

**Transition to Reassignment Channel**

Television Station: WAVE(DT) Facility ID 13989 Louisville, KY  
Pre-Auction Channel: 47  
Reassignment Channel: 36  
Transition Phase Assignment: Phase 6  
Phase Testing Period Start Date: 09/07/2019  
Phase Completion Date: 10/18/2019

STA purpose: To operate on pre-auction Ch. 47 with an interim antenna prior to transition in order to accommodate tower work, removal of existing shared antenna, and installation of replacement shared broadband antenna for post-auction. Work to commence August 2019.

STA Channel: 47

STA Site Location: WAVE licensed Ch. 47 site

STA Antenna System: Side-mount broadband directional (Figure 1)

STA Power and Height: 400 kW effective radiated power  
221.0 meters height above ground level  
520.6 meters height above mean sea level  
329.6 meters height above average terrain

STA Facility Coverage: Does not extend beyond licensed, provides required principal community coverage (Figure 2)

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.4 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate relative field at downward angles and the associated slant distances. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E. July 26, 2019  
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

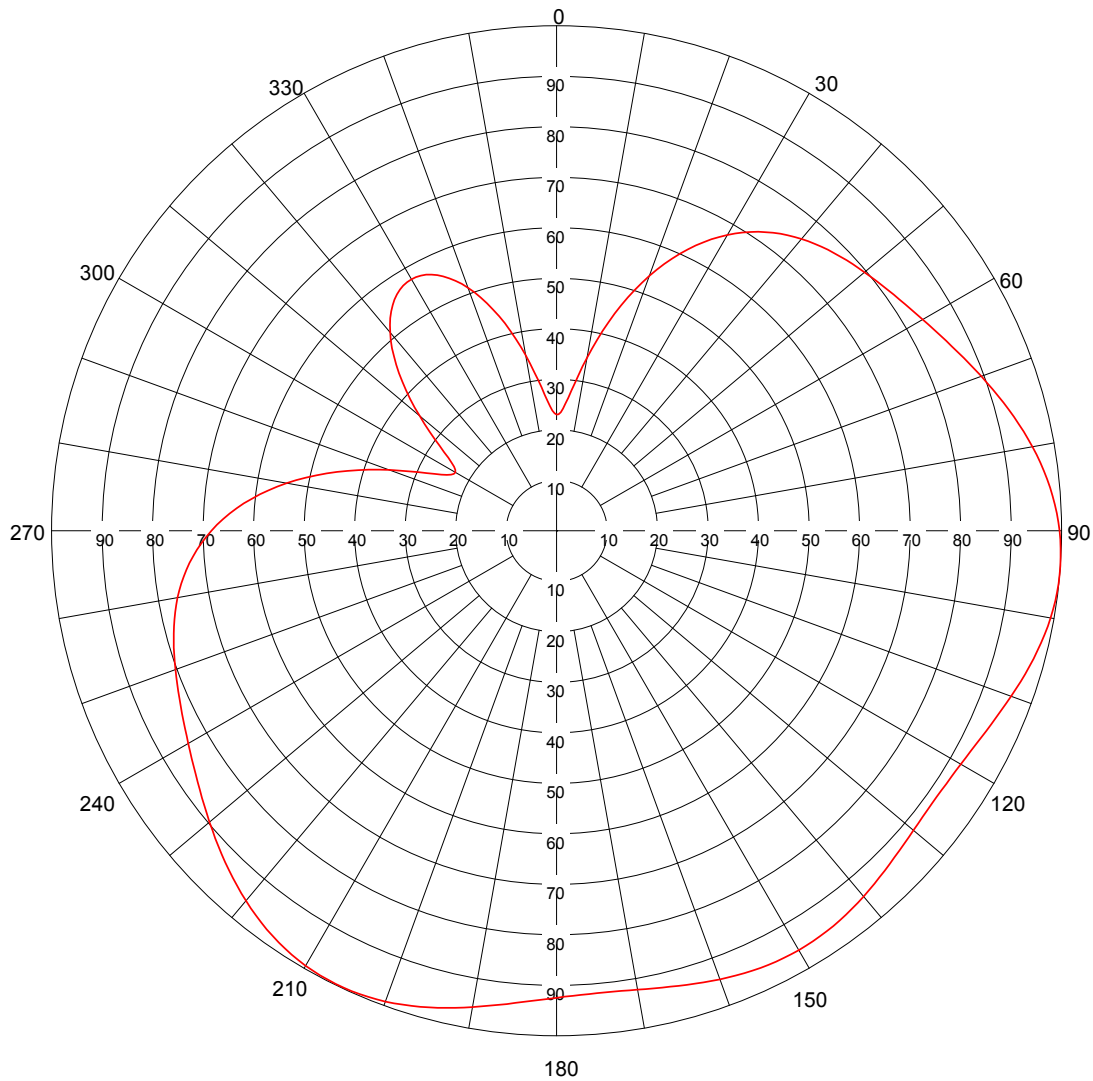
## AZIMUTH PATTERN

Gain  
Calculated / Measured

**1.63 (2.12 dB)**  
**Calculated**

Frequency  
Drawing #

**671 MHz**  
**WB-C160H**



**Figure 1**  
**Interim Antenna Azimuthal Pattern**  
**WAVE(DT) Louisville, KY**  
**Facility ID 13989**  
**Ch. 47 400 kW 330 m**

prepared for  
**Gray Television Licensee, LLC**

July, 2019



**Figure 2**  
**Proposed Interim Contours**  
**WAVE(DT) Louisville, KY**  
**Facility ID 13989**  
**Ch. 47 400 kW 330 m**

prepared for  
**Gray Television Licensee, LLC**

July, 2019

