

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION WEPX-DT  
GREENVILLE, NORTH CAROLINA  
CH 51 114 KW 140 M

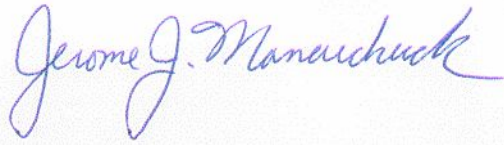
Technical Statement

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 131 meters above ground level. The maximum non-directional ERP is 114 kW (horizontal polarization). A “conservative” vertical plane relative field value of 0.3 (for angles below 60 degrees downward) was presumed for the antenna's downward radiation (see Figure 2). The calculated power density at a point 2 meters above ground level is  $0.0091 \text{ mW/cm}^2$ . This is 4.48% of the FCC's recommended limit of  $0.46 \text{ mW/cm}^2$  for channel 51 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 will be restricted and appropriately marked with RFR warning signs. Furthermore, in the event that workers or other authorized personnel enter the restricted area or climb the tower, 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 will be or already has been provided to the FCC by the tower owner as part of the tower registration process.



Jerome J. Manarchuck

du Treil, Lundin & Rackley, Inc.

201 Fletcher Avenue

Sarasota, Florida 34237-6019

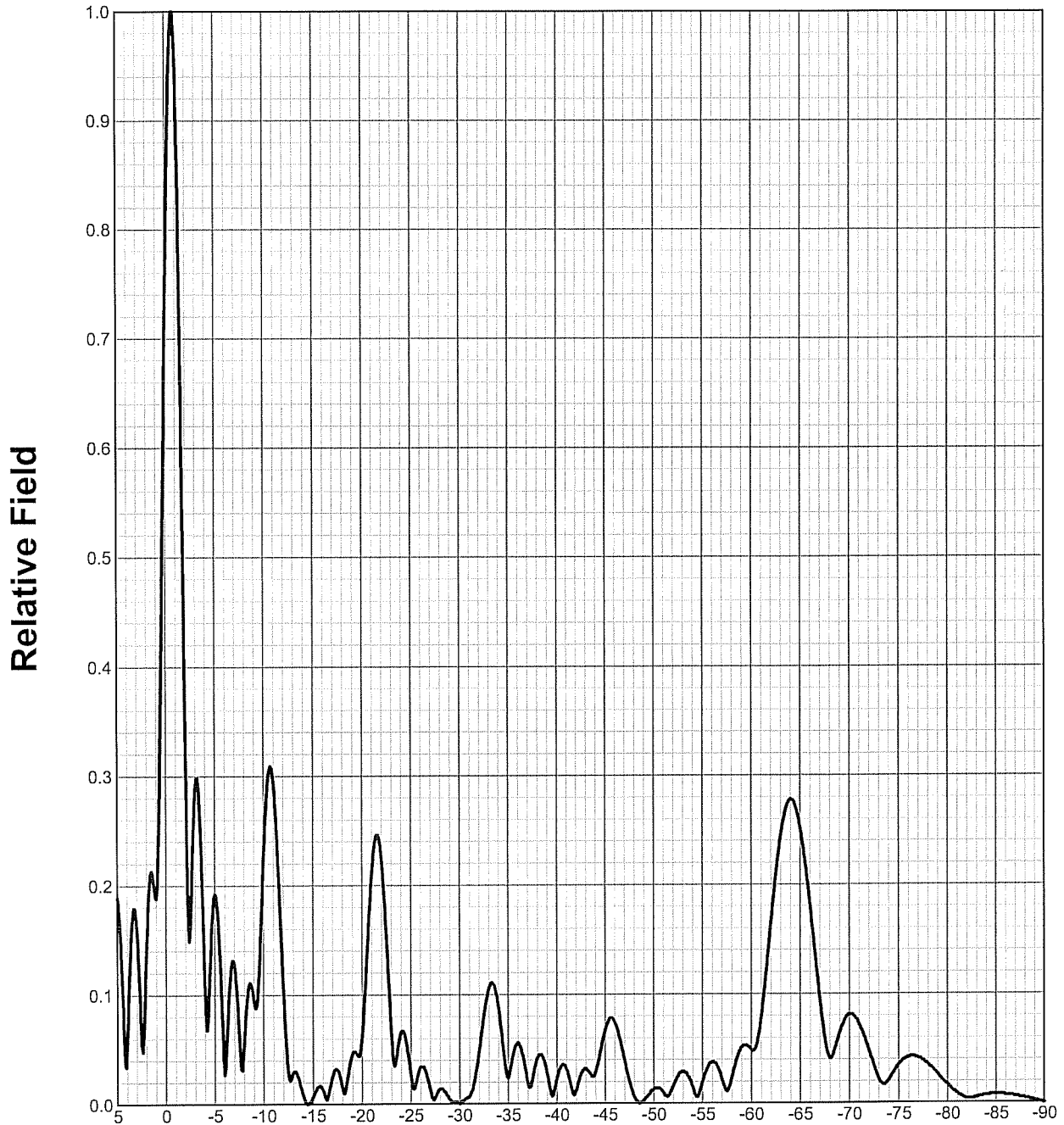
(941) 329-6000

[JERRY@DLR.COM](mailto:JERRY@DLR.COM)

March 13, 2008

**ELEVATION PATTERN**

Type:	ALP24M3		Channel:	51
Directivity:	Numeric	dBd	Location:	
Main Lobe:	25.21	14.02	Beam Tilt:	-0.75
Horizontal:	13.29	11.23	Polarization:	Horizontal



Preliminary, subject to final design and review.