TECHNICAL EXHIBIT
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY
PREPARED FOR
STATION WVTM-DT
BIRMINGHAM, ALABAMA
CH 13 20 KW (MAX-DA) 403 M

Technical Statement

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 301.2 meters above ground level. The maximum DTV ERP is 20 kW (horizontal polarization) and 6.1 kW (vertical polarization). A "worst-case" vertical plane relative field value of 0.15 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Figure 2). The calculated power density at a point 2 meters above ground level is 0.0002 mW/cm^2. This is 0.1% of the FCC's recommended limit of 0.2 mW/cm^2 for channel 13 for an "uncontrolled" environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted by fencing and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect with the other stations in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure.

Finally, it is noted that this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the

environmental processing analysis have already has been provided to the FCC by the tower owner as part of the tower registration process.

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Dielectric

Proposal Number	C-02141		
Date	20-Nov-07		
Call Letters	WVTM-DT	Channel	13
Location	Birmingham, AL		
Customer			
Antenna Type	THV-9A13/VP-R O4		

ELEVATION PATTERN

RMS Gain at Main Lobe	9.00	(9.54 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	8.70	(9.40 dB)	Frequency	213.00 MHz
Calculated / Measured	Calculated		Drawing #	09V090075-90