

EXHIBIT A

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 this amendment to its Application for Construction Permit (BPCDT-20080618ATP), a proposal to operate on Channel 42 with a maximized post-transition DTV facility. The purpose of this amendment is to reduce the proposed effective radiated power from 900 kw to 850 kw in order to satisfy an interference issue with WKLE-DT in Lexington, Kentucky. No change in antenna height, antenna model or site location is proposed herein.

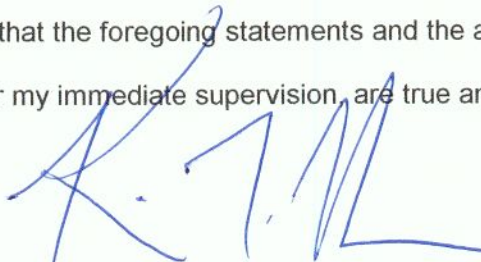
The elevation pattern of the proposed antenna is provided again in Exhibit B. Exhibit C is a map upon which the revised service contours are plotted. As shown, the city of license continues to be completely contained within the proposed 48 dBu service contour. An interference study is included in Exhibit D, and it is important to note that it utilizes a 1.0 kilometer cell size and 0.1 kilometer increment spacing. 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.

EXHIBIT A

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.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', is written over the text of the declaration.

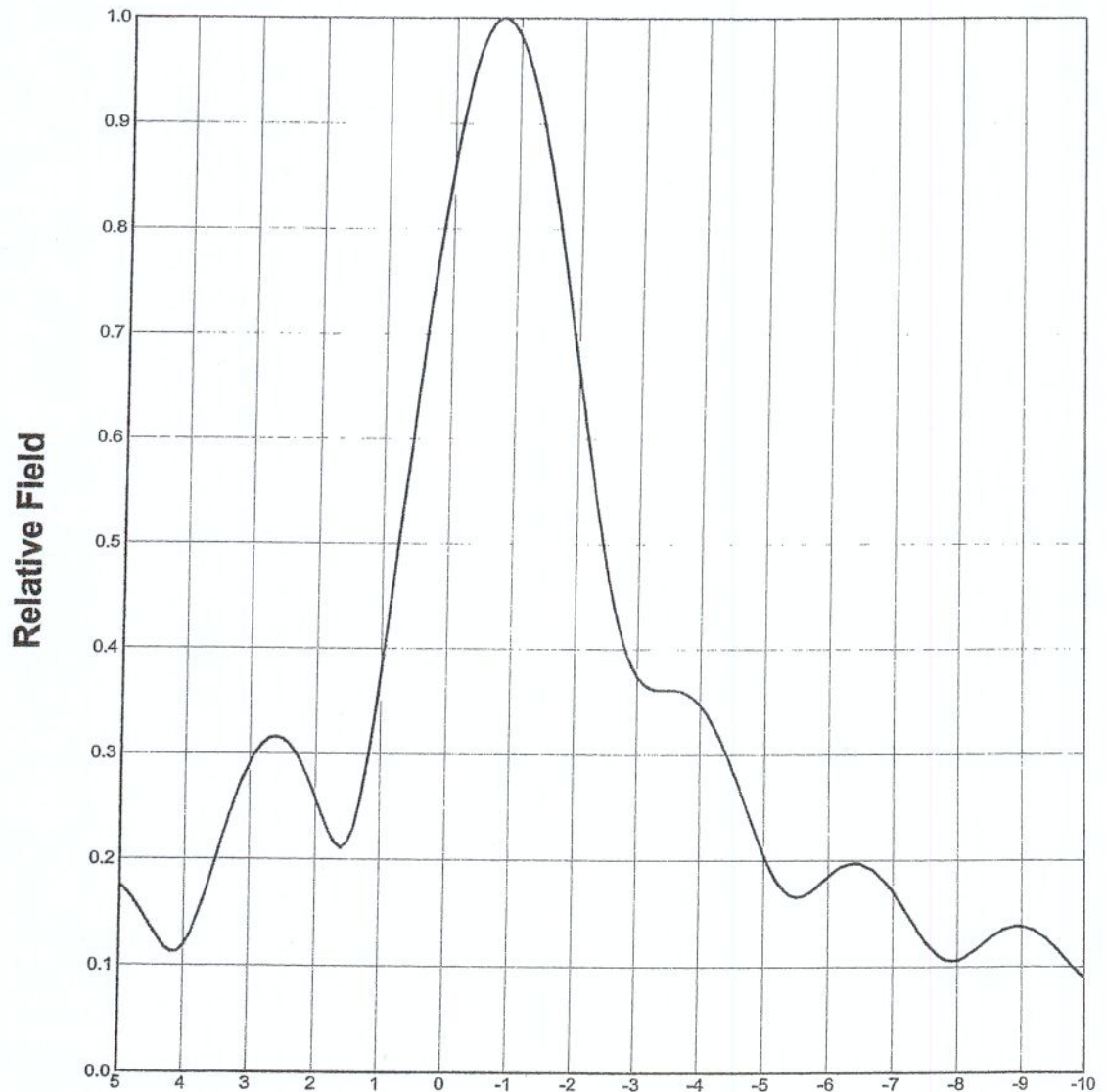
KEVIN T. FISHER

September 26, 2008

**ELEVATION PATTERN**

Type: ATW22H3H  
Directivity: Numeric dBd  
Main Lobe: 22.00 13.42  
Horizontal: 16.16 12.08

Channel: 42  
Location: Bloomington, Indiana  
Beam Tilt: -0.75  
Polarization: Horizontal



Preliminary, subject to final design and review.

