

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of the licensee of Class A digital television station WLPD-CD, Channel 35 in Plano, Illinois, in support of its application for modification of Construction Permit LMS-0000034861, which authorizes operation on the station's post-repack channel, Channel 32. The purpose of this modification is to specify the presently licensed antenna rather than that authorized in the referenced construction permit. No change in antenna height, transmitter location, or effective radiated power is proposed herein.

Instead of mounting the authorized ERI directional antenna at the 78.8-meter level of the existing 91.5-meter tower, the present broadband Dielectric antenna will be left in place to be utilized on the repack channel. The proposed effective radiated power for the facility is 15.0 kW in horizontal plane. Exhibit B is a map upon which the proposed 51 dBu service contour is plotted.

Azimuth pattern data for the present horizontally-polarized Dielectric TUA-C3-4/12L antenna, with 0.25 degrees of electrical beam tilt, are attached as Exhibit C. This antenna pattern has been assigned FCC Antenna ID 111434, and is rotated 180 degrees. It is important to note that this antenna pattern is identical to that which was allotted to WLPD-LD for its repack assignment.

Exhibit D contains the summary results from a TVStudy interference study, which was conducted using a cell size and increment spacing of 1.0 kilometer. It concludes that the WLPD-CD facility specified herein meets the Commission's *de minimis* interference criteria to all

EXHIBIT A

co-channel and adjacent-channel post-repack full-power and Class A and LPTV/translator facilities.

A detailed power density calculation is provided in Exhibit D.

Since no change in the overall height or location of the existing WLPD-DT tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1029952 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.

A handwritten signature in blue ink, appearing to read "K. T. Fisher", with a stylized flourish at the end.

