

Transition to Reassignment Channel

Television Station: WLKY(DT) Facility ID 53939 Louisville, KY
Pre-Auction Channel: 26
Reassignment Channel: 14
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. 26 periodically with an interim antenna prior to transition in order to accommodate transmitter and combiner installation, and then for tower work to include removal of pre-auction shared main antenna and installation of post-auction shared main antenna. Work to commence during July 2019.

STA Site Location: WLKY licensed Ch. 26 site

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

STA Power and Height: 450 kW effective radiated power
330 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 1.9 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 15 percent relative field at downward angles. 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. June 28, 2019
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

AZIMUTH PATTERN

Gain
 Calculated / Measured

1.63 (2.12 dB)
Calculated

Frequency
 Drawing #

545 MHz
WB-C160H

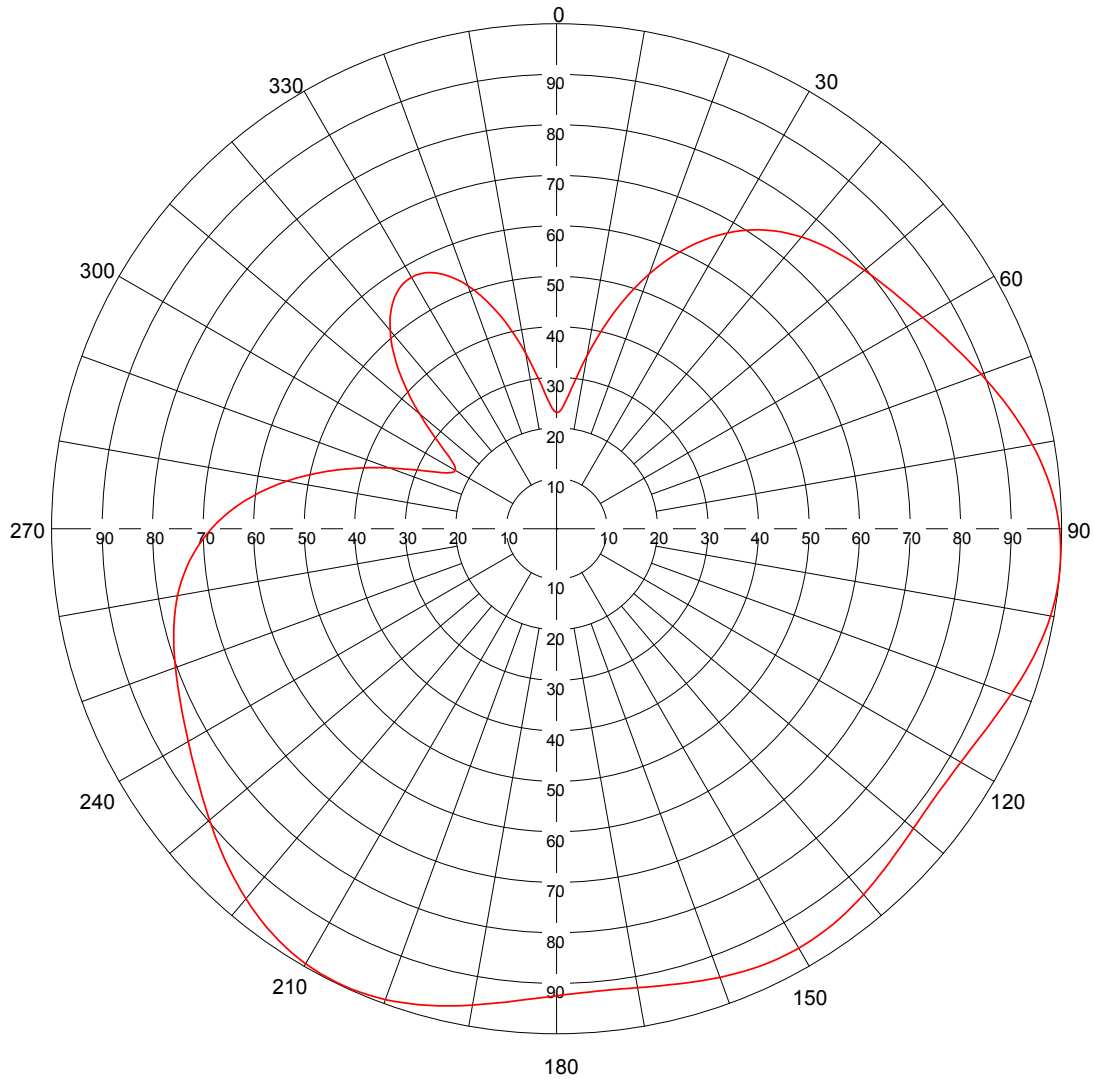
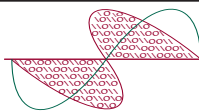


Figure 1
Interim Antenna Azimuthal Pattern
WLKY(DT) Louisville, KY
Facility ID 53939
Ch. 26 450 kW 330 m

prepared for
Hearst Properties Inc.

June, 2019



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 2
Proposed Interim Contours
WLKY(DT) Louisville, KY
Facility ID 53939
Ch. 26 450 kW 330 m

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June, 2019

Proposed Interim Ch. 26
450 kW 330 m directional
48 dBμ
(Principal Community)
41 dBμ
(Noise Limited Service Contour)

Licensed Ch. 26
BLCDT-20030129AFL
600 kW 392 m directional
41 dBμ Contour

