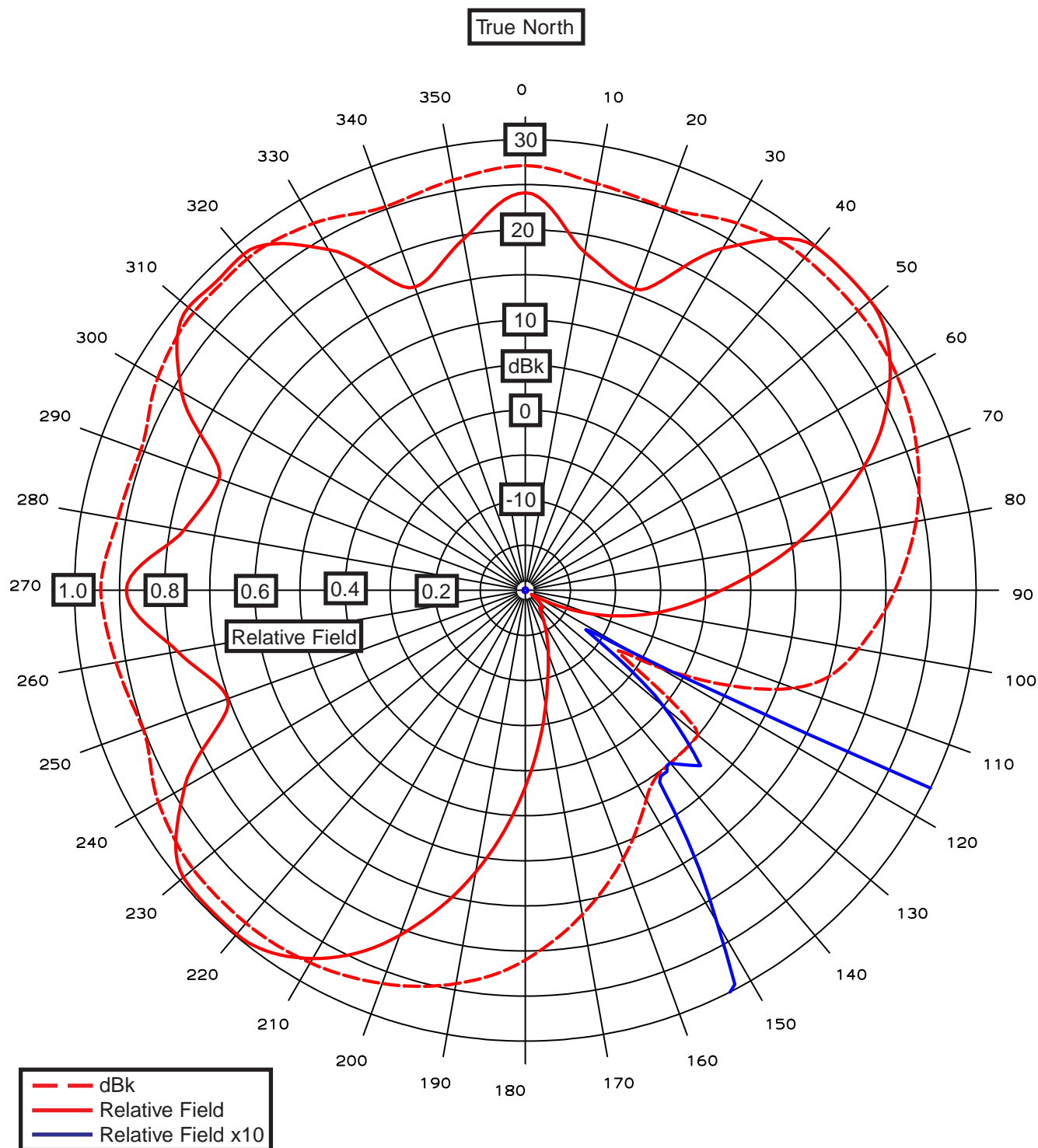


Exhibit 40 - Statement A  
**PROPOSED ANTENNA SYSTEM**  
prepared for  
**WCIV, LLC**  
WCIV-DT Charleston, South Carolina  
Facility ID 21536  
Ch. 34 630 kW (MAX-DA) 522 m

