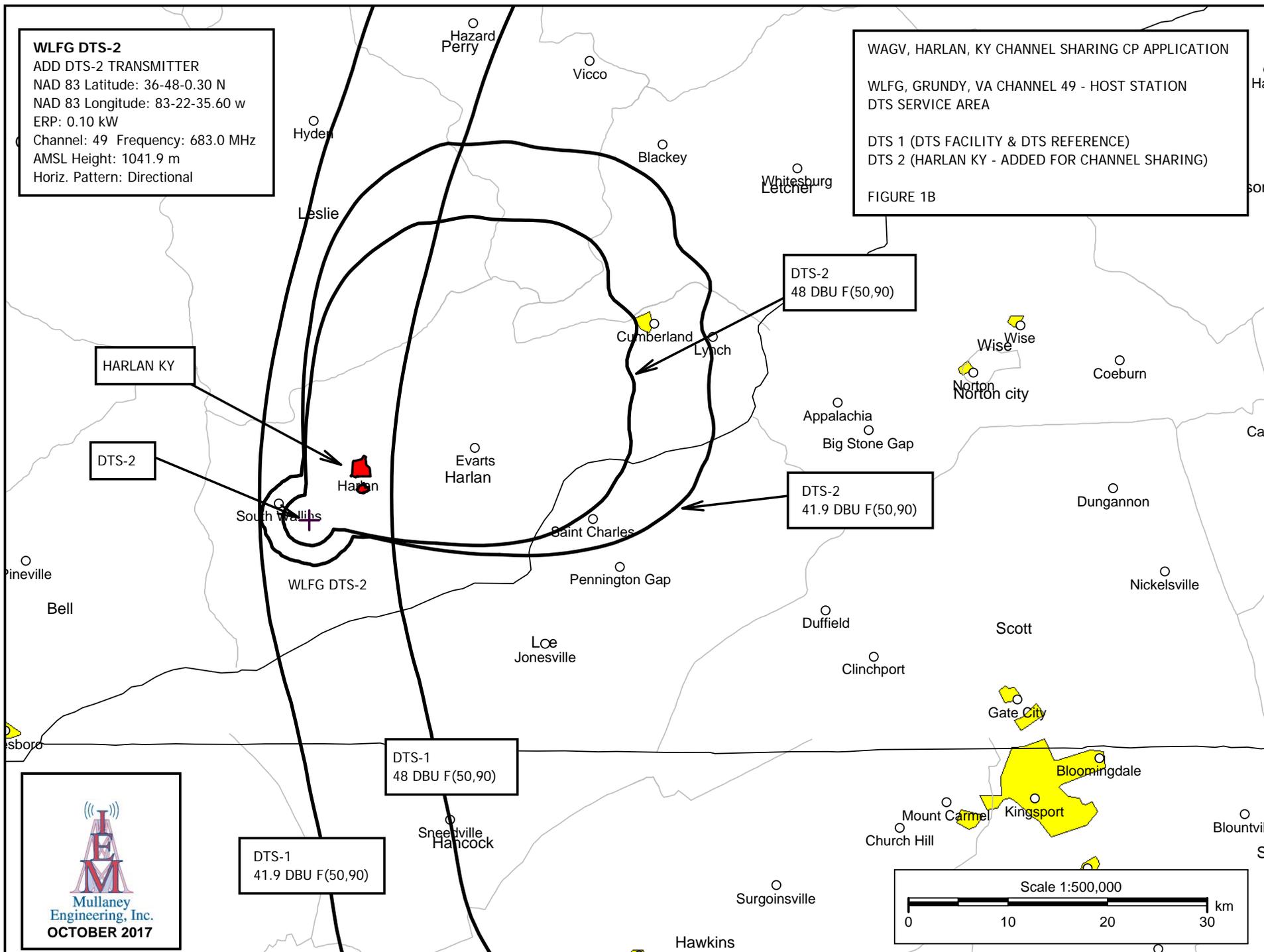
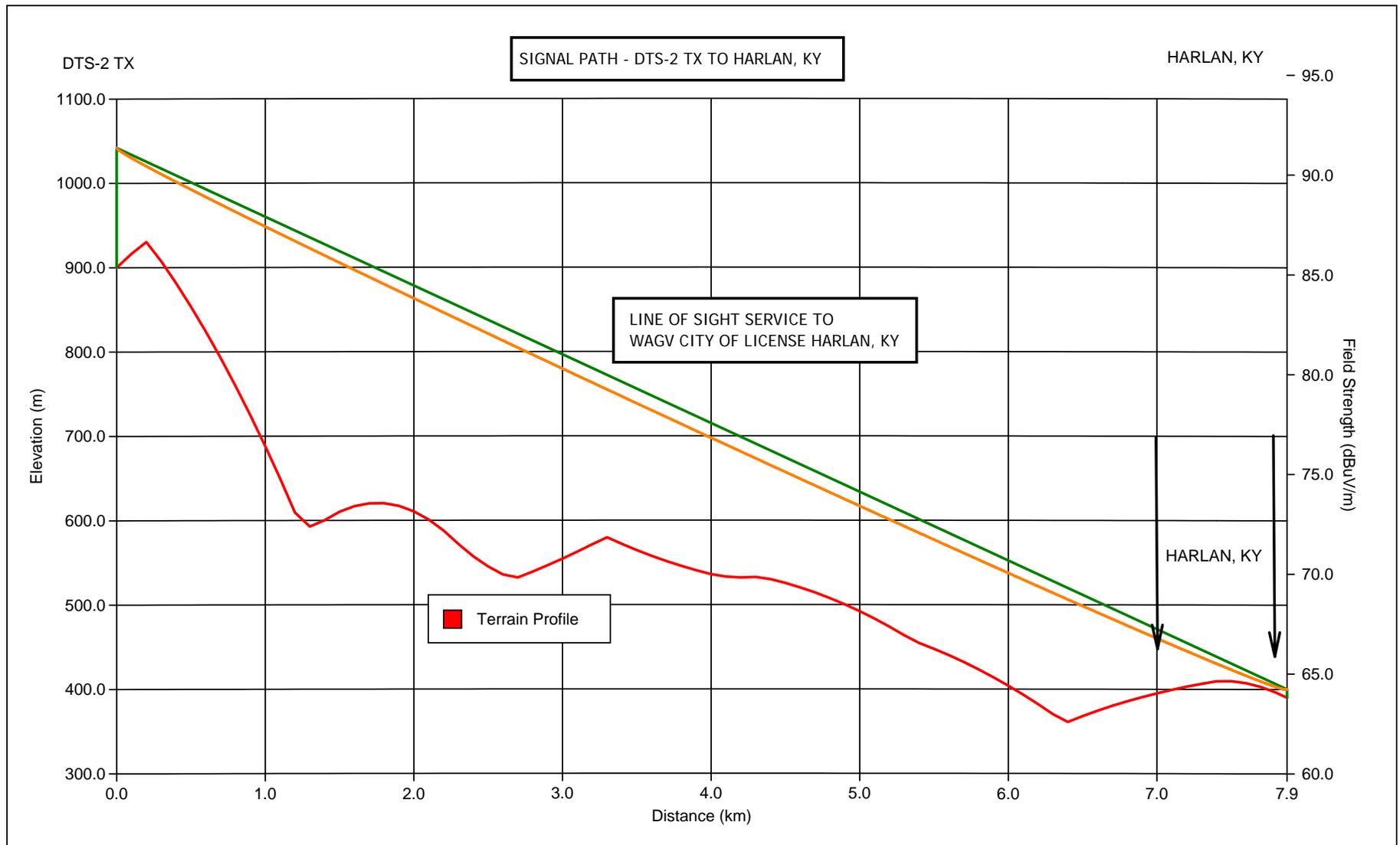


FIGURE 1C



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

