

Transition to Reassignment Channel

Television Station: WLWT(DT) Facility ID 46979 Cincinnati, OH

STA purpose: To operate on pre-auction Ch. 35 with an interim antenna periodically prior to transition in order to accommodate tower work, transmission line refurbishment, and installation of post-auction Ch. 20 antenna. Work to commence summer 2018.

STA Site Location: WLWT licensed Ch. 35 site

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

STA Power and Height: 715 kW effective radiated power
265 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 2.8 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. March 30, 2018
207 Old Dominion Road Yorktown, VA 23692 703-650-9600



Date **30 Mar 2018**
Call Letters
Location
Customer
Antenna Type

Channel

AZIMUTH PATTERN

Gain
Calculated / Measured

1.69 (2.28 dB)
Calculated

Frequency
Drawing #

599 MHz
WB-C160H

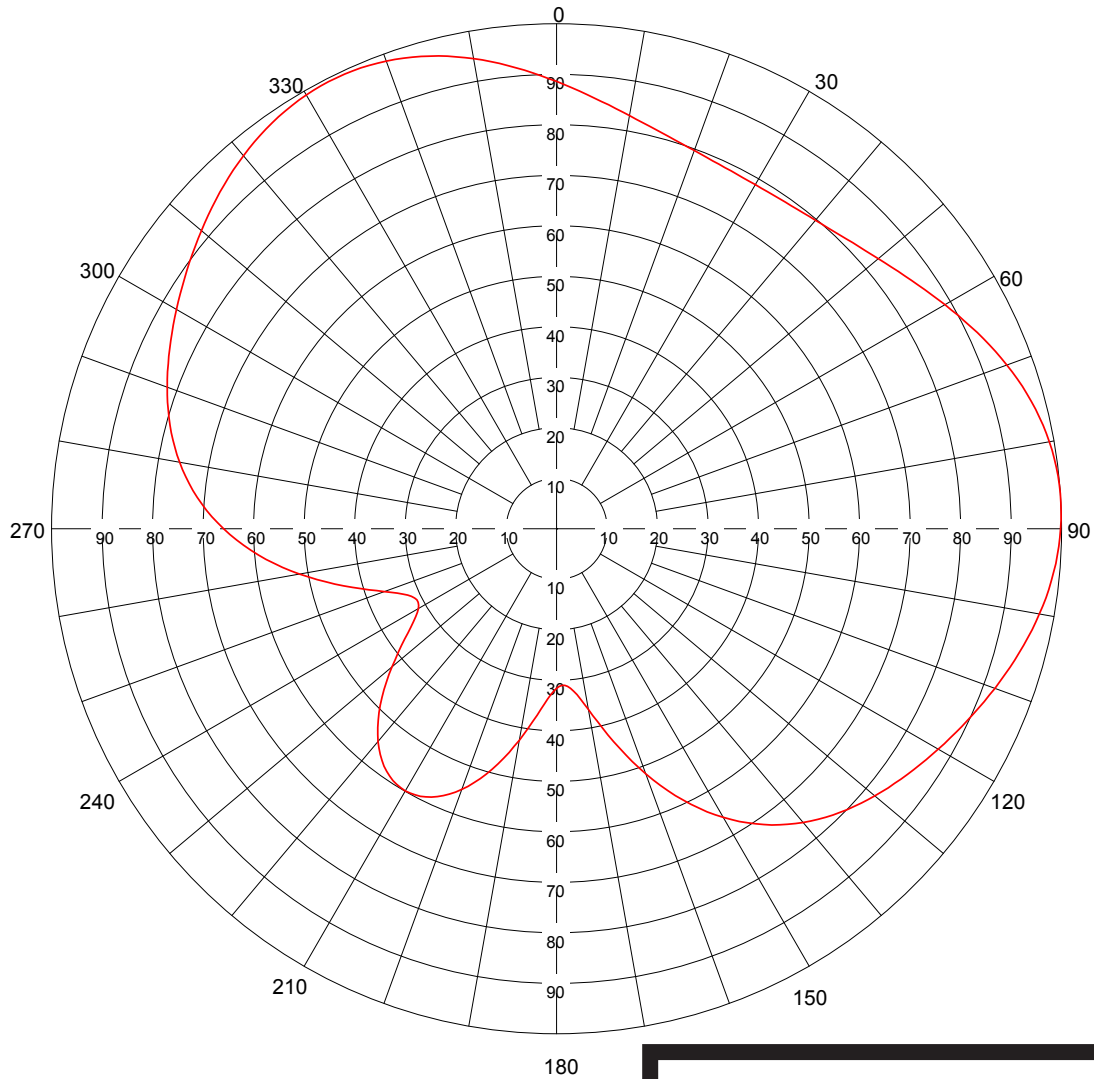
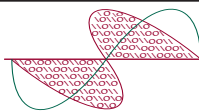


Figure 1
Interim Antenna Azimuthal Pattern
WLWT(DT) Cincinnati, OH
Facility ID 46979
Ch. 35 715 kW 265 m

prepared for
Ohio/Oklahoma
Hearst Television Inc.

March, 2018



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

Figure 2
Proposed Interim Contour
WLWT(DT) Cincinnati, OH
Facility ID 46979
Ch. 35 715 kW 265 m

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