WCIV, LLC, licensee of analog station WCIV(TV), NTSC Channel 4, has been granted authority to construct the paired WCIV-DT facility on Channel 53 (file number BPCDT-19991026ACK, facility ID 21536). The Commission, in their Report and Order in MM Docket 01-222, DA 02-500, released March 6, 2002 (“*R&O*”), granted a Petition for Rulemaking to substitute Channel 34 for Channel 53 as WCIV(TV)’s DTV allotment, with an effective radiated power (“ERP”) of 340 kilowatts and a height above average terrain (“HAAT”) of 597 meters. The purpose of the instant minor change application is to specify operation of WCIV-DT on Channel 34 (as required by the *R&O*), with a maximum ERP of 630 kilowatts and a HAAT of 522 meters. A new directional antenna pattern is also proposed herein. The proposed antenna will be used as a common antenna with WCSC-DT, Channel 52, Charleston.

The proposed WCIV-DT antenna system will be side-mounted on the existing WCIV(TV) tower structure, having FCC Antenna Structure Registration number 1051231. This site is the reference site for this station as established in the *R&O*.

The proposed transmitting antenna, a *Dielectric* model TUP-C3-10-1, is directional in the horizontal plane. This antenna will employ 0.75 degrees of electrical beam tilt. The maximum ERP will be 630 kilowatts, horizontally polarized. The antenna system will be installed in accordance with the manufacturer’s instructions. Said installation will be supervised on-site by a competent technical representative of the applicant. The antenna’s horizontal plane pattern, expressed in terms of relative field and power, is supplied as **Exhibit 40 - Figure 1**, properly oriented relative to True North. **Exhibit 40 - Figure 2** and **Exhibit 40 - Figure 2A** present the theoretical vertical plane (elevation) pattern for the antenna system.



