

Exhibit 40 - Statement A  
**NATURE OF THE PROPOSAL**  
**PROPOSED ANTENNA SYSTEM**  
prepared for  
**Humanity Interested Media, Inc.**  
KTBU-DT Conroe, Texas  
Facility ID 28324  
Ch. 42 1000 kW 552 m

*Humanity Interested Media, Inc.* is the permittee of KTBU-DT, Channel 42, Conroe Texas (file number BPCDT-19991101ALJ) and licensee of the paired analog KTBU(TV) Channel 55 facility (BLCT-19980721KG). The KTBU-DT Construction Permit (“CP”) authorizes an effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 551 meters. An application is pending at the Commission (BMPCDT-20010910AAF) to modify the CP to specify a different transmitter site for KTBU-DT, increase the antenna HAAT slightly to 553 meters, and to employ a different directional antenna system. The instant application amends the pending application to specify a new transmitter site (1.0 km distant from that proposed in BMPCDT-20010910AAF) and reduce the antenna HAAT by one meter, to 552 meters. No other changes to the pending application are proposed herein.

The proposed KTBU-DT antenna system will be mounted on an existing antenna supporting structure, having FCC Antenna Structure Registration number 1059622. The antenna system will be mounted in a “down-array” position beneath the candelabra at the structure’s top. This antenna supporting structure is currently authorized for various other stations.<sup>1</sup>

The proposed transmitting antenna, an *RFS* model RD32UA4255HDS65, is directional in the horizontal plane. This antenna will employ 1.25 degrees of electrical beam tilt. The ERP will be 1000 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

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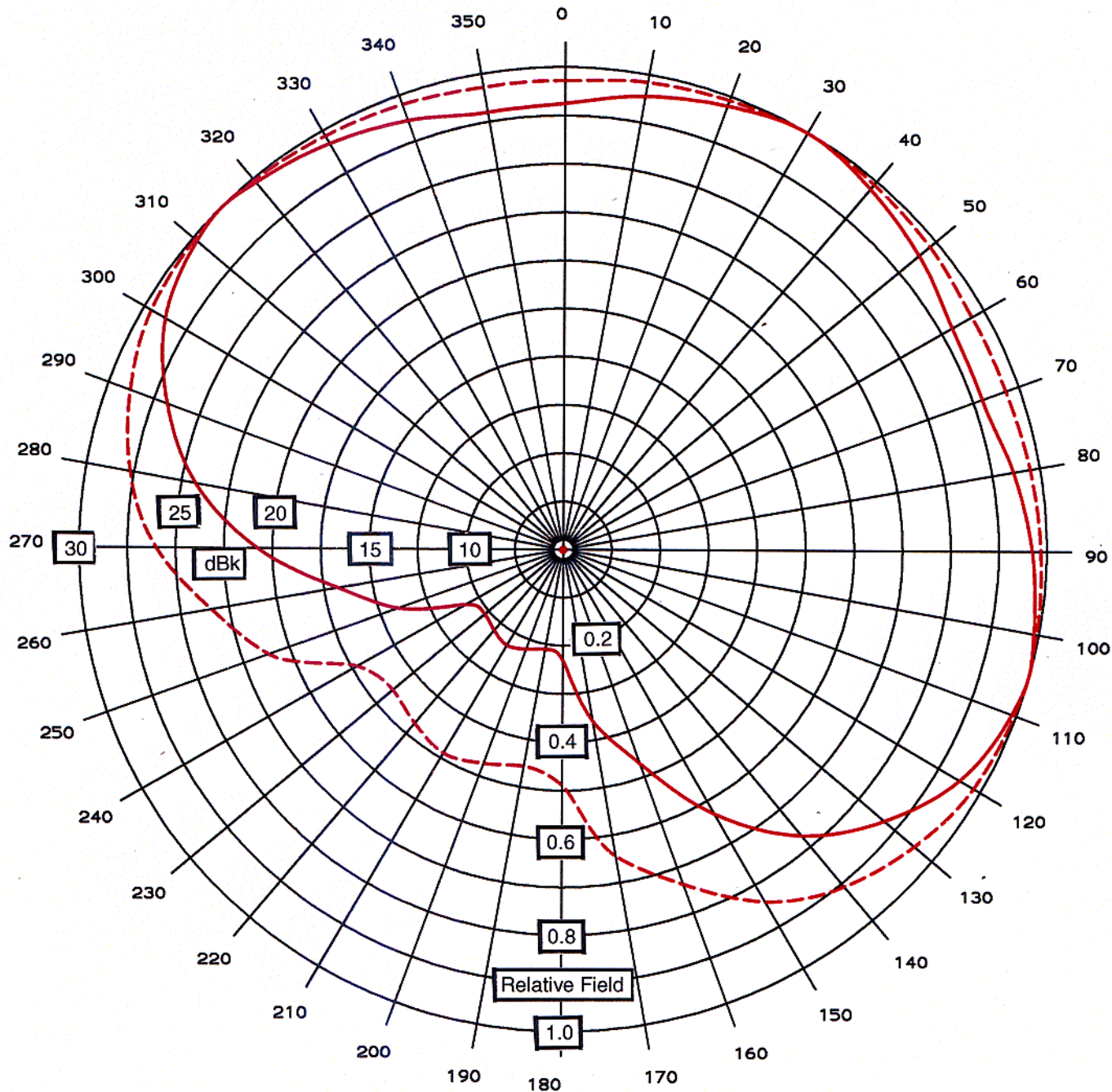
<sup>1</sup>Stations KPXB-DT (Ch. 5, Conroe, TX), KTXH-DT (Ch. 19, Houston, TX), KTXH(TV) (Ch. 20), KETH-DT (Ch. 24, Houston, TX), KXLN-TV (Ch. 45, Rosenberg, TX), and KXLN-DT (Ch. 46) are authorized under various Construction Permits to utilize this site. Additionally, an application is pending for KNWS-DT (Ch. 52, Katy, TX) to employ this site.

