

Exhibit 40 - Statement A  
**PROPOSED ANTENNA SYSTEM**  
prepared for  
**USA Station Group Partnership of Ohio**  
WQHS-DT Cleveland, Ohio  
Facility ID 60556  
Ch. 34 525 kW 334 m

*USA Station Group Partnership of Ohio*, licensee of analog station WQHS-TV (Channel 61), Cleveland, Ohio, has an application pending to construct the paired WQHS-DT facility on Channel 34 (file number BPCDT-19991029ADJ, facility ID 60556). The purpose of the instant amendment is to reduce the proposed facility's ERP, to reduce the antenna HAAT, and to specify a different directional antenna pattern. No other changes to the pending application are sought.

Specifically, the purpose of the instant amendment supplies a reduction in the proposed ERP from 1000 kW to 525 kW. The proposed antenna's height above mean sea level (HAMSL) and HAAT are also reduced slightly (from 614.9 meters HAMSL and 359.8 meters HAAT to 588.9 meters HAMSL and 333.8 meters HAAT). The instant amendment also specifies a different directional antenna pattern.

The proposed WQHS-DT antenna system will be side-mounted on the existing WQHS-TV tower structure, having FCC Antenna Structure Registration number 1012992. This site is the reference site for this station as established under §73.622(f)(1).<sup>1</sup>

The proposed transmitting antenna, an *Andrew* model ATW24HS3-ESOC-34S, is directional in the horizontal plane. This antenna will employ 0.75 degrees of electrical beam tilt.

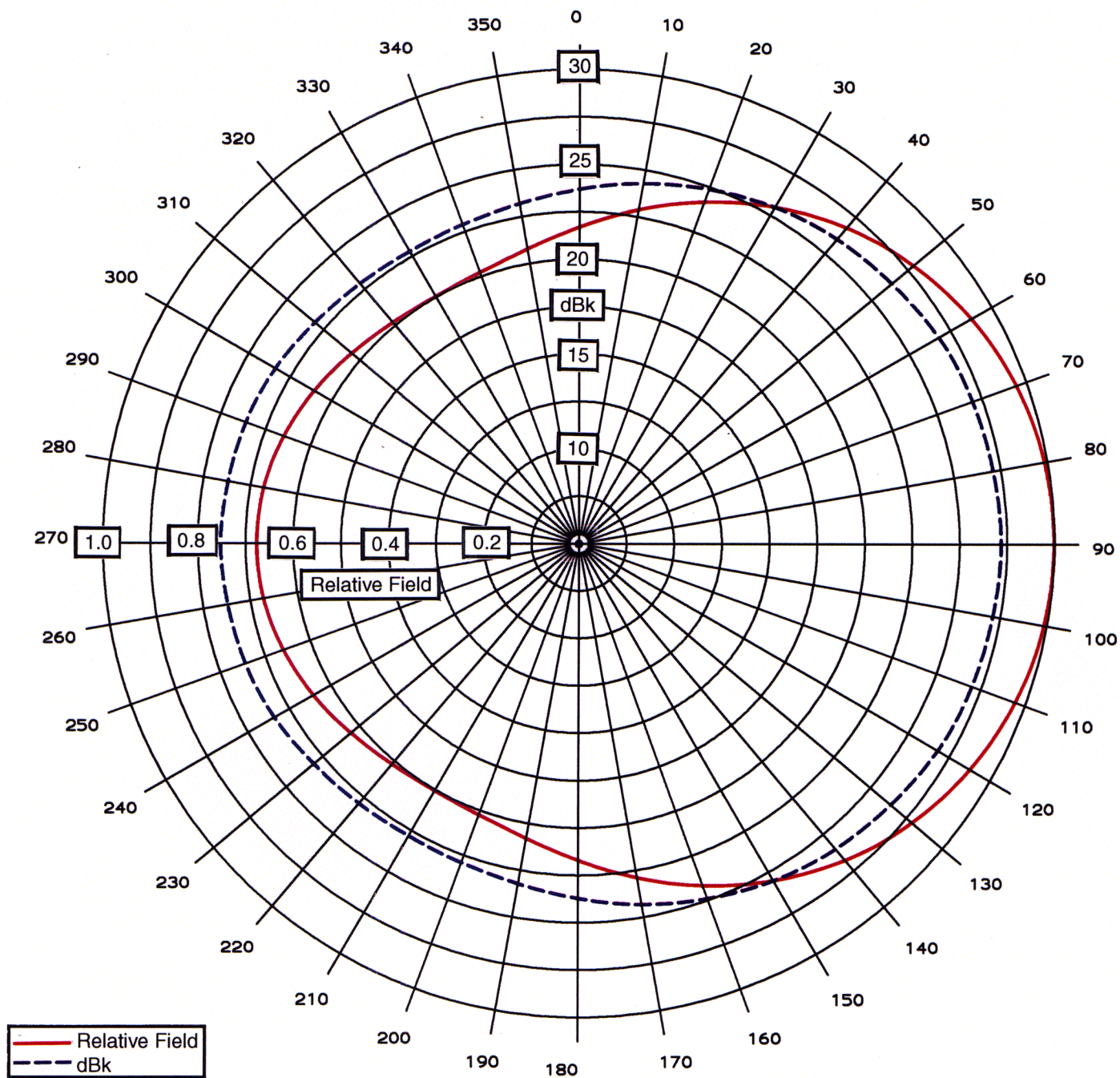
Elliptical polarization is proposed. The horizontally polarized ERP reaches a maximum of 525kW. A maximum of 131.25 kW of vertically polarized ERP is proposed (25 percent of the maximum horizontally polarized ERP). The vertically polarized component will not exceed the horizontally polarized component at any azimuth.

