

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of WWTO-DT, Channel 10 in LaSalle, Illinois, in support of this amendment to its pending Application for Construction Permit (BPCDT-20080611ACK), which specifies operation with a maximized post-transition DTV facility.

The purpose of this amendment is to specify an increase in effective radiated power and a new directional antenna. No change in site location or antenna height is proposed herein. It is proposed to mount a Dielectric directional antenna at the 408-meter level of the existing 417-meter tower on which the WWTO-DT antenna is presently mounted. Exhibit B provides azimuth and elevation pattern data for the proposed antenna. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 43 dBu service contour. A revised interference study is included as Exhibit D and a new power density calculation is provided in Exhibit E.

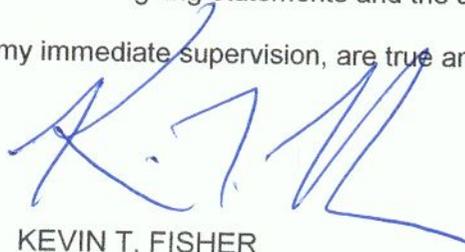
It is important to note that, while the proposed effective radiated power of 80 kw exceeds that allowable in Section 73.622(f)(7)(ii) of the Commission's Rules, the coverage of the facility proposed herein does not exceed that of the largest station in the market (WPWR-DT, Channel 51 in Gary, Indiana), as allowed in Section 73.622(f)(5) of the Rules. The area within the noise-limited service contour of WPWR-DT, as allotted, is 36,387 square kilometers, whereas the area within that of proposed WWTO-DT is only 36,282 square kilometers.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the WWTO-DT

site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1028357 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