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

Relative Field  
dBk

True North



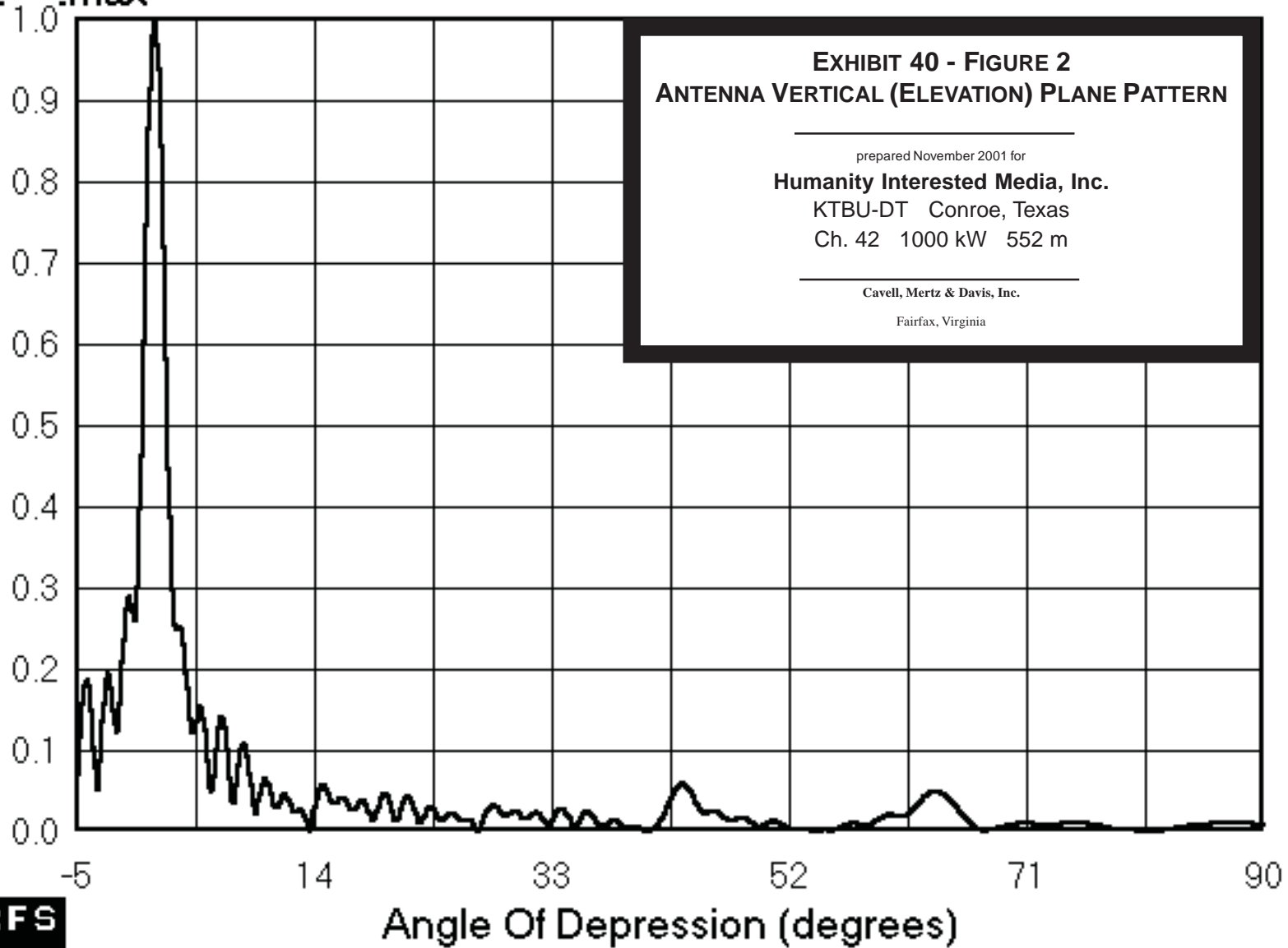
**EXHIBIT 40 - FIGURE 1**  
**ANTENNA HORIZONTAL PLANE RADIATION PATTERN**

prepared November 2001 for  
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KTBU-DT Conroe, Texas  
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Cavell, Mertz & Davis, Inc.  
Fairfax, Virginia

