

Transition to Reassignment Channel

Television Station: WXII-TV Facility ID 53921 Winston-Salem, NC
Pre-Auction Channel: 31
Reassignment Channel: 16
Transition Phase Assignment: Phase 5
Phase Testing Period Start Date: 08/03/2019
Phase Completion Date: 09/06/2019
Channel share guest: WCWG(DT) Fac ID 35385 Lexington, NC

STA purpose: To operate on pre-auction Ch. 31 with an interim antenna leading up to transition in order to accommodate final phase of tower work, removal of pre-auction Ch. 31 antenna, and installation of post-auction Ch. 16 antenna. Work to commence August 2019.

STA Site Location: WXII-TV licensed Ch. 31 site

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

STA Power and Height: 950 kW effective radiated power
546 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 3.0 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 8 percent relative field at downward angles (from antenna elevation pattern data). 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 1, 2019
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AZIMUTH PATTERN

Gain
 Calculated / Measured

1.67 (2.23 dB)
Calculated

Frequency
 Drawing #

575 MHz
WB-C160H

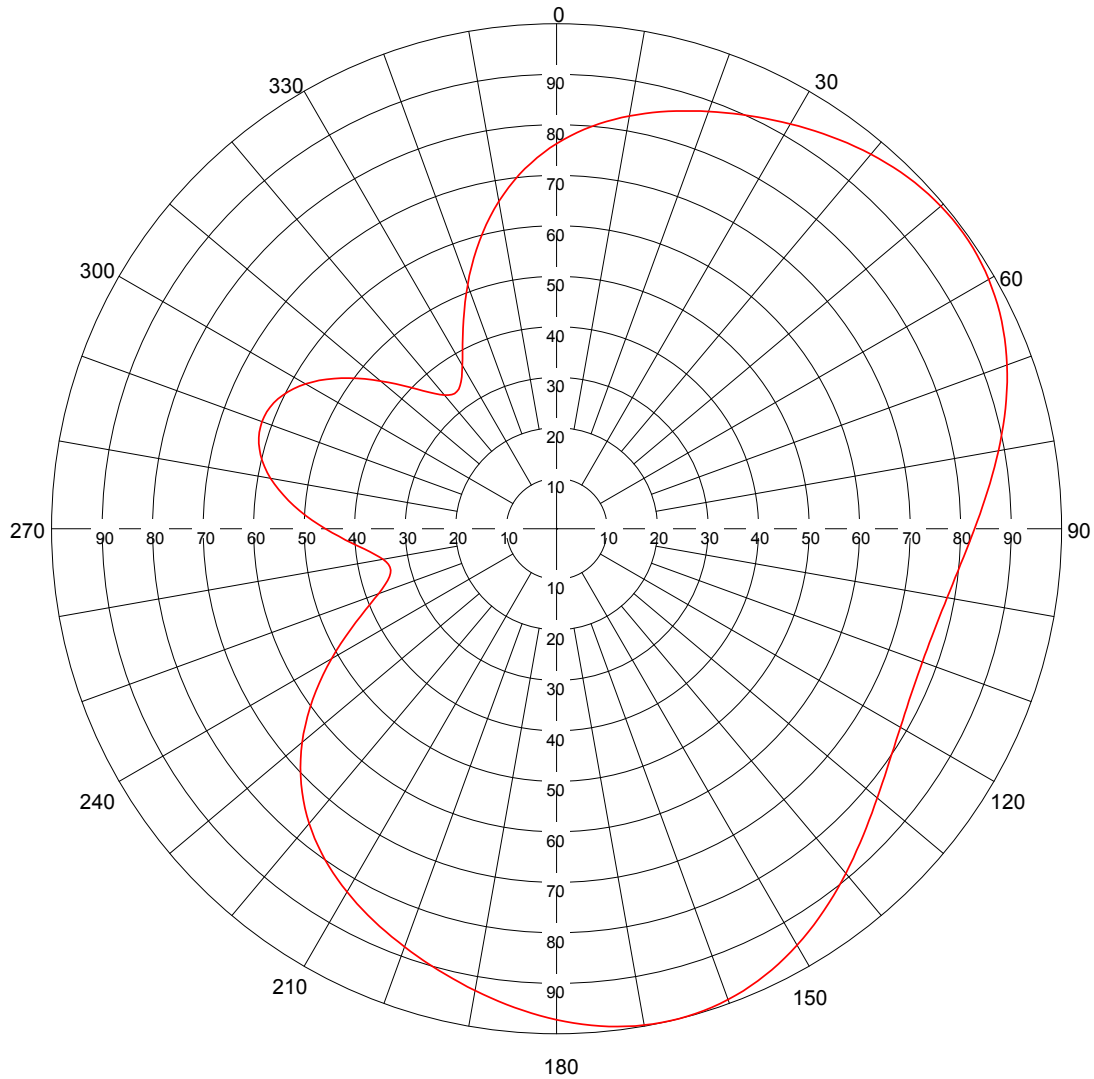
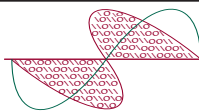


Figure 1
Interim Antenna Azimuthal Pattern
WXII-TV Winston-Salem, NC
Facility ID 53921
Ch. 31 950 kW 546 m

prepared for
Hearst Properties Inc.

July, 2019



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

Licensed Ch. 31
File# 0000029093
815 kW 572 m nondirectional
41 dBu Contour

Proposed Interim Ch. 31
950 kW 546 m directional
48 dBu
(Principal Community)
41 dBu
(Noise Limited Service Contour)

Figure 2
Proposed Interim Contour
WXII-TV Winston-Salem, NC
Facility ID 53921
Ch. 31 950 kW 546 m

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