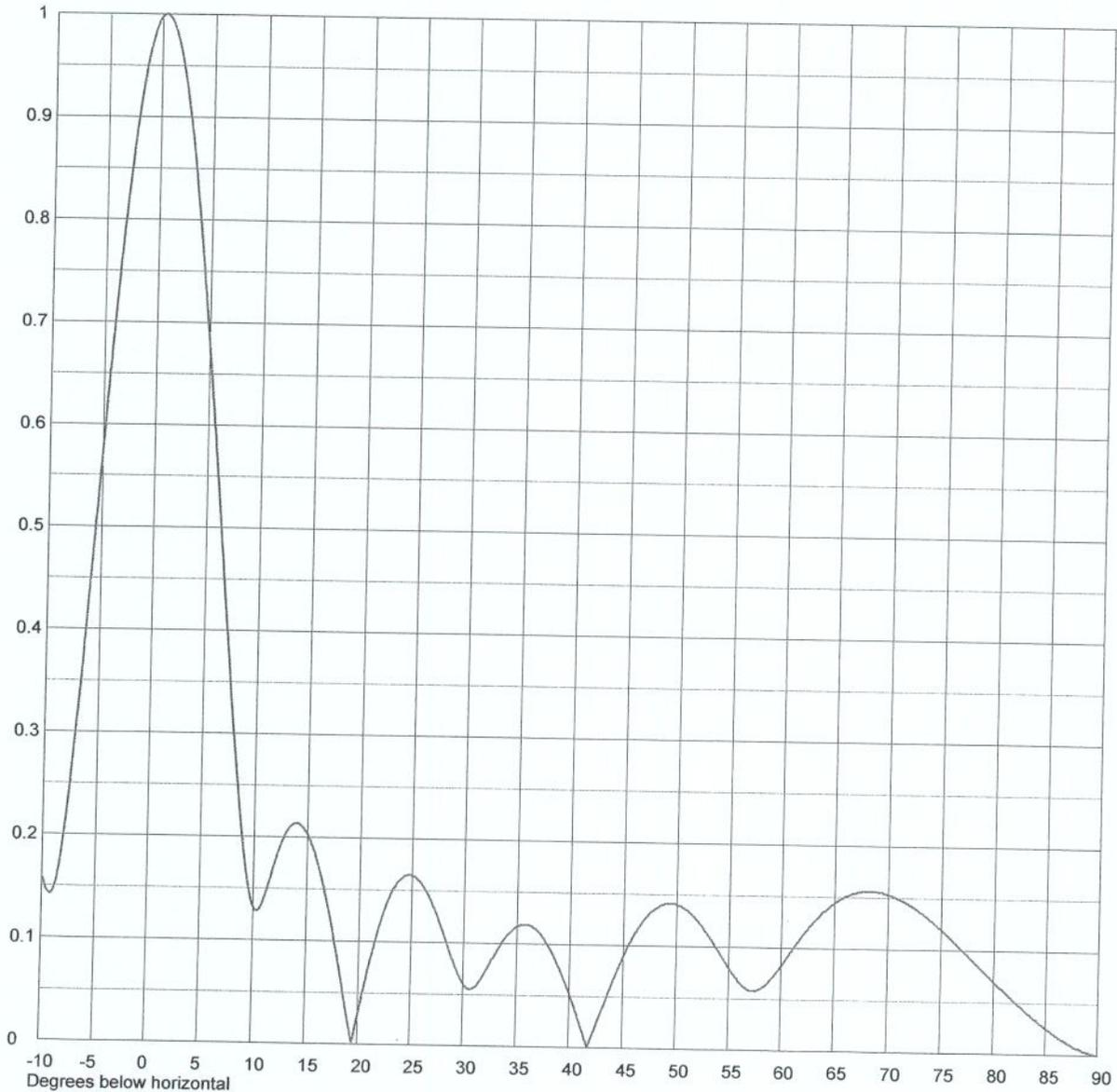
August 1, 2008

Date **31 Jul 2008**
Call Letters
Location
Customer
Antenna Type **THB-C2-6/12-1**

Channel **10**

ELEVATION PATTERN

RMS Gain at Main Lobe	6.0 (7.78 dB)	Beam Tilt	0.60 Degrees
RMS Gain at Horizontal	6.0 (7.78 dB)	Frequency	195.00 MHz
Calculated / Measured	Calculated	Drawing #	06H060060-90



Remarks:

EXHIBIT B-1
ANTENNA ELEVATION PATTERN
PROPOSED WWTO-DT
CHANNEL 10 - LASALLE, ILLINOIS
[AMENDMENT TO BPCDT-20080611ACK]
SMITH AND FISHER

