

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.

AZIMUTH PATTERN

Gain
Calculated / Measured

1.63 (2.12 dB)
Calculated

Frequency
Drawing #

671 MHz
WB-C160H

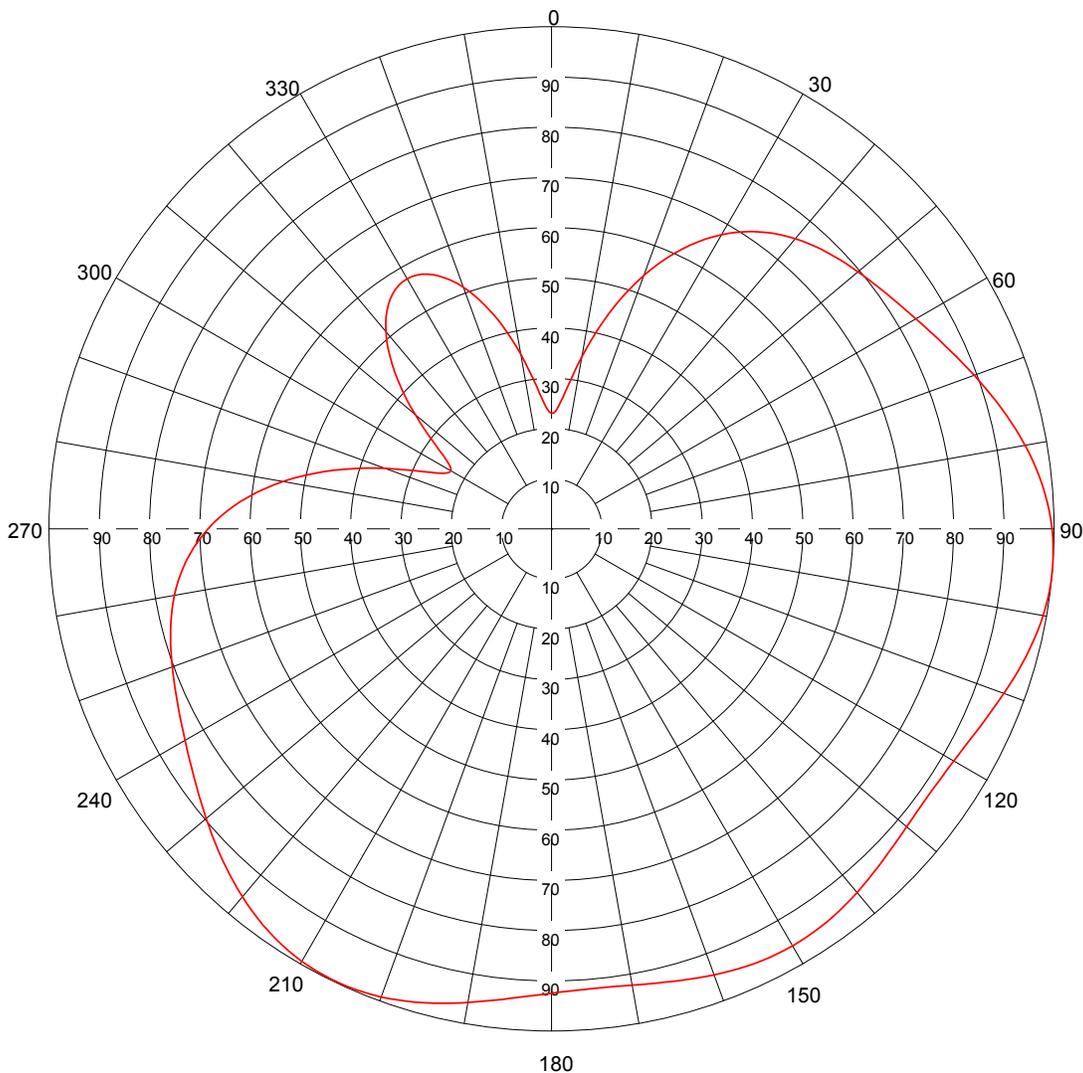
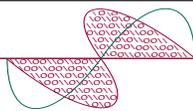


