

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION WCCV-DT  
ARECIBO, PUERTO RICO  
CH 46 50 KW (MAX-DA) 600 M

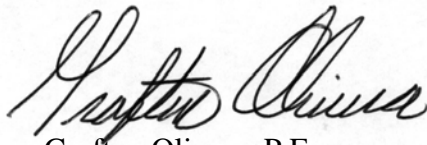
Technical Statement

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 156 meters above ground level. The maximum DTV ERP is 50 kW (horizontal polarization). A “worst-case” vertical plane relative field value of 0.2 (for angles below 10 degrees downward) is assumed for the antenna's downward radiation (see antenna pattern). The calculated power density at a point 2 meters above ground level is  $2.82 \text{ uW/cm}^2$ . This is 0.64% of the FCC's recommended limit of  $443.3 \text{ uW/cm}^2$  for channel 46 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, as this is a multi-user site, an agreement will be in effect with the other user 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, or completely turning off the station.

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.

A handwritten signature in black ink, appearing to read "Grafton Olivera", is centered on the page. The signature is fluid and cursive.

Grafton Olivera, P.E.

du Treil, Lundin & Rackley, Inc.

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March 13, 2008



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March 13, 08

Via email ([prcz@naic.edu](mailto:prcz@naic.edu))

Dr. Bob Kerr, Director  
Reinaldo Velez, Spectrum Manager  
National Astronomy and Ionosphere Center  
Arecibo Observatory  
HC3 Box 53995  
Arecibo, PR 00612

Gentlemen:

On behalf of our client, Television Station WCCV-DT, applicant for post transition digital television station on Channel 46, Arecibo, Puerto Rico, in accordance with Section 73.1030 of the FCC Rules, we are hereby notifying you of the proposed facility. The particulars of the proposal are as follows:

Proposed Facility

Geographical coordinates of antenna location (NAD83): 18-13-58.8 / 66-45-34.6  
Antenna height: 156 m AGL; 1,086 m AMSL  
Antenna directivity: 14.19 dBi (maximum; see attached antenna pattern)  
Antenna orientation: 355° true  
Proposed channel: 46 (662-668 MHz)  
Type of emission: 6M00D7W  
Effective isotropic radiated power: 82.0 kW (maximum)

Should you find any adverse effect from this proposal, please communicate via email (<mailto:Grafton@dlr.com>), fax (941-329-6031) or regular mail, so appropriate action can be taken.

Very truly yours,

Grafton Olivera, P.E.