

ENGINEERING STATEMENT

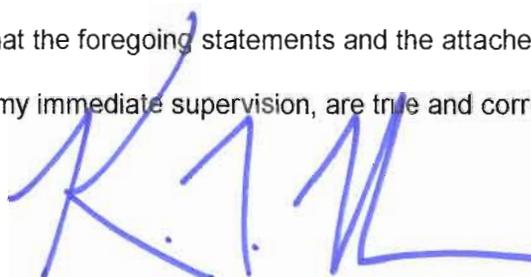
The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of WCLJ-DT, Channel 56, in Bloomington, Indiana, in support of its Application for Construction Permit to operate on Channel 42 with a maximized post-transition DTV facility.

It is proposed to mount a standard ERI omnidirectional antenna at the 295-meter level of the existing 305-meter tower on which the present WCLJ-DT antenna is mounted. Exhibit B provides 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 48 dBu service contour. An interference study is included in Exhibit D, and 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 WCLJ-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 1041579 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.

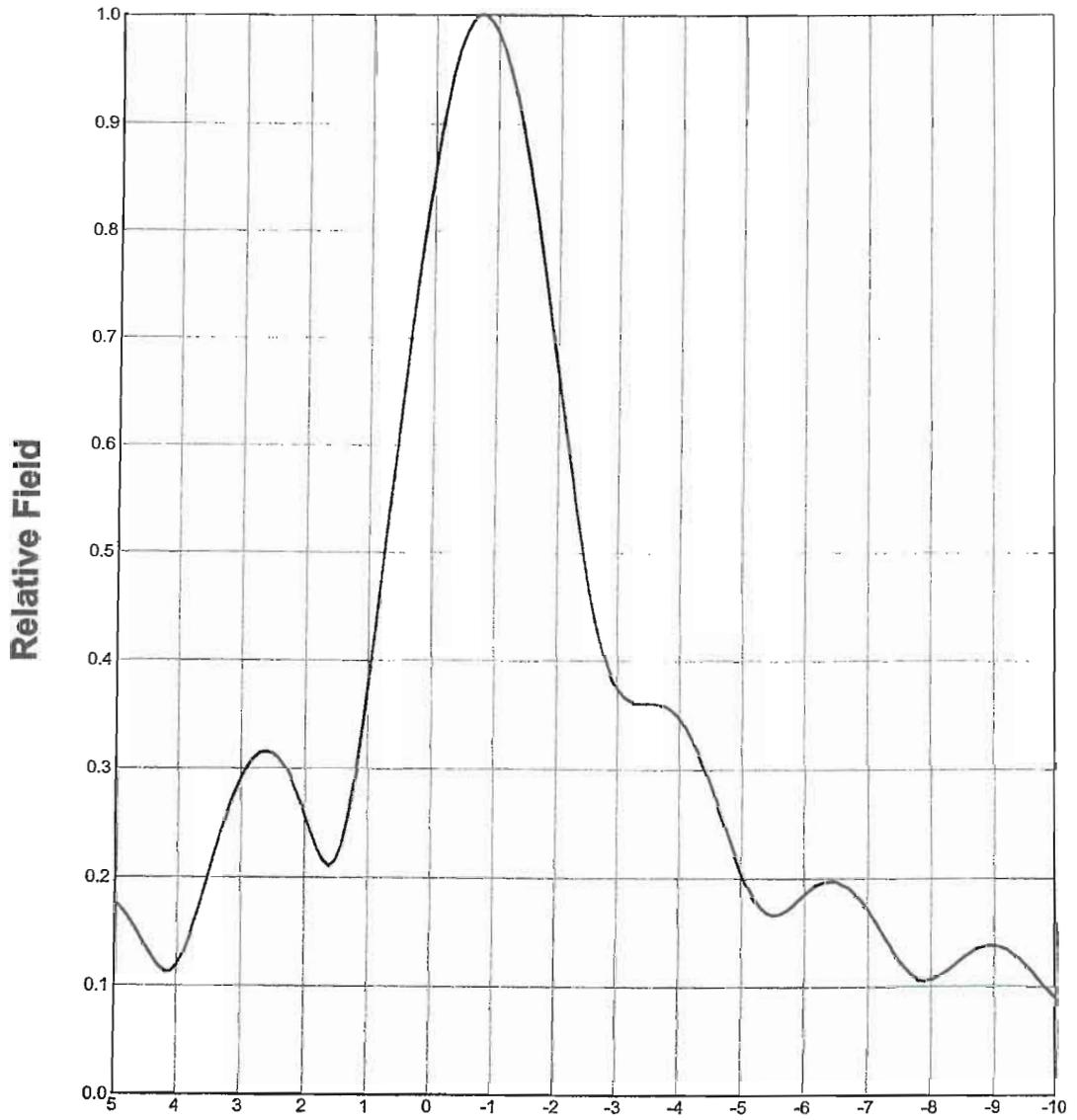


KEVIN T. FISHER

June 2, 2008

ELEVATION PATTERN

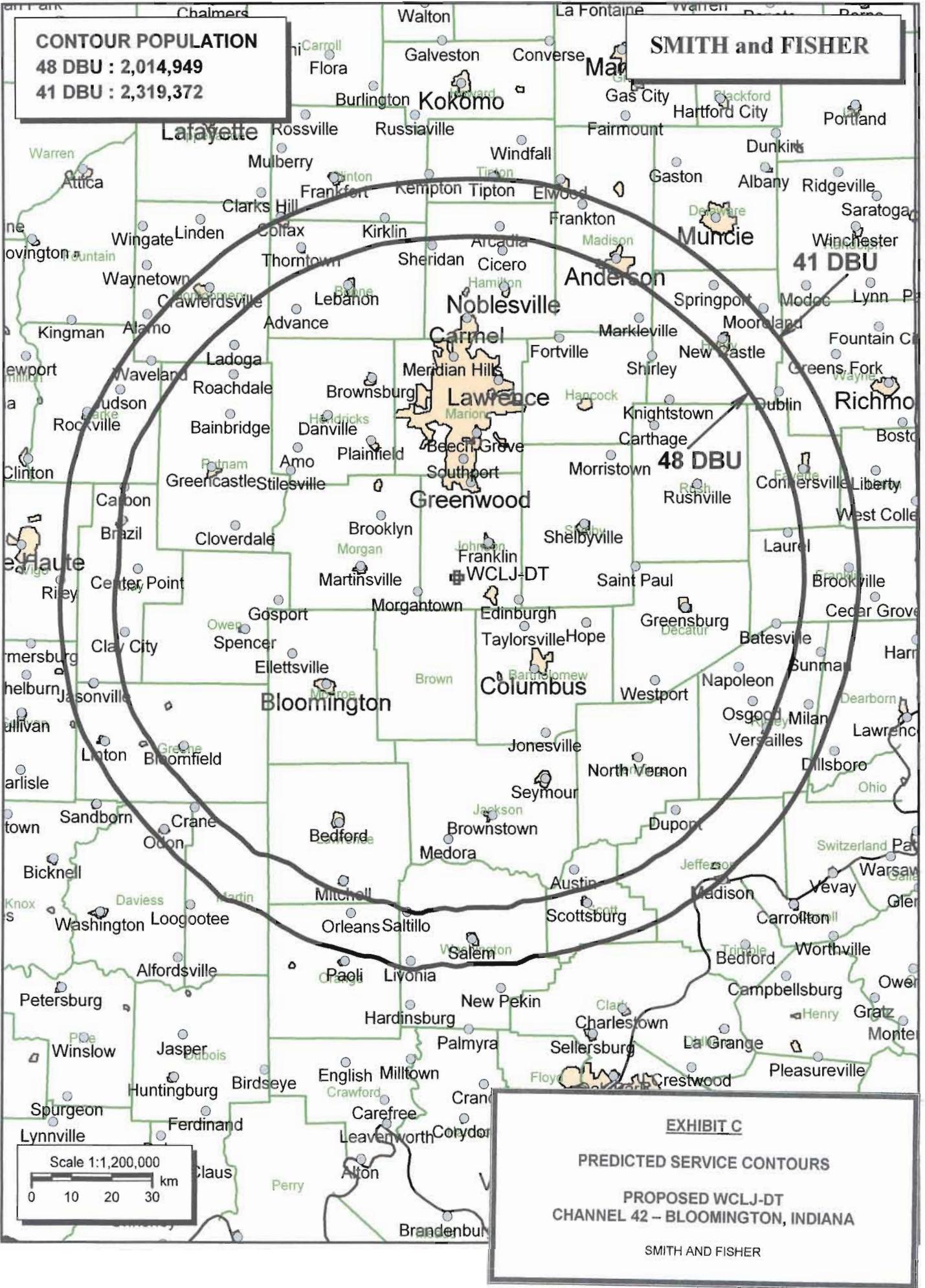
Type:	ATW22H3H		Channel:	42
Directivity:	Numeric	dBd	Location:	Bloomington, Indiana
Main Lobe:	22.00	13.42	Beam Tilt:	-0.75
Horizontal:	16.16	12.08	Polarization:	Horizontal



Preliminary, subject to final design and review.

ELECTRONICS RESEARCH, INC. **ERI**

EXHIBIT B
ANTENNA ELEVATION PATTERN
PROPOSED WCLJ-DT
CHANNEL 42 - BLOOMINGTON, INDIANA
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CONTOUR POPULATION

48 DBU : 2,014,949

41 DBU : 2,319,372

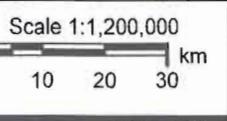
SMITH and FISHER

EXHIBIT C

PREDICTED SERVICE CONTOURS

PROPOSED WCLJ-DT
CHANNEL 42 – BLOOMINGTON, INDIANA