Figure 1
Interim Antenna Azimuthal Pattern
WAVE(DT) Louisville, KY
Facility ID 13989
Ch. 47 400 kW 330 m

prepared for
Gray Television Licensee, LLC

July, 2019

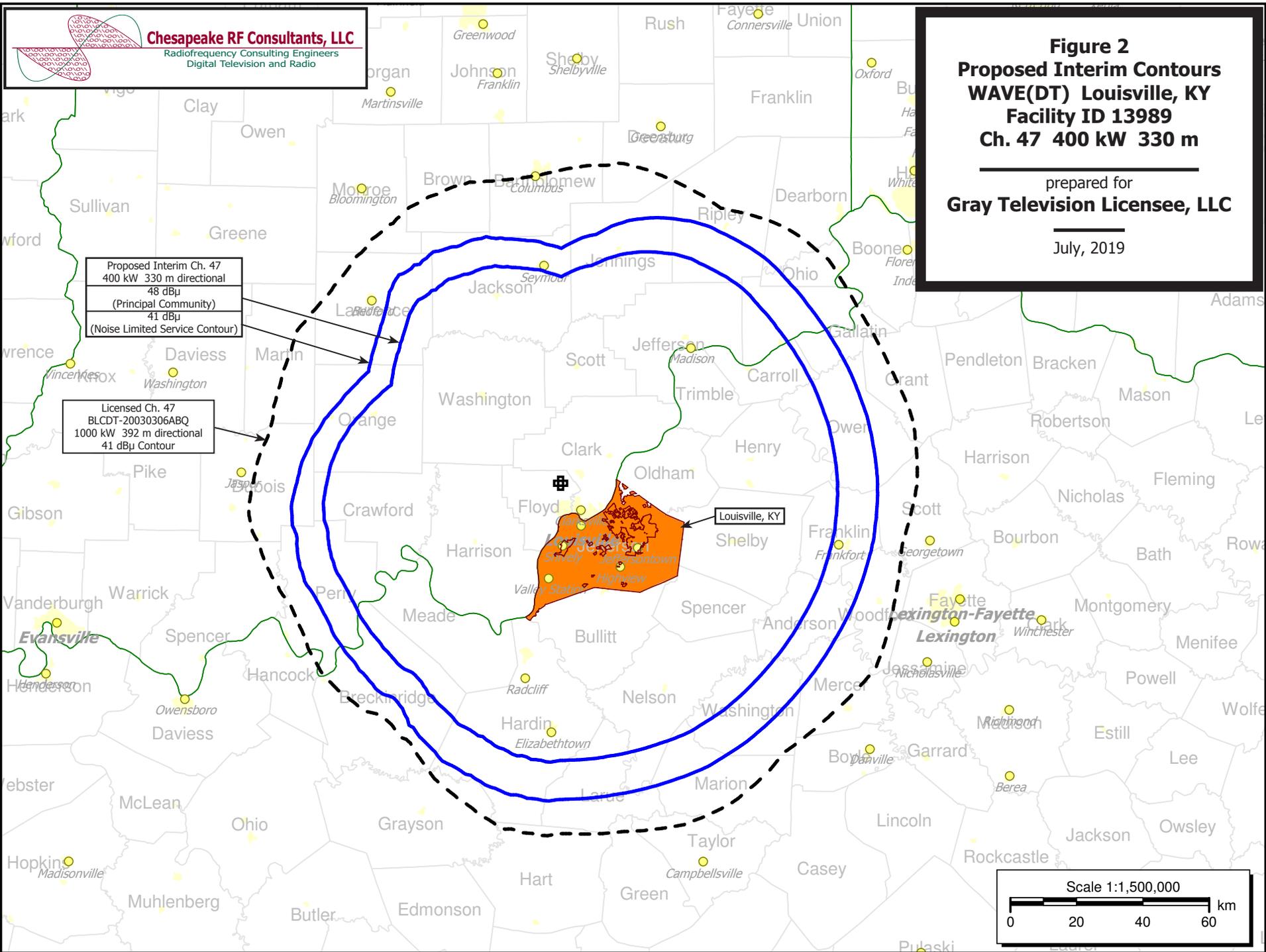


Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

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

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Proposed Interim Ch. 47
400 kW 330 m directional
48 dB μ
(Principal Community)
41 dB μ
(Noise Limited Service Contour)

Licensed Ch. 47
BLCDT-20030306ABQ
1000 kW 392 m directional
41 dB μ Contour

Louisville, KY