# Vertical Radiation Pattern

$E / E_{max}$



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

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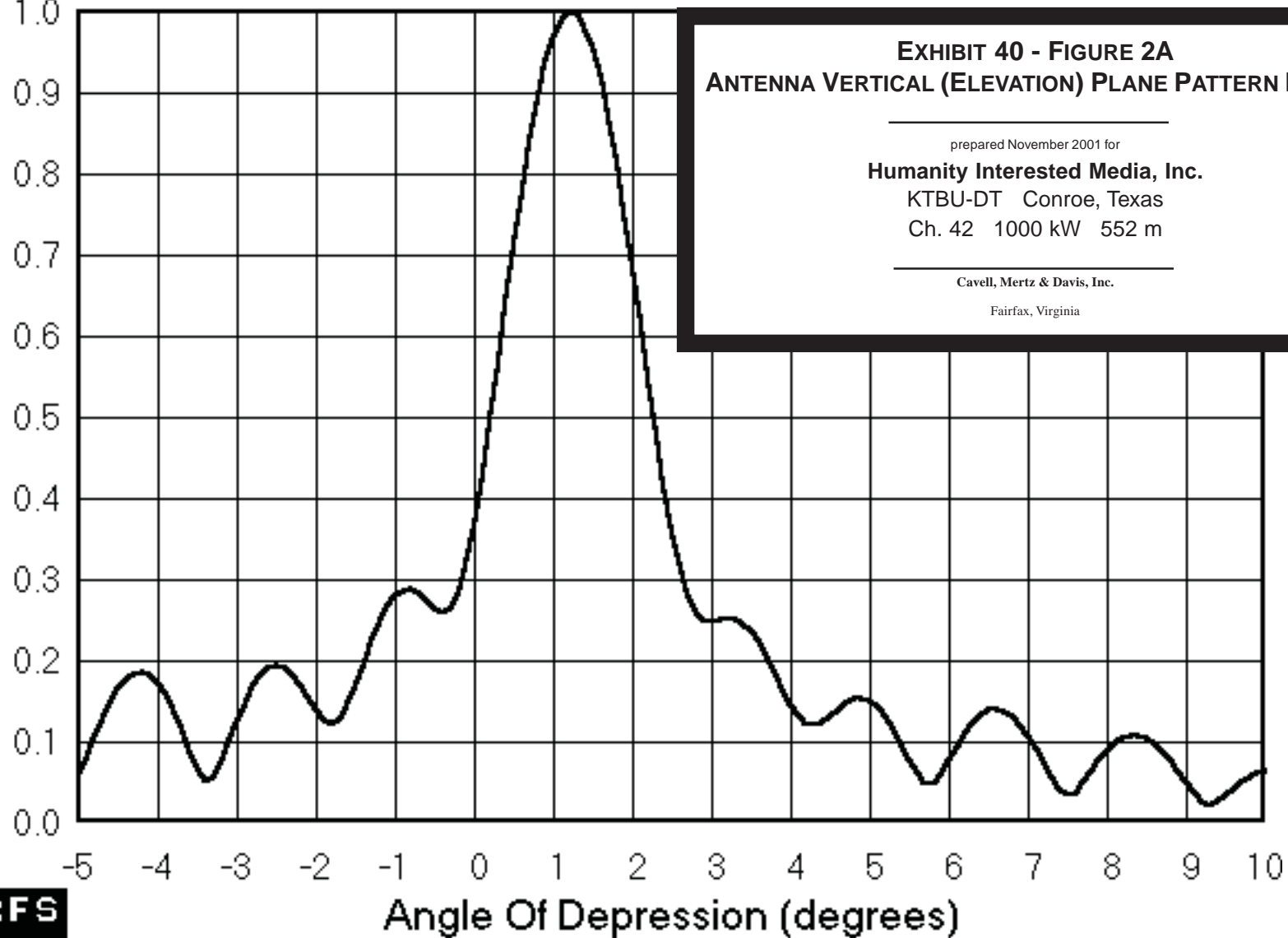
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Fairfax, Virginia



$E / E_{max}$

## Vertical Radiation Pattern



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

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