

**Transition to Reassignment Channel**

Television Station: WSAZ-TV Facility ID 36912 Huntington, WV  
Pre-Auction Channel: 23  
Reassignment Channel: 22  
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. 23 with an interim antenna prior to transition in order to accommodate tower work, main transmission line replacement, removal of existing Ch. 23 main antenna, and installation of broadband antenna for post-auction. Work to commence August 2019.

STA Channel: 23

STA Site Location: WSAZ-TV licensed Ch. 23 site

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

STA Power and Height: 576 kW effective radiated power  
250.2 meters height above ground level  
558.4 meters height above mean sea level  
332.0 meters height above average terrain

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

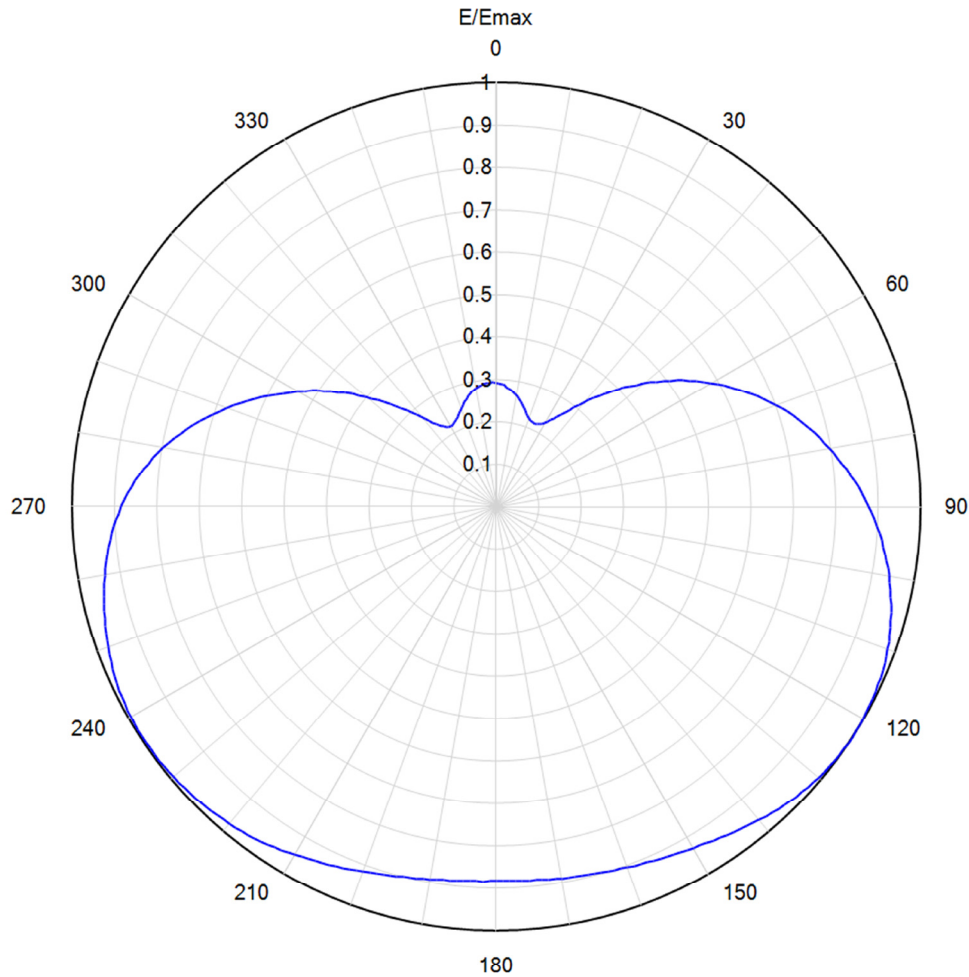
RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.6 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 20 percent 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. July 26, 2019  
207 Old Dominion Road Yorktown, VA 23692 703-650-9600



## Azimuth Pattern



Model: SBB-24C170  
Location:  
Customer:  
Date: July 24, 2019  
Rotation Angle: 180 degrees

Note: Pattern Tolerance +/-5% of Emax

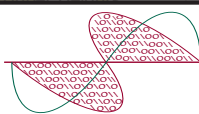
Polarization: Horizontal  
Frequency: 527.00 MHz  
Directivity: 1.7 (2.40 dB)  
Elevation Angle: 1.00 degrees  
Horizontal Unit Pattern:  
File = SBB-C170-533.pat



**Figure 1**  
**Interim Antenna Azimuthal Pattern**  
**WSAZ-TV Huntington, WV**  
**Facility ID 36912**  
**Ch. 23 576 kW 332 m**

prepared for  
**Gray Television Licensee, LLC**

July, 2019



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

**Figure 2**  
**Proposed Interim Contour**  
**WSAZ-TV Huntington, WV**  
**Facility ID 36912**  
**Ch. 23 576 kW 332 m**

prepared for  
**Gray Television Licensee, LLC**

July, 2019

Proposed Interim Ch. 23  
576 kW 332 m directional  
48 dBu  
(Principal Community)  
41 dBu  
(Noise Limited Service Contour)

Licensed Ch. 23  
LMS File# 000000139  
595 kW 390 m nondirectional  
41 dBu Contour

Huntington, WV

