

ENGINEERING STATEMENT

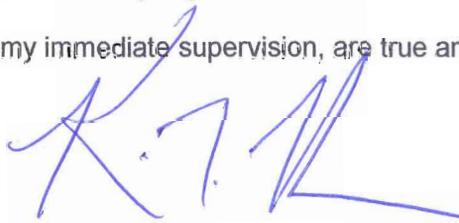
The engineering data contained herein have been prepared on behalf of TCT OF MICHIGAN, INC., licensee of WTLJ-DT, Channel 24 in Muskegon, Michigan in support of its Application for Construction Permit to operate with a maximized post-transition DTV facility.

It is proposed to utilize the existing Andrew directional antenna, which is mounted at the 280-meter level of an existing 301-meter tower. Exhibit B provides elevation and azimuth pattern data for the licensed 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 48 dBu service contour. An interference study is included in Exhibit D, and it is important to note that the study utilized a cell size of 2.0 kilometers and an increment spacing of 1.0 kilometers. A power density calculation is provided in Exhibit E.

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 WTLJ-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. The FCC issued Antenna Structure Registration Number 1002079 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.



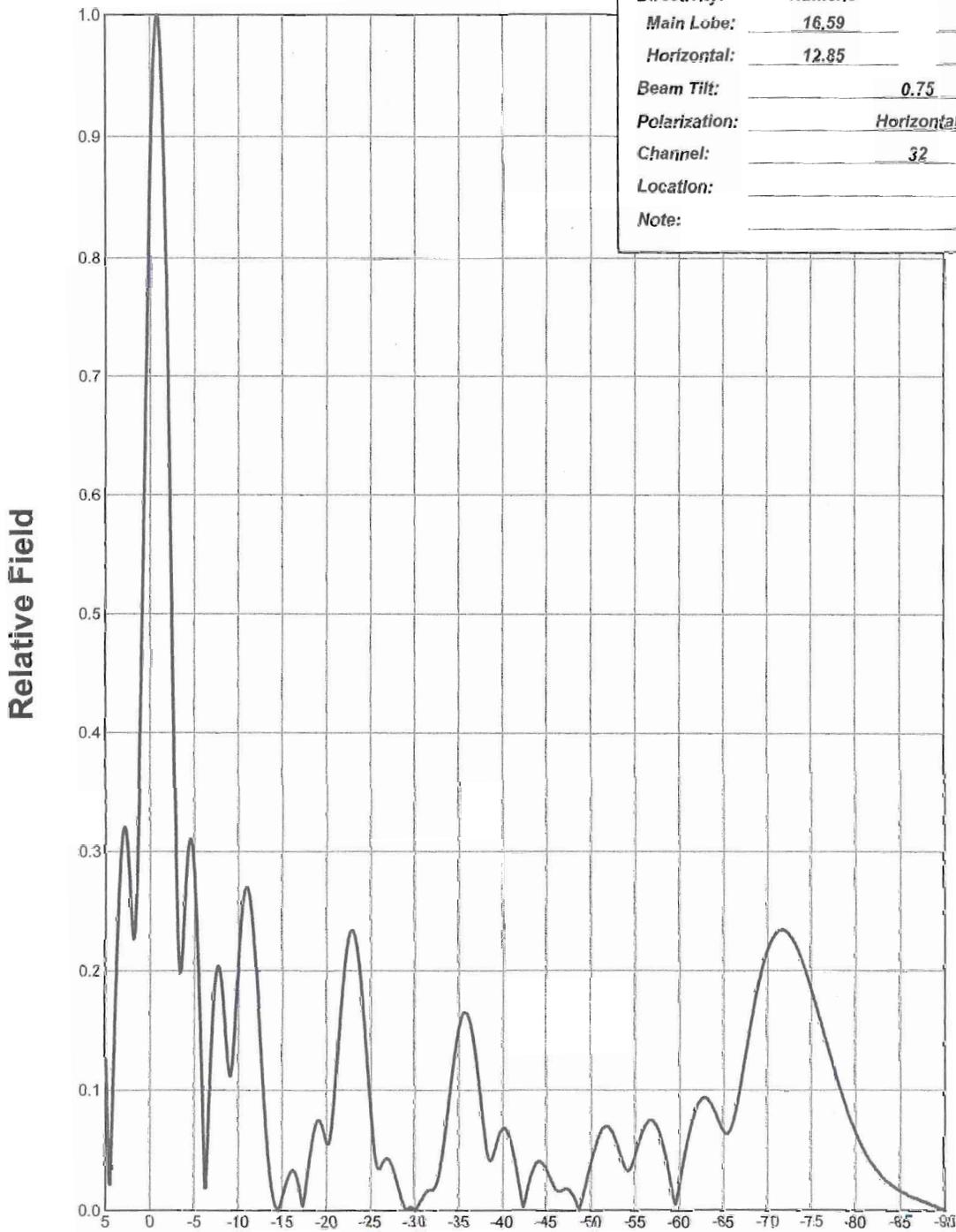
KEVIN T. FISHER

June 16, 2008



ELEVATION PATTERN

Type:	ALP16M3	
Directivity:	Numeric	dBd
Main Lobe:	16.59	12.20
Horizontal:	12.85	11.09
Beam Tilt:	0.75	
Polarization:	Horizontal	
Channel:	32	
Location:		
Note:		



