

Exhibit 40 - Statement A
PROPOSED ANTENNA SYSTEM
prepared for
USA Station Group Partnership of Massachusetts
WHUB-DT Marlborough, Massachusetts
Facility ID 60551
Ch. 23 100 kW 334 m

USA Station Group Partnership of Massachusetts, licensee of analog station WHUB-TV (Channel 66) and permittee of paired DTV station WHUB-DT (Channel 23, previously WSHH-DT), has an application pending to modify the WHUB-DT Construction Permit (file number BMPCDT-19981008KE). The pending application proposes a directional antenna system, an effective radiated power (ERP) of 100 kW and an antenna height above average terrain (HAAT) of 332 meters.

The purpose of the instant amendment is to correct the site's coordinates and elevation. The coordinate and ground elevation data are being corrected as a result of compliance with the Commission's Antenna Structure Registration program. As a result of the corrected site data, the antenna's height above mean sea level (HAMSL) and height above average terrain (HAAT) are increased slightly (from 412 meters HAMSL and 332 meters HAAT to 413 meters HAMSL and 334 meters HAAT). No other changes to the pending application are sought.

The proposed WHUB-DT antenna system will be side-mounted on the existing WHUB-TV tower structure, having FCC Antenna Structure Registration number 1046935.

The proposed transmitting antenna, a *Dielectric* model TFU-10DSC-RC170, is directional in the horizontal plane. One degree of electrical beam tilt is proposed. The effective radiated power will be 100 kilowatts, horizontally polarized. The antenna's horizontal plane pattern, expressed in terms of relative field and power, is supplied as **Figures 1 and 1A**, properly oriented relative to True North. **Figures 2 and 2A** present the theoretical vertical plane (elevation) pattern for the antenna system.



EXHIBIT 40 - FIGURE 1
ANTENNA HORIZONTAL PLANE RADIATION PATTERN
(RELATIVE FIELD)

prepared April 2001 for
USA Station Group Partnership of Massachusetts
WHUB-DT Marlborough, Massachusetts
Ch. 23 100 kW 334 m