SMITH AND FISHER



INTERFERENCE STUDY
PROPOSED WCLJ-DT
CHANNEL 42 – BLOOMINGTON, INDIANA

The instant application specifies an ERP of 900 kw (omnidirectional) at 314 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various 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 WCLJ-DT to other pertinent stations are tabulated in Exhibit D-2.

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

A Longley-Rice interference study also reveals that the proposed WCLJ-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 WCLJ-DT
CHANNEL 42 – BLOOMINGTON, INDIANA

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WCLJ-DT*</u>	<u>%</u>
WKLE-DT Allotment	Lexington, KY	42	734,782	3,602	0.49
WNDU-DT Allotment	South Bend, IN	42	1,631,132	1,061	<0.1
WKMA-DT Allotment	Madisonville, KY	42	418,151	139	<0.1
WICS-DT	Springfield, IL	42	993,507	94	<0.1

*Above that caused by the WCLJ-DT allotment facility.

POWER DENSITY CALCULATION
PROPOSED WCLJ-DT
CHANNEL 42 – BLOOMINGTON, INDIANA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Bloomington facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 900 kw, an antenna radiation center 295 meters above ground, and the elevation pattern of the ERI antenna, maximum power density two meters above ground of 0.0015 mw/cm^2 is calculated to occur 79 meters from the base of the tower. Since this is only 0.3 percent of the 0.43 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 42 (638-644 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.