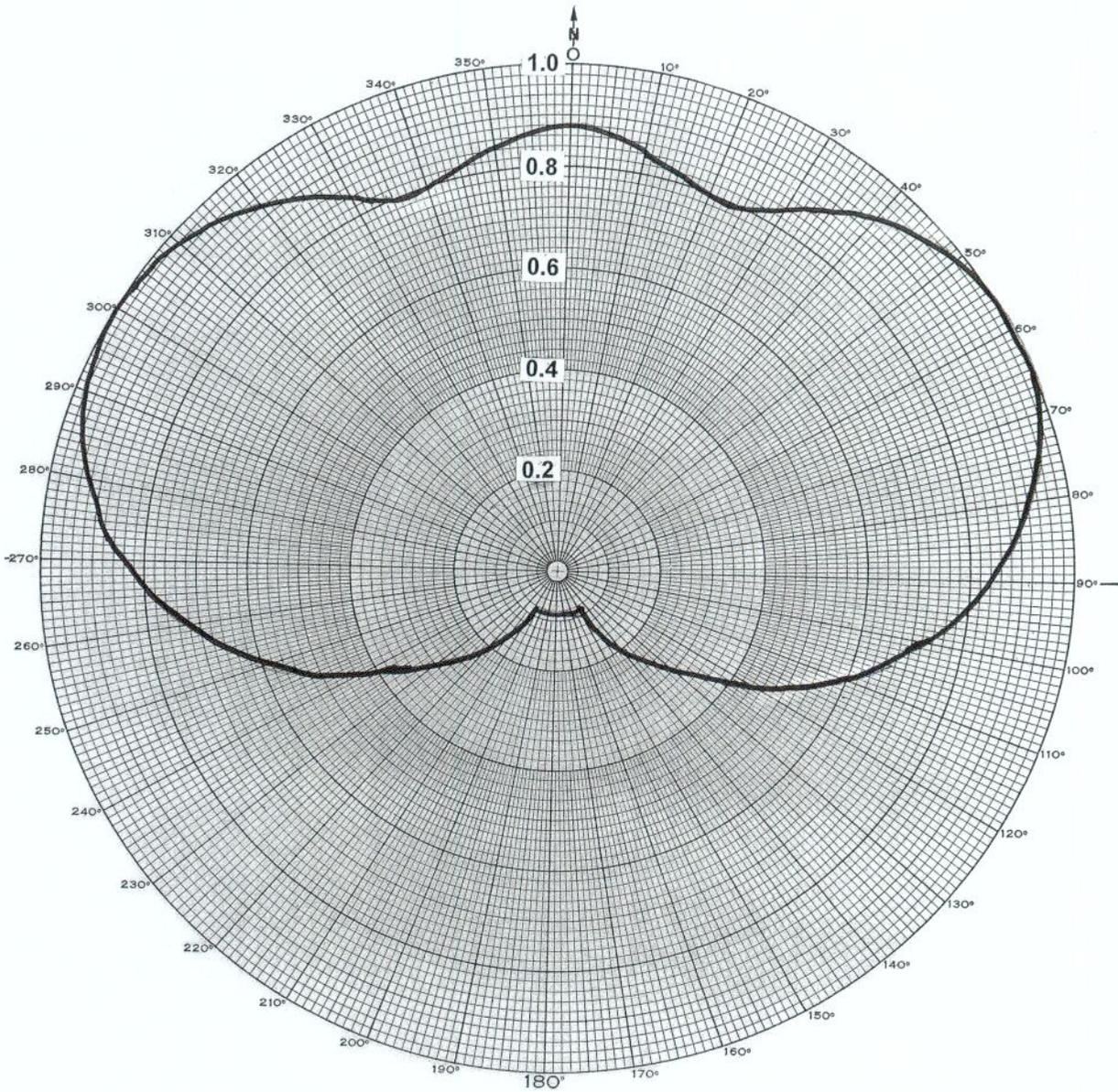


EXHIBIT B-2
ANTENNA AZIMUTH PATTERN
PROPOSED WWTO-DT
CHANNEL 10 – LASALLE, ILLINOIS
[AMENDMENT TO BPCDT-20080611ACK]