Cavell, Mertz & Davis, Inc.
Fairfax, Virginia

AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency
Drawing #

527 MHz
TFU-C170

True North

0

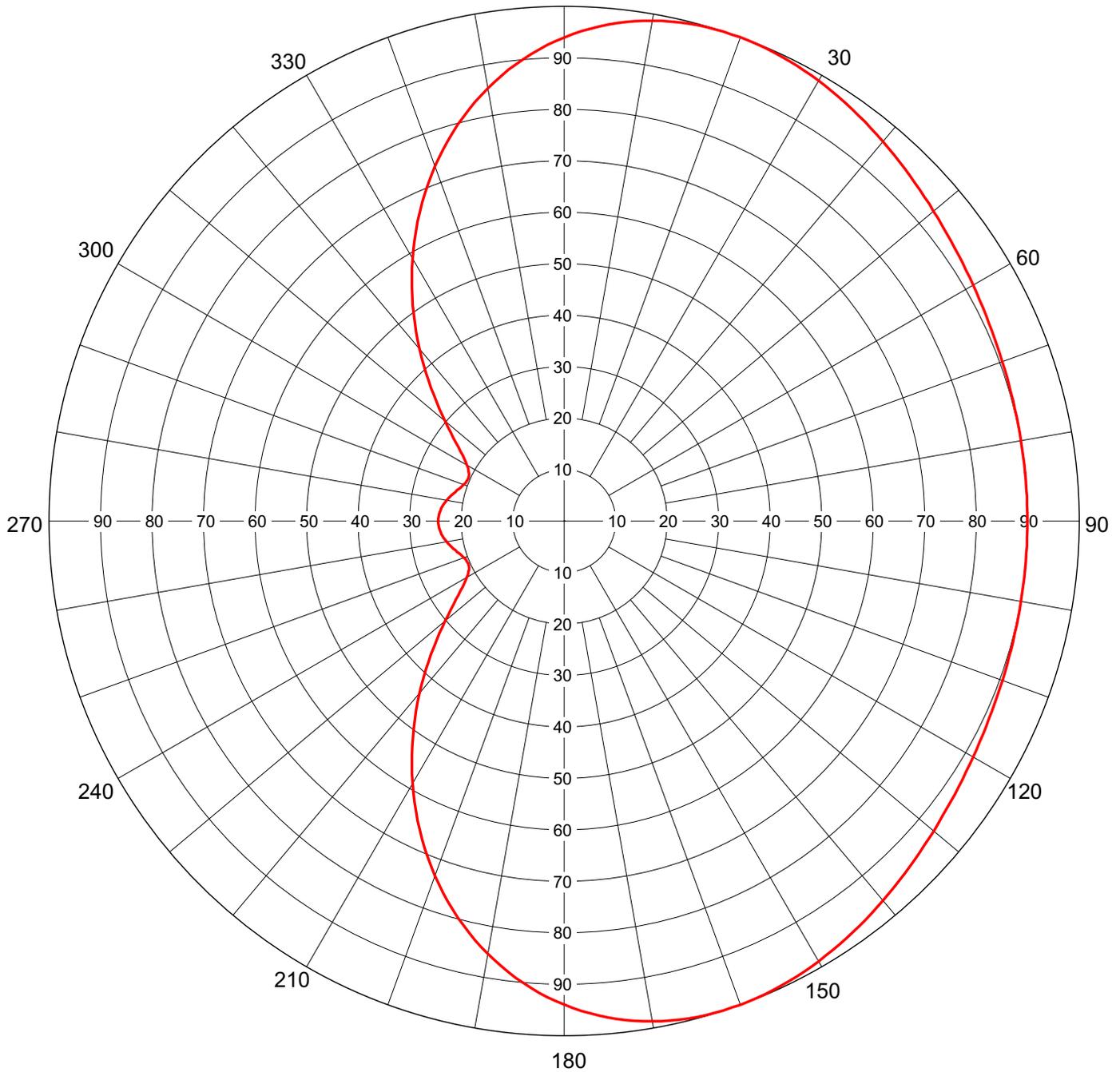




EXHIBIT 40 - FIGURE 1A
ANTENNA HORIZONTAL PLANE RADIATION PATTERN
(dBk)

prepared April 2001 for
USA Station Group Partnership of Massachusetts
WHUB-DT Marlborough, Massachusetts
Ch. 23 100 kW 334 m