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<sup>1</sup>A difference in site coordinates of four seconds latitude and one second longitude exists with respect to the published reference coordinates due to compliance with the Commission's Antenna Structure Registration program.

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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 (horizontal polarization), 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 **2A** present the theoretical vertical plane (elevation) pattern for the antenna system.

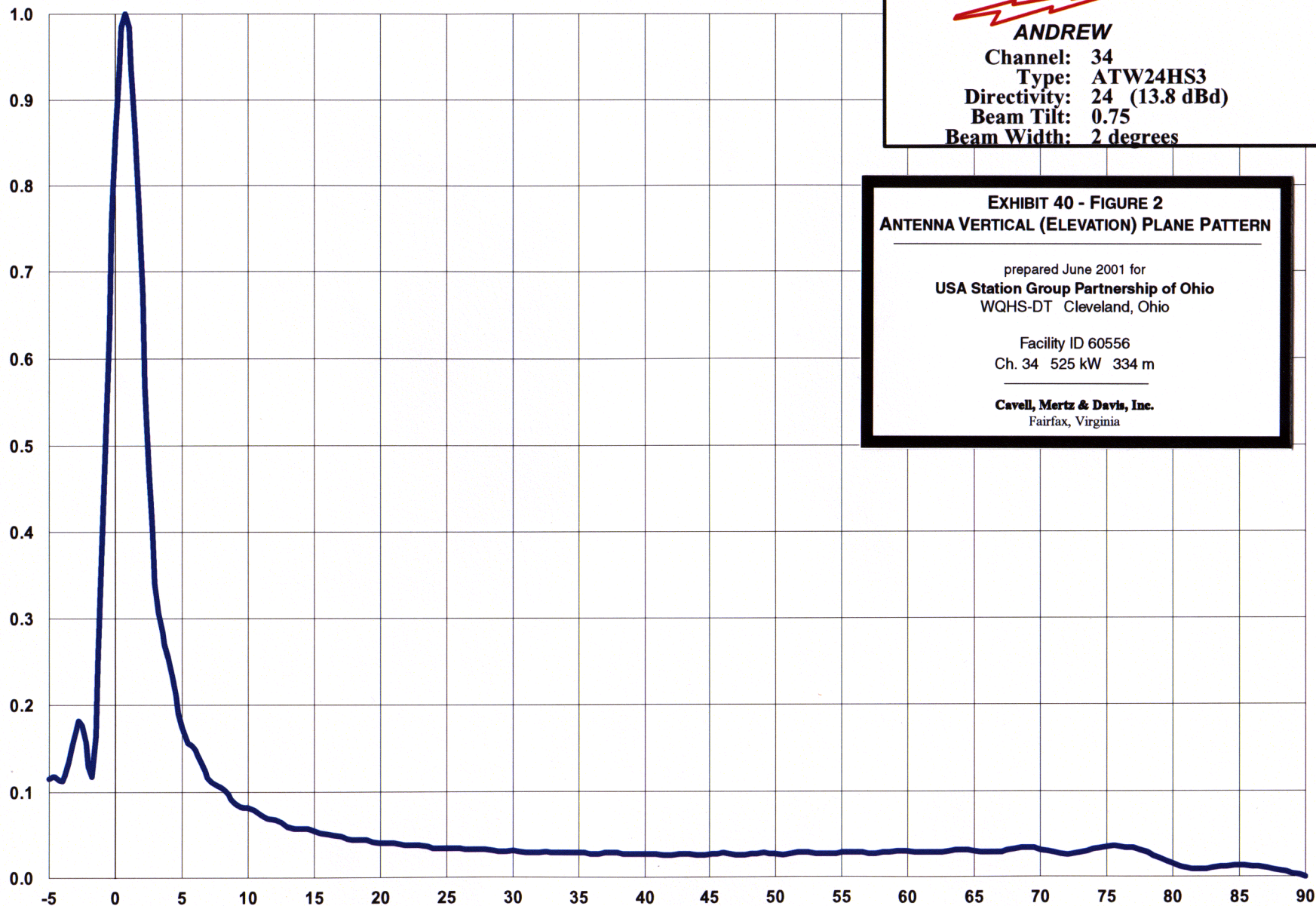


**EXHIBIT 40 - FIGURE 1**  
**ANTENNA HORIZONTAL PLANE RADIATION PATTERN**

prepared June 2001 for  
**USA Station Group Partnership of Ohio**  
 WQHS-DT Cleveland, Ohio