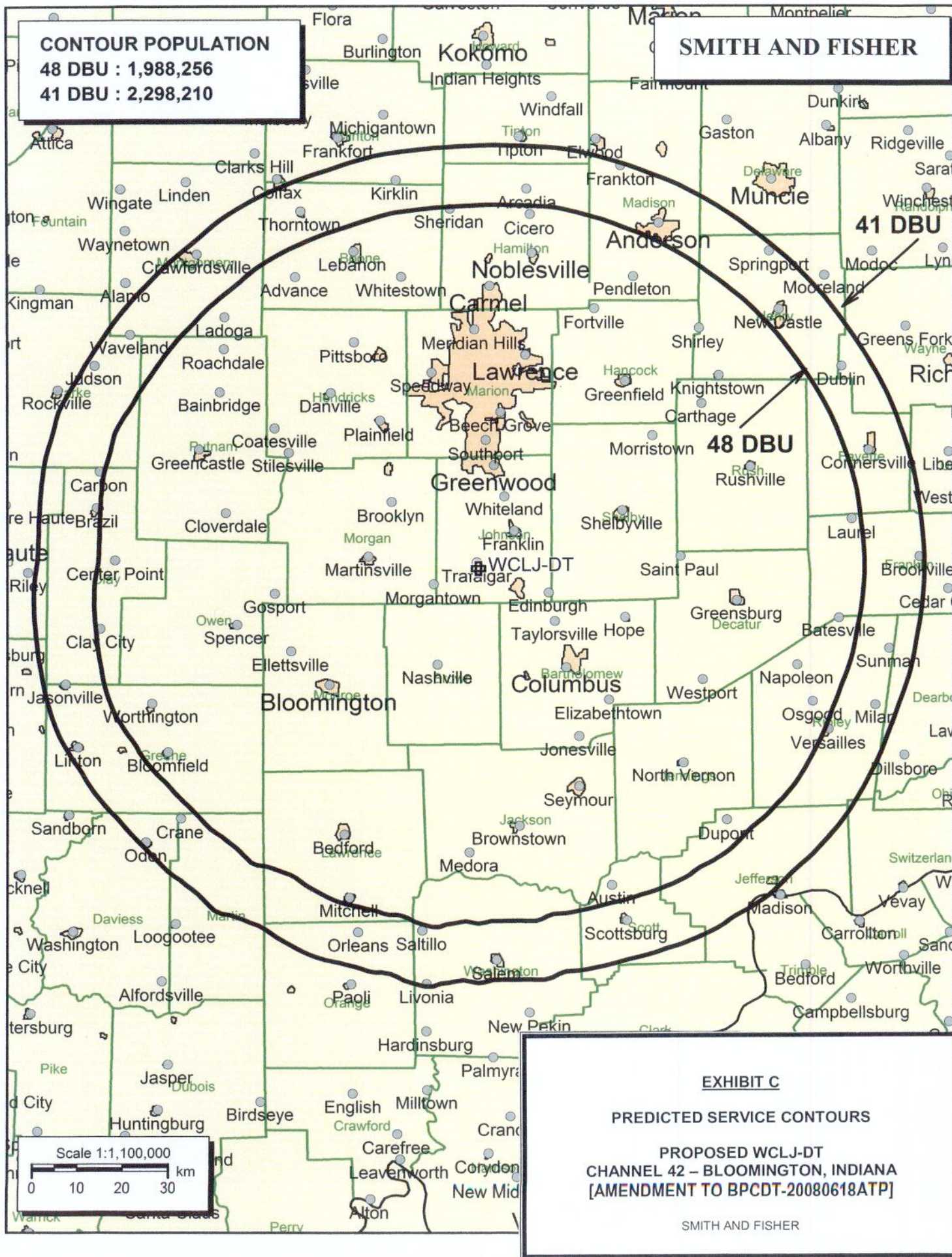
ELECTRONICS RESEARCH, INC. **ERI**

**EXHIBIT B****ANTENNA ELEVATION PATTERN**

PROPOSED WCLJ-DT  
CHANNEL 42 - BLOOMINGTON, INDIANA  
[AMENDMENT TO BPCDT-20080618ATP]

SMITH AND FISHER







INTERFERENCE STUDY  
PROPOSED WCLJ-DT  
CHANNEL 42 – BLOOMINGTON, INDIANA  
[AMENDMENT TO BPCDT-20080618ATP]

The instant application specifies an ERP of 850 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 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 SunDTV program, which utilizes methodology contained in the FCC's OET Bulletin No. 69 (Longley-Rice-based methodology). In conducting our studies, we employed a cell size of 1.0 kilometer and an increment spacing of 0.1 kilometer along each radial. In addition, we utilized the 2000 U. S. Census. A summary of the results of that analysis is provided 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.