Electronics Research, Inc.
7777 Garner Road
Chandler, Indiana U.S.A. 47610

EXHIBIT B-1

ANTENNA ELEVATION PATTERN

PROPOSED WTLJ-DT
CHANNEL 24 - MUSKEGON, MICHIGAN

SMITH AND FISHER

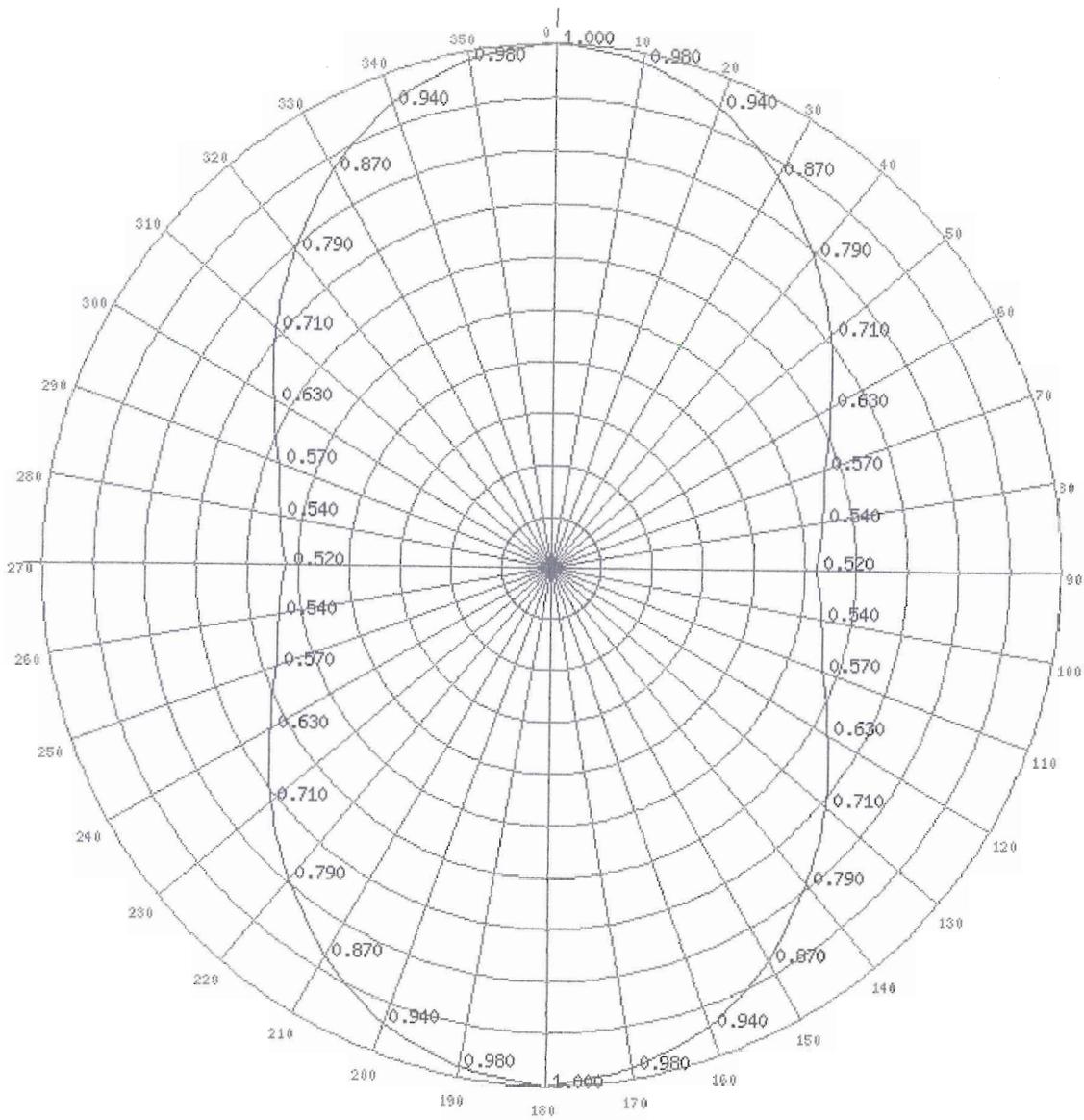


EXHIBIT B-2
ANTENNA AZIMUTH PATTERN
PROPOSED WTLJ-DT
CHANNEL 24 – MUSKEGON, MICHIGAN
SMITH AND FISHER

ANTENNA AZIMUTH PATTERN DATA

PROPOSED WTLJ-DT
CHANNEL 24 – MUSKEGON, MICHIGAN

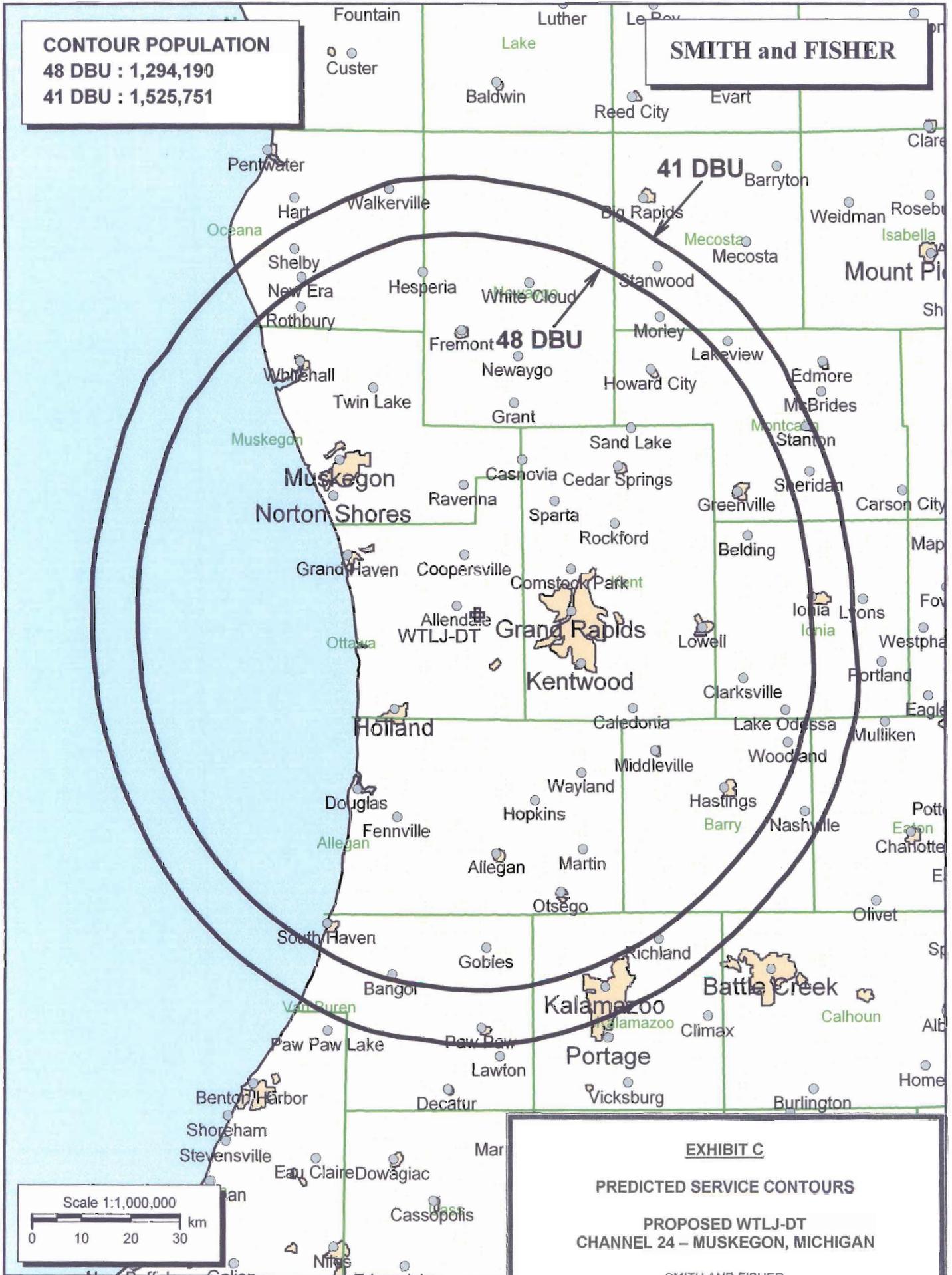
<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)	<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)
0	1.00	26.0	180	1.00	26.0
10	0.98	25.8	190	0.98	25.8
20	0.94	25.5	200	0.94	25.5
30	0.87	24.8	210	0.87	24.8
40	0.79	24.0	220	0.79	24.0
50	0.71	23.0	230	0.71	23.0
60	0.63	22.0	240	0.63	22.0
70	0.57	21.1	250	0.57	21.1
80	0.54	20.6	260	0.54	20.6
90	0.52	20.3	270	0.52	20.3
100	0.54	20.6	280	0.54	20.6
110	0.57	21.1	290	0.57	21.1
120	0.63	22.0	300	0.63	22.0
130	0.71	23.0	310	0.71	23.0
140	0.79	24.0	320	0.79	24.0
150	0.87	24.8	330	0.87	24.8
160	0.94	25.5	340	0.94	25.5
170	0.98	25.8	350	0.98	25.8