Covell, Mertz & Davis, Inc.
Fairfax, Virginia

AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency
Drawing #

527 MHz
TFU-C170

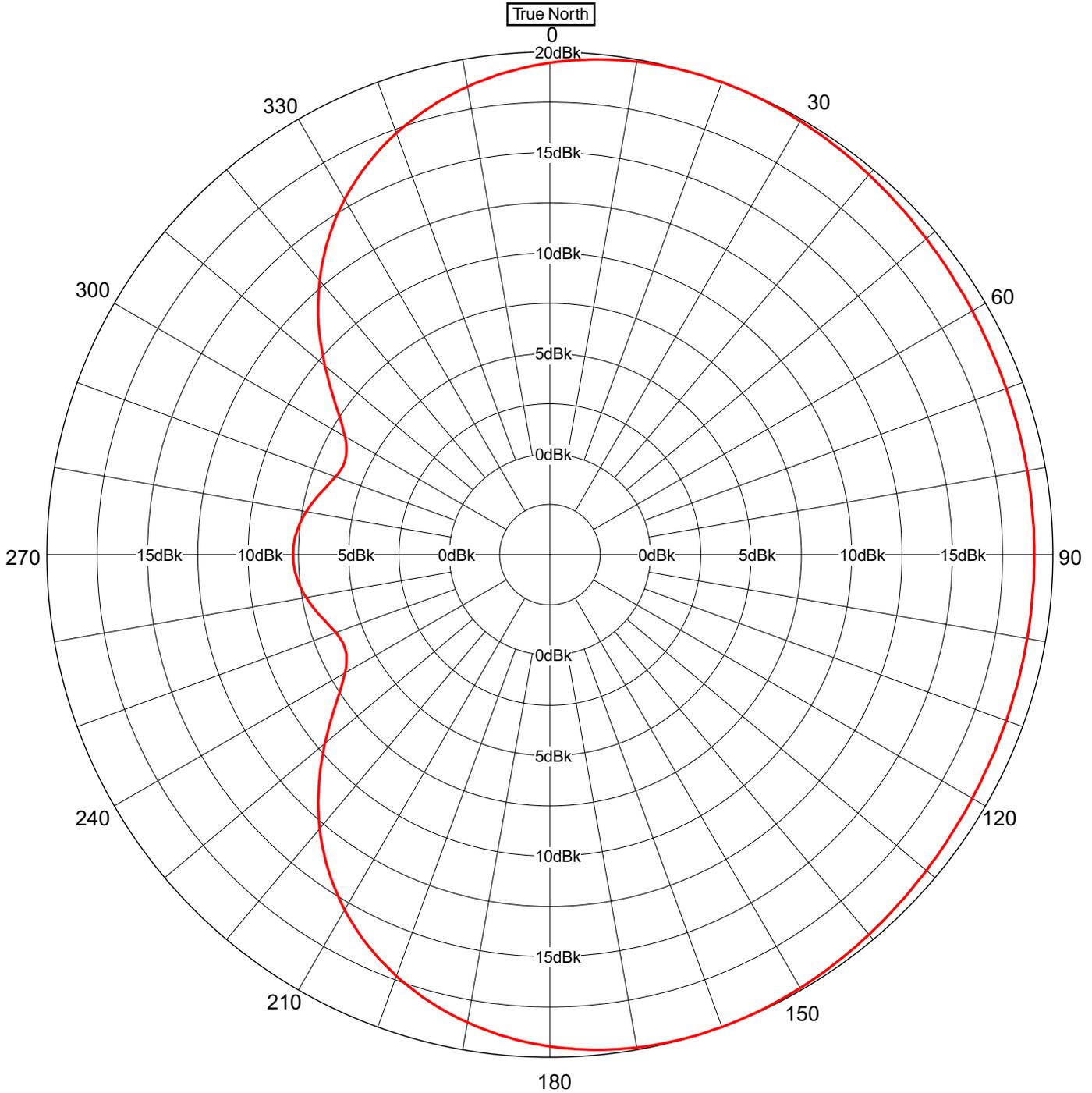




EXHIBIT 40 - FIGURE 2
ANTENNA VERTICAL PLANE (ELEVATION) PLANE PATTERN

prepared April 2001 for
USA Station Group Partnership of Massachusetts
WHUB-DT Marlborough, Massachusetts

Ch. 23 100 kW 334 m

Cavell, Meritz & Davis, Inc.
Fairfax, Virginia

ELEVATION PATTERN

RMS Gain at Main Lobe	9.6	(9.82 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	8.3	(9.19 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated		Drawing #	10Q096100-90