## Summary Study

Percent allowed new interference: 0.500  
 Percent allowed new interference to Class A: 0.500  
 Census data selected 2000  
 Post Transition Data Base Selected ./data\_files/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-23-2008 Time: 14:35:07

Record Selected for Analysis

WCLJ-D.A USERRECORD-01 BLOOMINGTON IN US  
 Channel 42 ERP 850. kW HAAT 314. m RCAMSL 00557 m  
 Latitude 039-24-12 Longitude 0086-08-50  
 Status APP Zone 1 Border  
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.10 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	850.000	301.9	95.6
45.0	850.000	323.7	97.9
90.0	850.000	332.1	98.7
135.0	850.000	320.0	97.6
180.0	850.000	286.8	93.6
225.0	850.000	312.7	96.8
270.0	850.000	317.9	97.4
315.0	850.000	316.4	97.2

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WCLJ-D.A 42 BLOOMINGTON IN USERRECORD01

and station

42 WQRF-TV ROCKFORD IL  
 SHORT TO: WHMB-TV 40 INDIANAPOLIS IN BLCT 19990922AAW  
 039-53-40 0086-12-21  
 Req. separation => 24.1 <= 80.5 Actual separation 54.8 Short 25.7(  
 30.7) km

42 WCLJ-TV BLOOMINGTON IN BLCT 19870904KG  
 039-24-12 0086-08-50  
 Req. separation 217.3 Actual separation 0.0 Short 217.3 km

42 WCLJ-TV BLOOMINGTON IN DTVPLN DTVP1501  
 39 -24-12 86 -08-50  
 Req. separation 196.3 Actual separation 0.0 Short 196.3 km

42 WKMA-TV MADISON LANDMOBILE SPACING VIOLATIONS FOUND

42 WISN-TV SAUKRAPO  
 20071213AAS NONE

42 WISN-TV SAUKRAPO  
 DTVP1512

43 WKBT-TV ELIZABETH NJ  
 Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
 Distance to border = 376.6km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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# Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
42	WCLJ-D.A	BLOOMINGTON IN	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
41	WICD	CHAMPAIGN IL	168.1	CP MOD	BMPCDT	-
20041215AAN						
41	WICD	CHAMPAIGN IL	168.1	PLN	DTVPLN	-
DTVP1470						
41	WHIO-TV	DAYTON OH	166.8	LIC	BLCDT	-
20040614AEY						
41	WHIO-TV	DAYTON OH	166.8	PLN	DTVPLN	-
DTVP1480						
42	WQRF-TV	ROCKFORD IL	409.1	CP MOD	BMPCDT	-
20070207ABW						

42	WQRF-TV	ROCKFORD IL	409.0	PLN	DTVPLN	-
DTVP1499						
42	WICS	SPRINGFIELD IL	287.3	LIC	BLCDT	-
20050627AAI						
42	WICS	SPRINGFIELD IL	287.3	PLN	DTVPLN	-
DTVP1500						
42	WNDU-TV	SOUTH BEND IN	244.8	PLN	DTVPLN	-
DTVP1502						
42	WNDU-TV	SOUTH BEND IN	244.8	LIC	BLCDT	-
20060717AAG						
42	WKLE	LEXINGTON KY	231.7	LIC	BLEDT	-
20060926AJQ						
42	WKLE	LEXINGTON KY	231.7	PLN	DTVPLN	-
DTVP1503						
42	WKMA-TV	MADISONVILLE KY	273.4	LIC	BLEDT	-
20020304ALF						
42	WKMA-TV	MADISONVILLE KY	273.4	PLN	DTVPLN	-
DTVP1504						
42	WGGN-TV	SANDUSKY OH	364.4	CP MOD	BMPCDT	-
20071213AAS						
42	WGGN-TV	SANDUSKY OH	360.2	PLN	DTVPLN	-
DTVP1512						
43	WKZT-TV	ELIZABETHTOWN KY	193.2	LIC	BLEDT	-
20011221ABK						
43	WKZT-TV	ELIZABETHTOWN KY	193.2	PLN	DTVPLN	-
DTVP1537						

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Study of this proposal found the following interference problem(s):

NONE.



EXHIBIT E

## POWER DENSITY CALCULATION

PROPOSED WCLJ-DT  
CHANNEL 42 – BLOOMINGTON, INDIANA  
[AMENDMENT TO BPCDT-20080618ATP]

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 850 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  $0.0014 \text{ mw/cm}^2$  is calculated to occur 79 meters from the base of the tower. Since this is only 0.3 percent of the  $0.43 \text{ mw/cm}^2$  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.