CONTOUR POPULATION

48 DBU : 1,294,190

41 DBU : 1,525,751

SMITH and FISHER



Scale 1:1,000,000

0 10 20 30 km

EXHIBIT C

PREDICTED SERVICE CONTOURS

**PROPOSED WTLJ-DT
CHANNEL 24 - MUSKEGON, MICHIGAN**

SMITH AND FISHER

INTERFERENCE STUDY
PROPOSED WTLJ-DT
CHANNEL 24 – MUSKEGON, MICHIGAN

The instant application specifies an ERP of 395 kw (directional) at 283 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 WTLJ-DT to other pertinent stations are tabulated in Exhibit D-2.

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

A Longley-Rice interference study also reveals that the proposed WTLJ-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 WTLJ-DT
CHANNEL 24 – MUSKEGON, MICHIGAN

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WTLJ-DT*</u>	<u>%</u>
WCML-DT	Alpena, MI	24	220,283	977	0.44
WBGC-CA	Holland, MI	25	177,643	51	<0.1
WPTA-DT	Fort Wayne, IN	24	1,042,756	789	<0.1

*Above that caused by the allotment facility.

Note: This study utilized a cell size of 2.0 km and an increment spacing of 1.0 km.

POWER DENSITY CALCULATION
PROPOSED WTLJ-DT
CHANNEL 24 – MUSKEGON, MICHIGAN

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Muskegon facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 395 kw, an antenna radiation center 280 meters above ground, and the elevation pattern of the Andrew antenna, maximum power density two meters above ground of 0.0085 mw/cm^2 is calculated to occur 90 meters north and south of the base of the tower. Since this is only 2.4 percent of the 0.35 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 24 (530-536 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.