# **EXHIBIT 40 - FIGURE 1** **ANTENNA HORIZONTAL PLANE RADIATION PATTERN**

prepared April 2002 for

**WCIV, LLC**

WCIV-DT Charleston, South Carolina

Facility ID 21536

Ch. 34 630 kW (MAX-DA) 522 m

**Cavell, Mertz & Davis, Inc.**

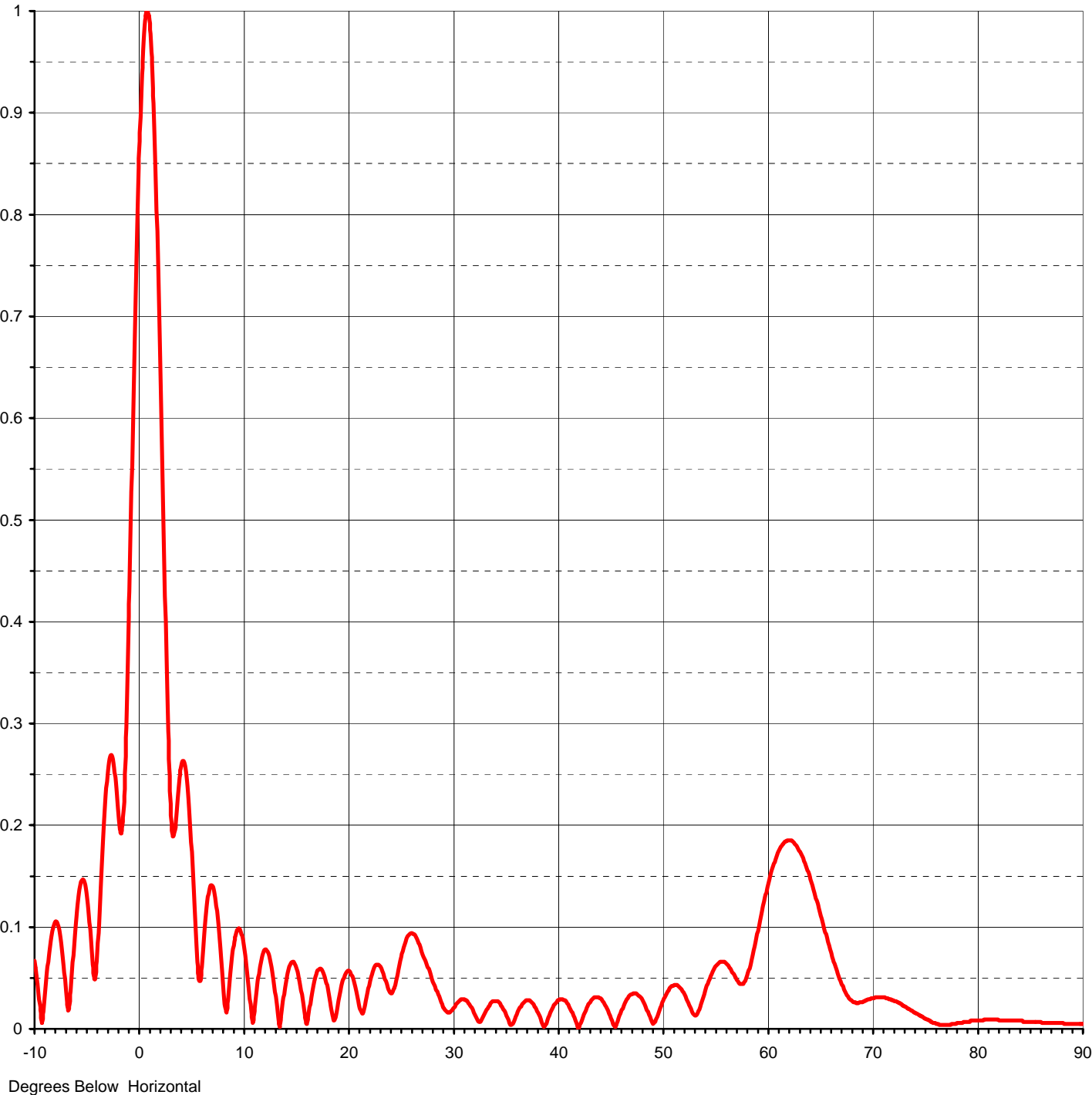
Manassas, Virginia

EXHIBIT 40 - FIGURE 2  
VERTICAL PLANE RADIATION PATTERN

prepared April 2002 for  
**WCIV, LLC**  
WCIV-DT Charleston, South Carolina  
Facility ID 21536  
Ch. 34 630 kW (MAX-DA) 522 m

**Cavell, Mertz & Davis, Inc.**  
Manassas, Virginia

RMS Gain at Main Lobe	<b>21.90 ( 13.40 dB )</b>	Beam Tilt	<b>0.75 deg</b>
RMS Gain at Horizontal	<b>16.30 ( 12.12 dB )</b>	Frequency	<b>593.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>10U219080-90</b>



**EXHIBIT 40 - FIGURE 2A**  
**VERTICAL PLANE RADIATION PATTERN DETAIL**

prepared April 2002 for  
**WCIV, LLC**  
WCIV-DT Charleston, South Carolina  
Facility ID 21536  
Ch. 34 630 kW (MAX-DA) 522 m

**Cavell, Mertz & Davis, Inc.**  
Manassas, Virginia

RMS Gain at Main Lobe **21.90 (13.40 dB)**  
RMS Gain at Horizontal **16.30 (12.12 dB)**  
Calculated / Measured **Calculated**

Beam Tilt **0.75 deg**  
Frequency **593.00 MHz**  
Drawing # **10U219080**