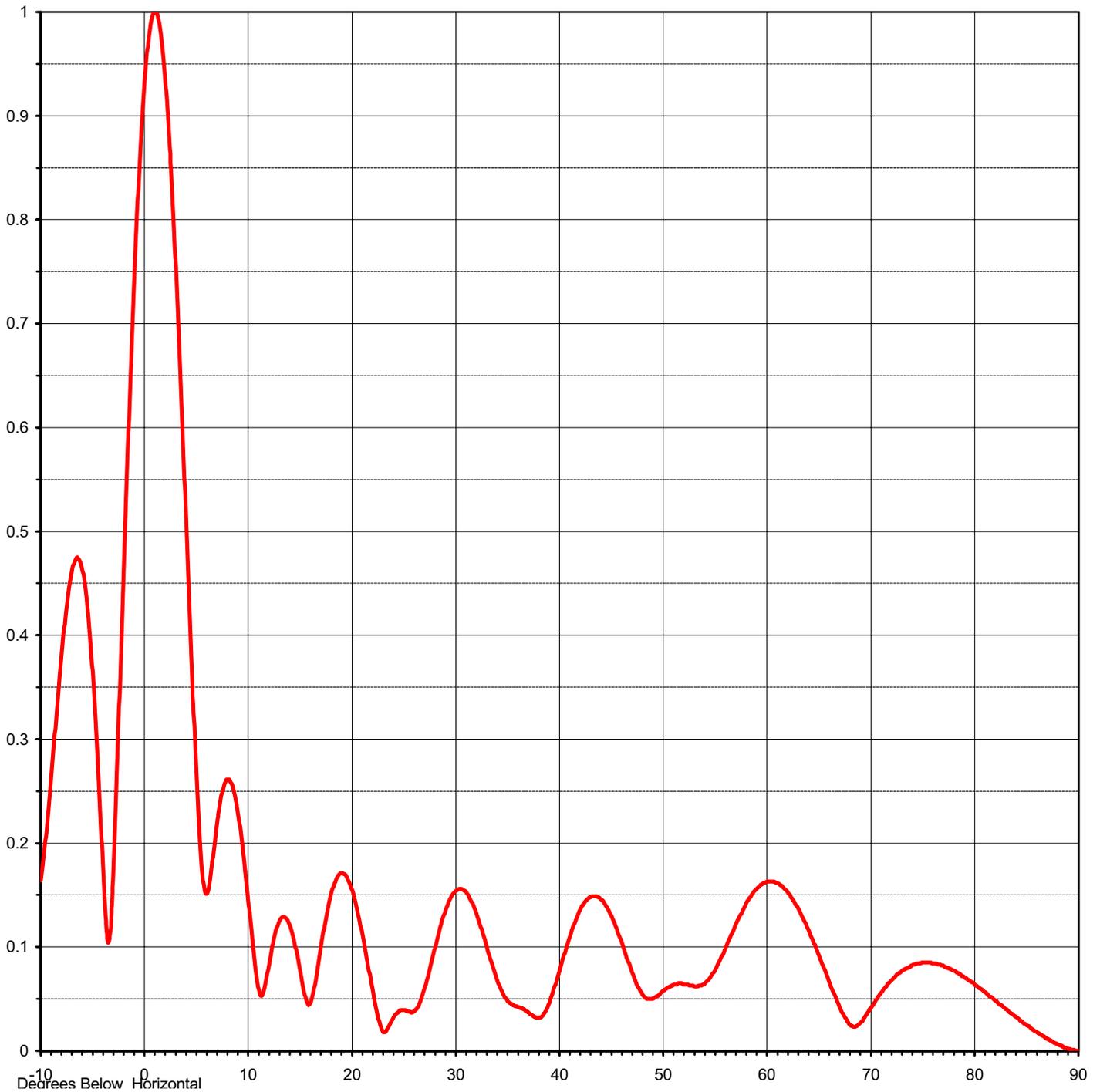




EXHIBIT 40 - FIGURE 2A
ANTENNA VERTICAL PLANE (ELEVATION) PLANE PATTERN DETAIL

prepared April 2001 for
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WHUB-DT Marlborough, Massachusetts

Ch. 23 100 kW 334 m

Cavell, Mertz & Davis, Inc.
Fairfax, Virginia

ELEVATION PATTERN

RMS Gain at Main Lobe	9.6	(9.82 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	8.3	(9.19 dB)	Frequency	527.00 MHz
Calculated / Measured	Calculated		Drawing #	10Q096100