Facility ID 60556  
 Ch. 34 525 kW 334 m

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



**ANDREW**

**Channel: 34**

**Type: ATW24HS3**

**Directivity: 24 (13.8 dBd)**

**Beam Tilt: 0.75**

**Beam Width: 2 degrees**

**EXHIBIT 40 - FIGURE 2**  
**ANTENNA VERTICAL (ELEVATION) PLANE PATTERN**

prepared June 2001 for  
**USA Station Group Partnership of Ohio**  
WQHS-DT Cleveland, Ohio

Facility ID 60556  
Ch. 34 525 kW 334 m

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

**ANDREW CORPORATION**  
10500 W. 153rd Street  
Orland Park, Illinois U.S.A. 60462

**Company: USA Broadcasting**  
**Site: WQHS-DT**  
**Proposal Number:**

**Author: J Davis**

**Date: 06/20/2001**





**ANDREW**

Channel: 34

Type: ATW24HS3

Directivity: 24 (13.8 dBd)

Beam Tilt: 0.75

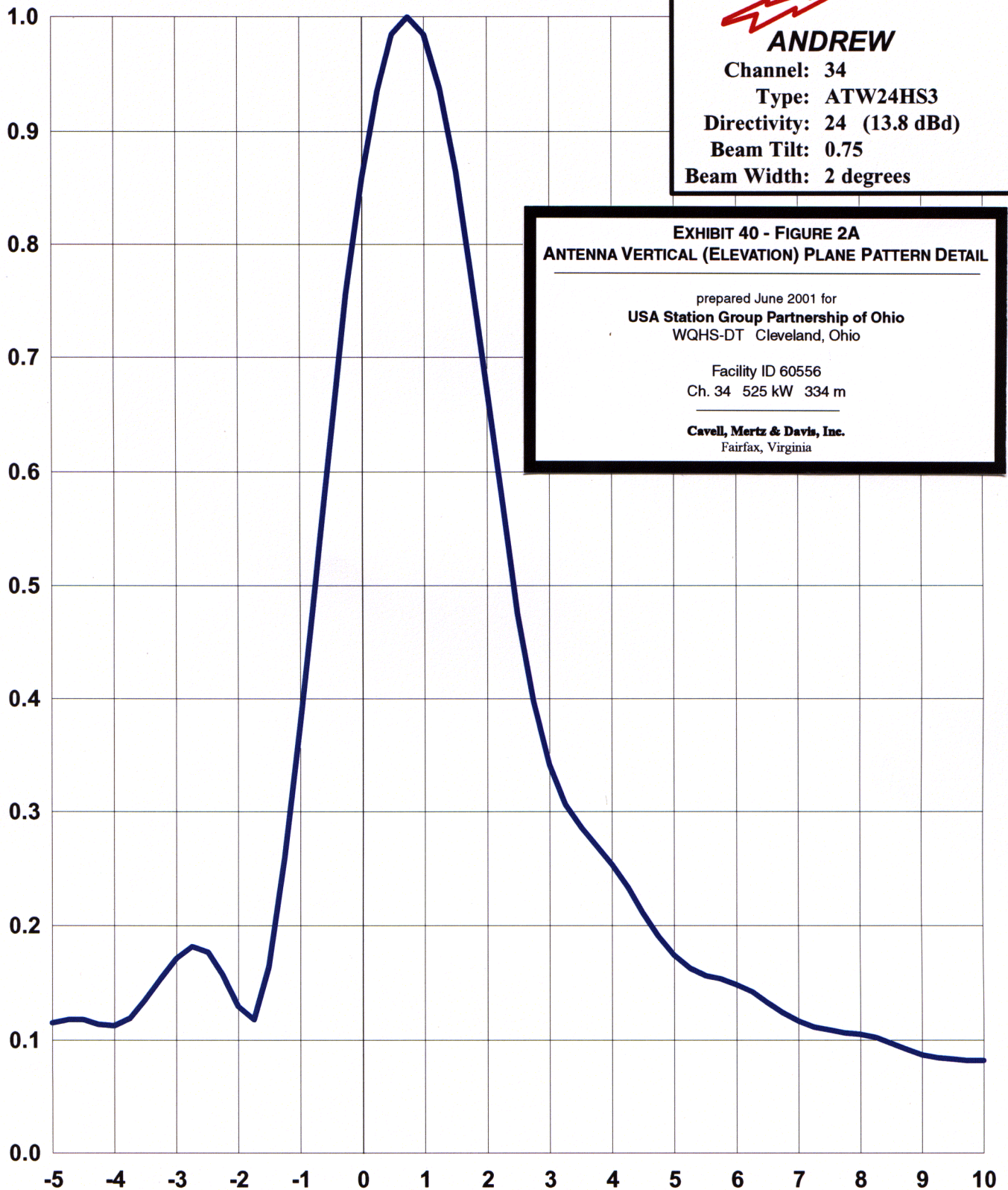
Beam Width: 2 degrees

**EXHIBIT 40 - FIGURE 2A**  
**ANTENNA VERTICAL (ELEVATION) PLANE PATTERN DETAIL**

prepared June 2001 for  
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