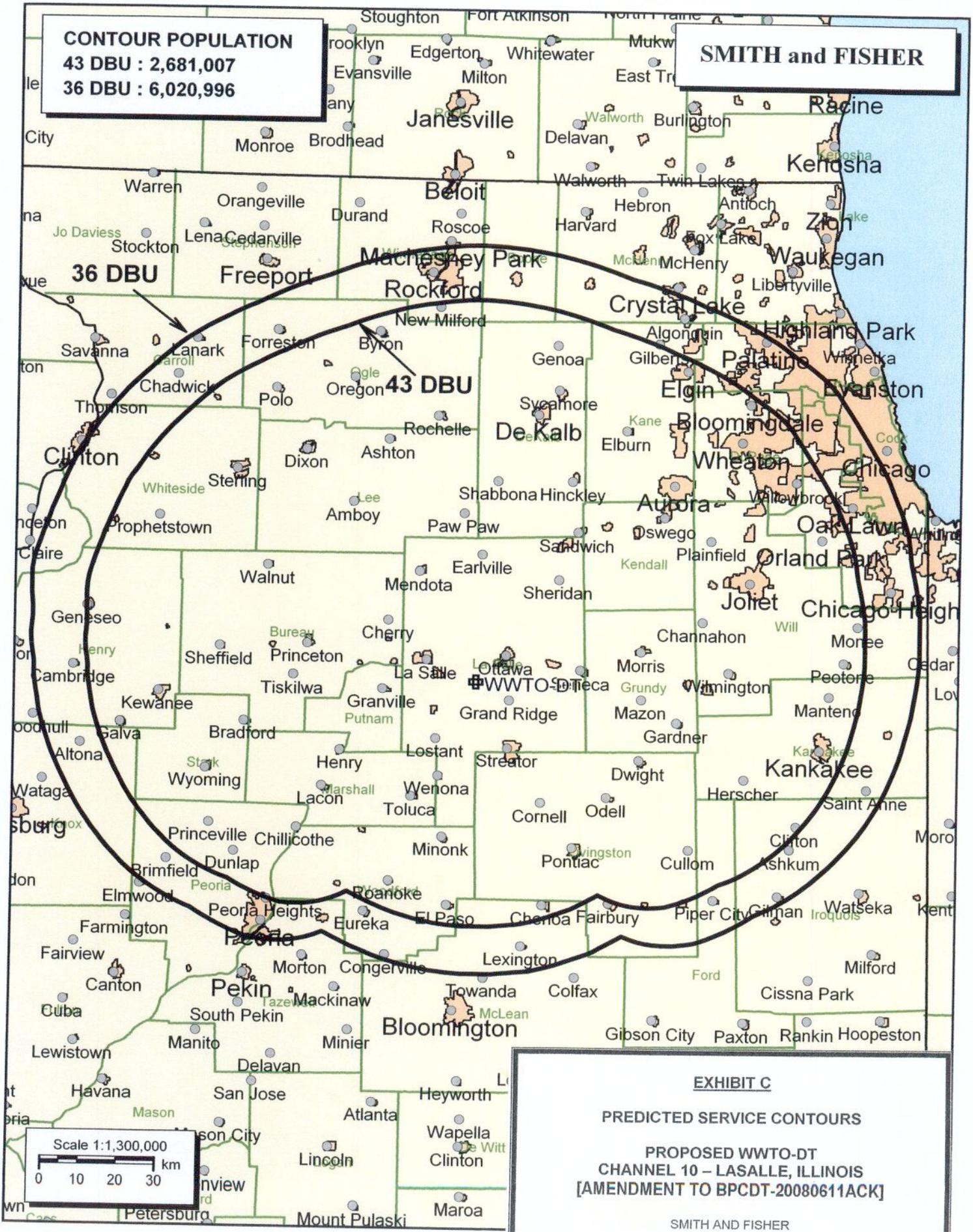
SMITH AND FISHER

ANTENNA AZIMUTH PATTERN DATA
PROPOSED WWTO-DT
CHANNEL 10 – LASALLE, ILLINOIS
[AMENDMENT TO BPCDT-20080611ACK]

<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)	<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)
0	0.883	17.9	180	0.090	-1.9
10	0.851	17.6	190	0.090	-1.9
20	0.805	17.1	200	0.090	-1.9
30	0.844	17.5	210	0.090	-1.9
40	0.929	18.4	220	0.200	5.0
50	0.982	18.8	230	0.282	8.0
60	1.000	19.0	240	0.441	11.9
70	0.982	18.8	250	0.594	14.5
80	0.929	18.4	260	0.730	16.3
90	0.844	17.5	270	0.844	17.5
100	0.730	16.3	280	0.929	18.4
110	0.594	14.5	290	0.982	18.8
120	0.441	11.9	300	1.000	19.0
130	0.282	8.0	310	0.982	18.8
140	0.200	5.0	320	0.929	18.4
150	0.090	-1.9	330	0.844	17.5
160	0.090	-1.9	340	0.805	17.1
170	0.090	-1.9	350	0.851	17.6

CONTOUR POPULATION
43 DBU : 2,681,007
36 DBU : 6,020,996

SMITH and FISHER



INTERFERENCE STUDY
PROPOSED WWTO-DT
CHANNEL 10 – LASALLE, ILLINOIS
[AMENDMENT TO BPCDT-20080611ACK]

The instant application specifies an ERP of 80 kw (directional) at 415 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various post-transition digital television facilities as they will exist on or before February 17, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe III" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a cell size of 2.0 kilometers and an increment spacing of 1.0 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed WWTO-DT to other pertinent stations are tabulated in Exhibit D-2.

As shown, the proposed WWTO-DT facility would not contribute more than 0.5% interference (beyond that which is caused by the allotted WWTO-DT facility) to the service population of any potentially affected post-transition DTV station.

A Longley-Rice interference study also reveals that the proposed WWTO-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

INTERFERENCE STUDY SUMMARY
 PROPOSED WWTO-DT
 CHANNEL 10 – LASALLE, ILLINOIS
 [AMENDMENT TO BPCDT-20080611ACK]

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WWTO-DT*</u>	<u>%</u>
WILL-DT	Urbana, IL	9	1,111,646	838	<0.1
WGEM-DT (Allot.)	Quincy, IL	10	314,068	1,131	0.36
WTHI-DT (Appl.)	Terre Haute, IN	10	874,066	208	<0.1
WILX-DT (Allot.)	Onandaga, MI	10	2,463,702	2,822	0.12
KTTC-DT	Rochester, MN	10	575,777	253	<0.1
WGEM-DT (CP)	Quincy, IL	10	310,607	1,035	0.33
WGEM-DT (Appl.)	Quincy, IL	10	318,875	1,063	0.33
WILX-DT (Appl.)	Onandaga, MI	10	3,071,369	5,674	0.18

*Above that caused by the allotment facility.

Note: The study utilized a cell size of 2.0 kilometers and an increment spacing of 1.0 kilometer.

POWER DENSITY CALCULATION
PROPOSED WWTO-DT
CHANNEL 10 – LA SALLE, ILLINOIS
[AMENDMENT TO BPCDT-20080611ACK]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this La Salle facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 80 kw, an antenna radiation center 408 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.00036 mw/cm^2 is calculated to occur 164 meters north of the base of the tower. Since this is only 0.2 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 10 (192-198 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.