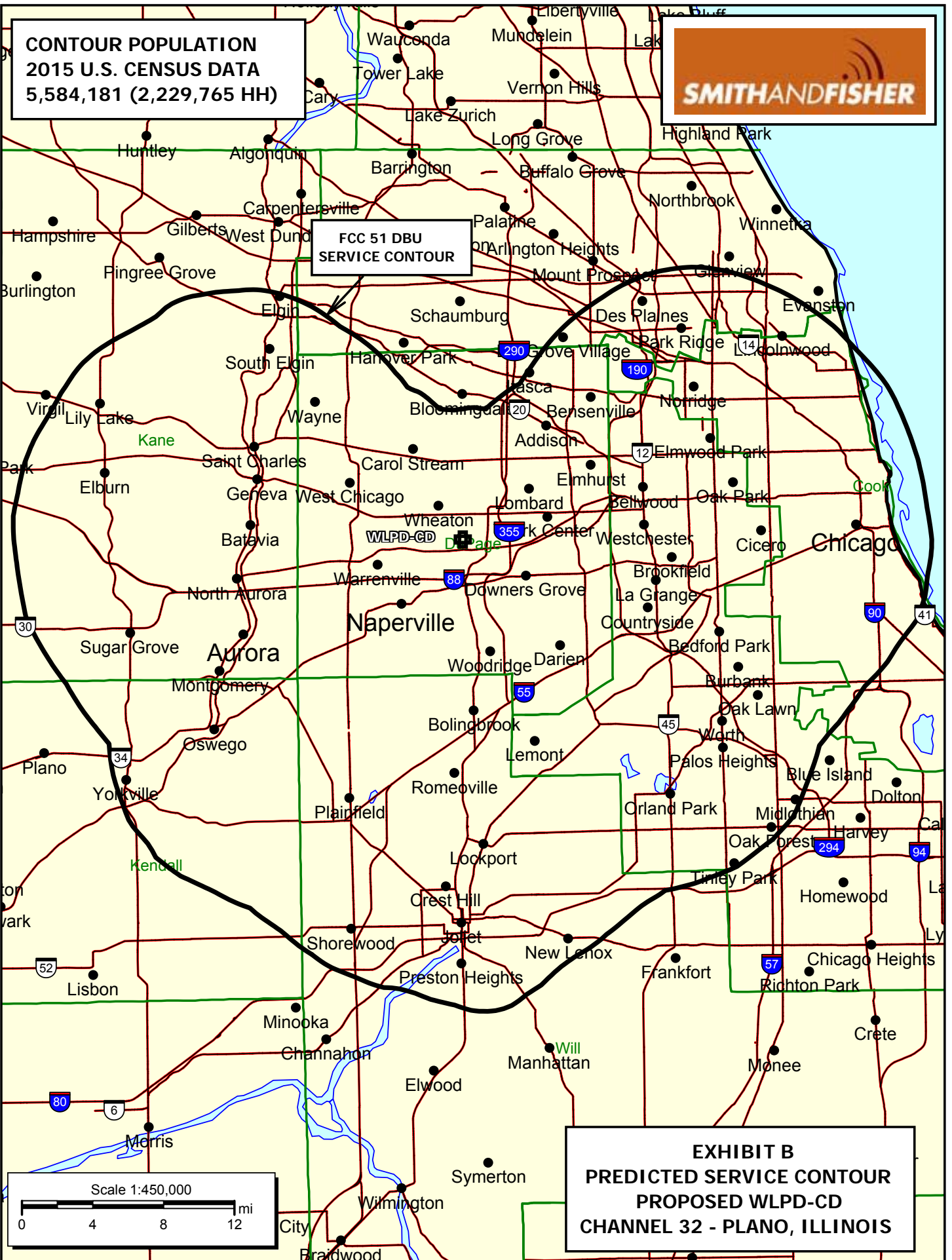
KEVIN T. FISHER

November 15, 2019

**CONTOUR POPULATION
2015 U.S. CENSUS DATA
5,584,181 (2,229,765 HH)**



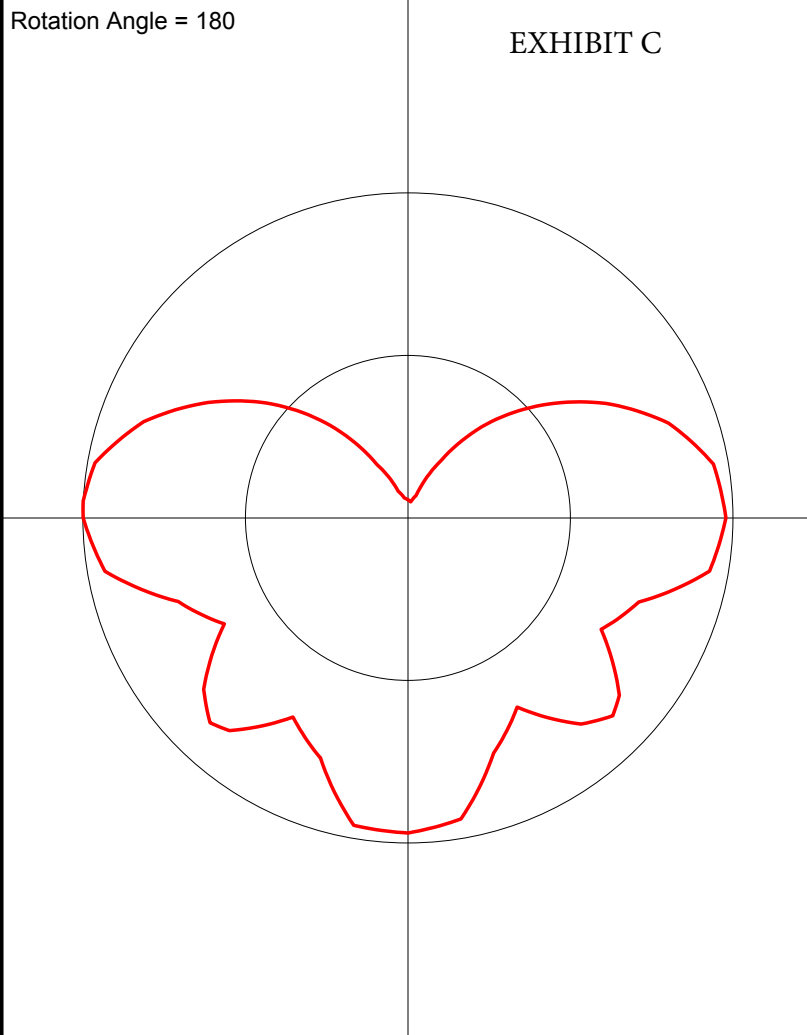
**FCC 51 DBU
SERVICE CONTOUR**



**EXHIBIT B
PREDICTED SERVICE CONTOUR
PROPOSED WLPD-CD
CHANNEL 32 - PLANO, ILLINOIS**

Antenna Pattern

Post-Rotation Antenna Pattern....



Azimuth (deg)	Relative Field
0.0	0.056
10.0	0.05
20.0	0.073
30.0	0.204
40.0	0.377
50.0	0.54
60.0	0.704
70.0	0.853
80.0	0.954
90.0	0.978
100.0	0.942
110.0	0.756
120.0	0.686
130.0	0.849
140.0	0.828
150.0	0.672
160.0	0.77
170.0	0.94
180.0	0.969
190.0	0.96
200.0	0.786
210.0	0.707
220.0	0.854
230.0	0.82
240.0	0.652
250.0	0.752
260.0	0.946
270.0	0.999
280.0	0.977
290.0	0.865
300.0	0.71
310.0	0.545
320.0	0.371
330.0	0.189
340.0	0.087
350.0	0.062

TVSTUDY INTERFERENCE ANALYSIS RESULTS
 PROPOSED WLPD-CD
 CHANNEL 32 – PLANO, ILLINOIS

Study created: 2019.10.24 12:33:34

Study build station data: LMS TV 2019-10-20

Proposal: WLPD-CD D32 DC LIC PLANO, IL

File number: BLANK0000034510

Facility ID: 189058

Station data: User record

Record ID: 674

Country: U.S.

