

TECHNICAL EXHIBIT
IN SUPPORT OF
SPECIAL TEMPORARY AUTHORITY (STA)
STATION WHEC-DT (FAC. 70041)
ROCHESTER, NEW YORK
CH 10 18.1 KW-ND 153 M

Technical Narrative

This Technical Exhibit supports a Special Temporary Authority (STA) for digital television station WHEC-DT on channel 10 at Rochester, New York. Station WHEC-DT is authorized (BPCDT-20080425AAZ) to operate on digital channel 10 with a maximum nondirectional effective radiated power (ERP) of 18.1 kilowatts (kW) and an antenna height above average terrain (HAAT) of 153 meters.

Specifically, this STA is intended to allow WHEC-DT to operate digitally on channel 10 for a short period of time prior to the DTV transition. It is noted that during this short period of time, the STA operation will not cause impermissible interference to any other licensed, authorized or pending analog or digital TV and Class A TV stations.

Proposed STA Facilities

The WHEC-DT STA operation proposes a nondirectional antenna maximum ERP of 18.1 kW at an antenna HAAT of 153 meters. It is proposed to use an RCA model TF-12BH antenna at the 93.7 meter (307 foot) level on an existing tower structure (ASR 1003864). The proposed antenna radiation center height above mean sea level is 301 meters.

Figure 1 is a coverage map for the proposed STA operation. The map indicates that the predicted City-Grade contour will encompass all of the city limits of Rochester (derived from 2000 U.S. Census information for New York). It is also noted in

Figure 1 that the predicted STA 36 dBu F(50,90) noise-limited contour is identical to the authorized WHEC-DT noise-limited contour.

Radiofrequency Electromagnetic Field Exposure

The proposed WHEC-DT STA 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 STA antenna is located 93.7 meters above ground level with a maximum ERP of 18.1 kW. A “worst-case” vertical plane relative field value of 0.25 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Figure 2 attached). The calculated power density at a point 2 meters above ground level is 0.0045 mW/cm^2 . This is 2.2% of the FCC's recommended limit of 0.20 mW/cm^2 for channel 10 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 warning signs. In the event that workers or other authorized personnel enter restricted areas 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 monitors or scheduling work when the stations are at reduced power or shut down. The proposed WHEC-DT STA operation appears to be otherwise categorically excluded from environmental processing.

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.

If there are questions concerning the technical portion of this application,
please contact the office of the undersigned.

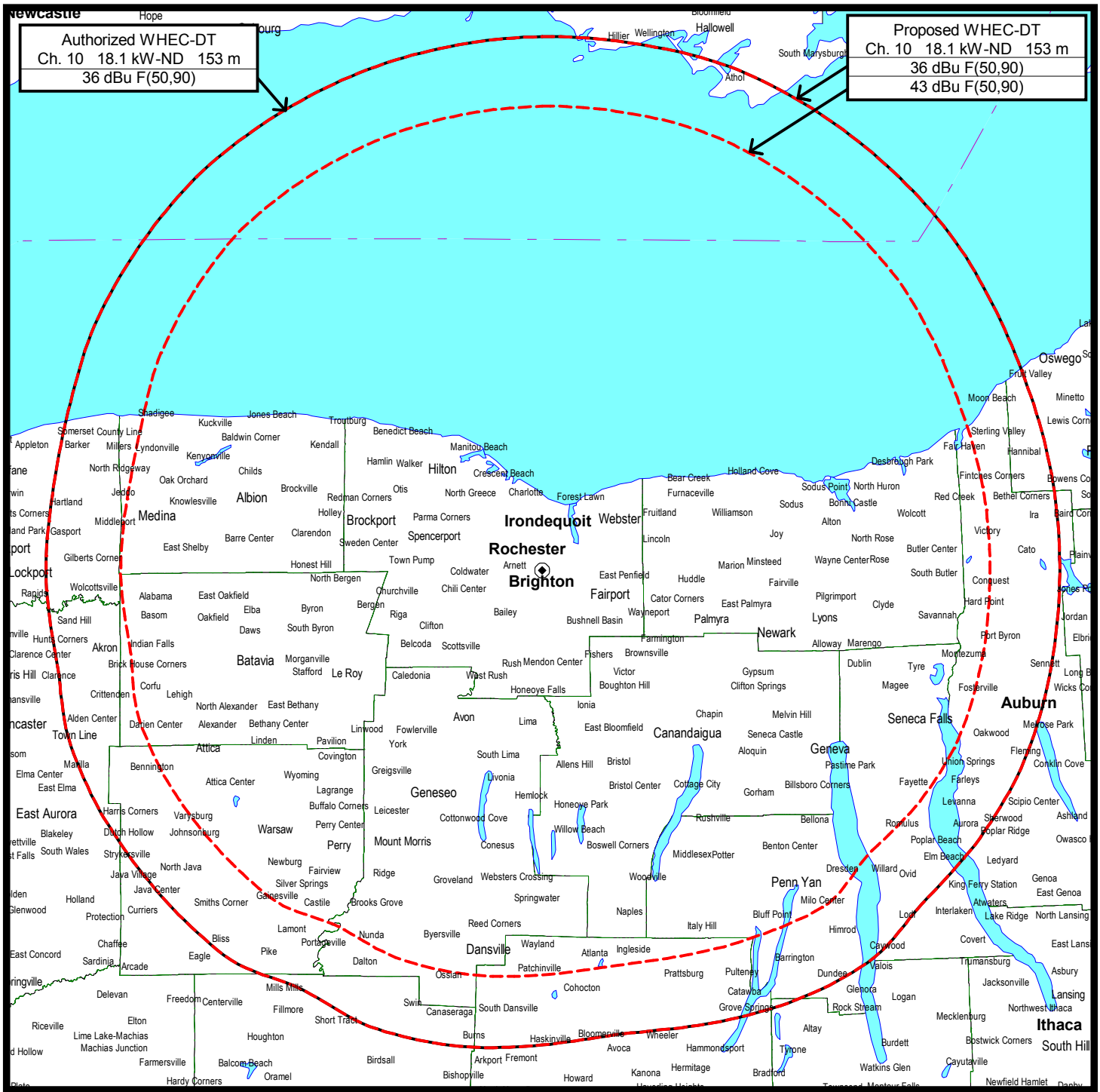
A handwritten signature in black ink, appearing to read 'T. Howell', is centered on the page.