Build options:

Protect LPTV records from Class A

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMKB-LP	N25z	TX	LIC	Rochelle, IL	BLTTL20070813AFM	94.5 km
Yes	W25DW-D	D31	LD	CP	ARBURY HILLS, IL	BLANK0000068481	37.1
Yes	WESV-LD	D31	LD	CP	CHICAGO, IL	BLANK0000053952	37.1
No	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	199.9
No	WQAD-TV	D31	DT	BL	MOLINE, IL	DTVBL73319	199.9
No	W31DT-D	D31	LD	CP	STERLING - DIXON, IL	BDCCDTL20110726AJF	126.4
No	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	158.9
No	WNIT	D31	DT	BL	SOUTH BEND, IN	DTVBL41671	158.9
No	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	213.4
No	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000062874	140.0
No	WITI	D31	DT	BL	MILWAUKEE, WI	DTVBL73107	140.0
No	KFKZ-LD	D32	LD	LIC	CEDAR FALLS, IA	BLANK0000069608	317.6
No	KQCT-LP	D32-	LD	CP	DAVENPORT, IA	BLANK0000068394	199.9
Yes	WICD	D32	DT	LIC	CHAMPAIGN, IL	BLANK0000059351	197.1
Yes	WSPY-LD	D32	LD	LIC	LA SALLE, IL	BLANK0000016586	45.4
No	W32EF-D	D32	LD	LIC	PEORIA, IL	BLANK0000010565	189.0
No	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	342.7
No	WANE-TV	D32	DT	CP	FORT WAYNE, IN	BLANK0000034806	255.3
No	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	255.3
No	WDRB	D32	DT	CP	LOUISVILLE, KY	BLANK0000060325	431.6
No	WDRB	D32	DT	BL	LOUISVILLE, KY	DTVBL28476	431.6
No	WFQX-TV	D32	DT	LIC	CADILLAC, MI	BLCDDT20091217ACU	338.8

No	WFQX-TV	D32	DT APP	CADILLAC, MI	BLANK0000035809	338.8
No	WDIV-TV	D32	DT CP	DETROIT, MI	BLANK0000027872	407.9
No	WDIV-TV	D32	DT BL	DETROIT, MI	DTVBL53114	407.9
No	WXMI	D32	LD LIC	GRAND RAPIDS, MI	BLANK0000072959	206.6
No	WBWM-LP	N32z	TX LIC	MOUNT PLEASANT, MI	BLTTL20001220ABG	331.9
No	KUMO-LD	D32	LD CP	ST LOUIS, MO	BLANK0000030456	409.8
No	W32DS-D	D32	LD LIC	MAPLEWOOD, OH	BLDTT20110104ABK	330.4
No	W32DW-D	D32	LD CP	LA CROSSE, WI	BNPDTL20090825CAP	356.1
Yes	WTMJ-TV	D32	DT CP	MILWAUKEE, WI	BLANK0000034843	140.0
Yes	WTMJ-TV	D32	DT BL	MILWAUKEE, WI	DTVBL74098	140.0
No	WMAQ-TV	D33	DT CP	CHICAGO, IL	BLANK0000080396	37.0
Yes	WCHU-LD	D33	LD LIC	CHICAGO, IL	BLDTL20110928ALC	38.4
No	WMAQ-TV	D33	DT BL	CHICAGO, IL	DTVBL47905	37.0
No	WAOE	D33	DT BL	PEORIA, IL	DTVBL52280	182.0
No	WIDN-LD	D33	LD CP	ROCKFORD, IL	BLANK0000051604	93.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Mask: Full Service
Latitude: 41 50 18.30 N (NAD83)
Longitude: 88 4 48.90 W
Height AMSL: 307.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE-TUA-C3-4/12L (ID 111434) 180.0 deg
Elev Pattn: Generic
Elec Tilt: 0.25

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.047 kW	72.0 m	12.3 km
45.0	3.15	94.2	34.8
90.0	14.3	98.1	42.9
135.0	11.3	81.3	39.5
180.0	14.1	98.8	42.8
225.0	11.3	88.8	40.5
270.0	15.0	83.4	41.1
315.0	3.15	76.2	32.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 87 m

Distance to Canadian border: 408.2 km

Distance to Mexican border: 1795.8 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 63.3 degrees Distance: 194.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 268.3 degrees Distance: 1448.0 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

No IX check failures found.

POWER DENSITY CALCULATION

PROPOSED WLPD-CD
CHANNEL 32 – PLANO, ILLINOIS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Plano facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15.0 kW, an antenna radiation center 78.8 meters above ground, and assuming a vertical relative field value of 40% at the steeper elevation angles for the licensed Dielectric TUA-C3-4/12L antenna, a maximum power density value two meters above ground of 0.014 mW/cm^2 is calculated to occur near the base of the tower. Since this is only 3.5 percent of the 0.39 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 32 (578-584 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing 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 non-ionizing radiation.