Thomas J. Howell

du Treil, Lundin & Rackley, Inc.
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March 30, 2009

Figure 1

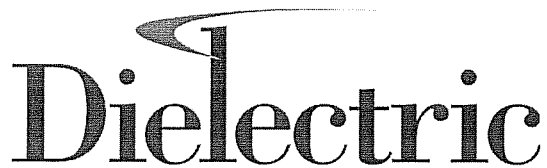


20 0 20 40 60 80 100
Kilometers

PREDICTED FCC COVERAGE CONTOURS

STATION WHEC-DT
ROCHESTER, NEW YORK
CHANNEL 10

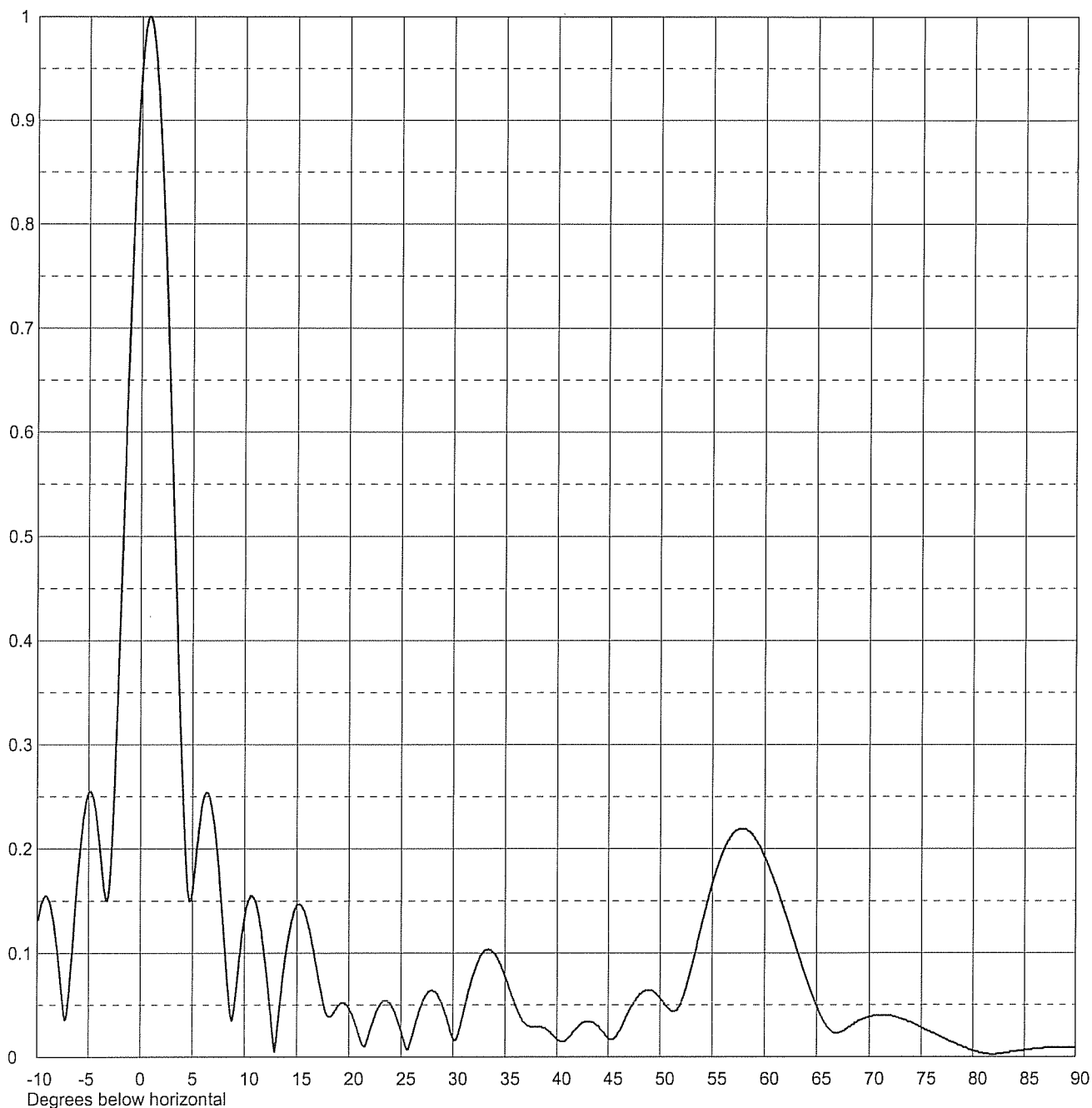
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Date	12 Mar 2008	Channel	10
Call Letters			
Location			
Customer			
Antenna Type	TF-12HT		

ELEVATION PATTERN

RMS Gain at Main Lobe	12.3 (10.90 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	11.0 (10.41 dB)	Frequency	195.00 MHz
Calculated / Measured	Calculated	Drawing #	12S123075-90



Remarks: