

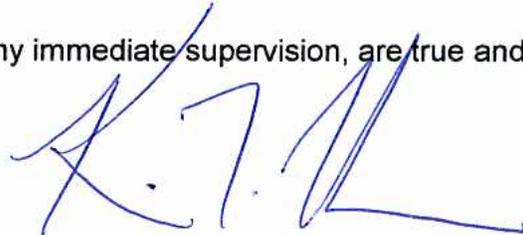
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of NATIONAL MINORITY T.V., INC., licensee of television translator K50FI, Channel 50 in Opelousas, Louisiana, in support of this request for special temporary authority to specify operation on Channel 39 from the licensed K50FI site. This proposal is being submitted in response to the Commission's assignment of Channel 50 to KLWB in New Iberia, Louisiana, and located just 34 kilometers from K50FI. KLWB has just become operational and has requested that K50FI cease operation on its present channel. The instant proposal will get K50FI back on air while its Channel 39 digital displacement application is being processed by the Commission.

It is proposed to mount a standard ERI omnidirectional antenna at the authorized height on the side of the existing 152-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 74 dBu contour encompasses a significant portion of that which obtains from the licensed K50FI facility. Operating parameters for the proposed facility are tabulated in Exhibit C. A contour overlap analysis and interference study are provided in Exhibit D, and a power density calculation follows as Exhibit E.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1022456 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.

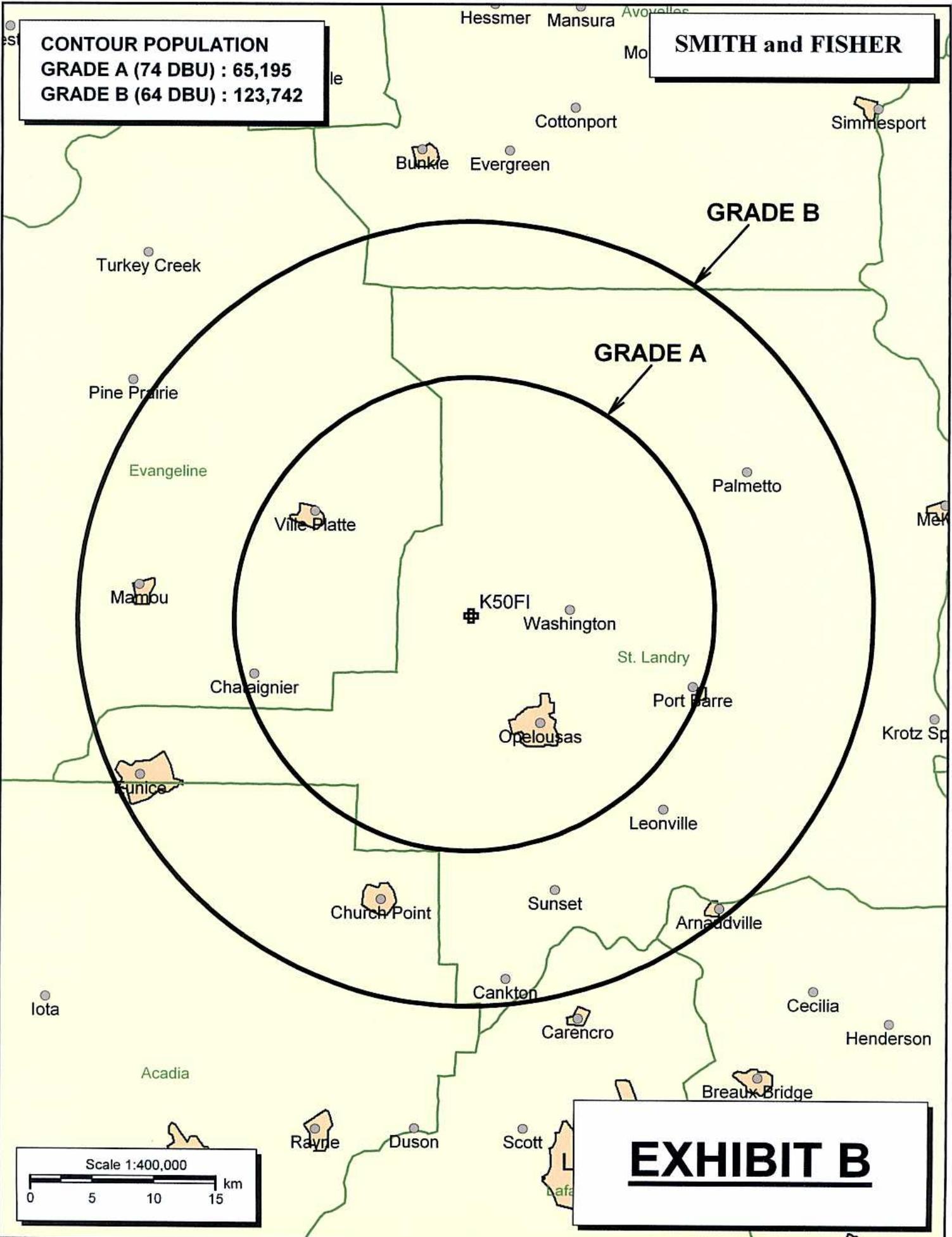
A handwritten signature in blue ink, appearing to read 'K.T. Fisher', with a long horizontal stroke extending to the right.

KEVIN T. FISHER

March 15, 2006

**CONTOUR POPULATION**  
**GRADE A (74 DBU) : 65,195**  
**GRADE B (64 DBU) : 123,742**

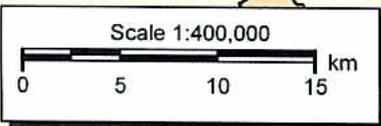
**SMITH and FISHER**



**GRADE B**

**GRADE A**

**EXHIBIT B**



## PROPOSED OPERATING PARAMETERS

PROPOSED K50FI STA  
CHANNEL 39 – OPELOUSAS, LOUISIANA

Transmitter Power Output:	1.0 kw
Transmission Line Efficiency:	56.5%
Antenna Power Gain – Toward Horizon:	28.2
Antenna Power Gain – Main Lobe:	28.2
Effective Radiated Power – Toward Horizon:	15.9 kw
Effective Radiated Power – Main Lobe:	15.9 kw
Transmitter Make and Model:	Type-accepted
Rated Output	1.0 kw
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	460 feet
Antenna Make and Model:	ERI ALP16L2-HSOC
Orientation	Omnidirectional
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	133 meters
Radiation Center Above Mean Sea Level:	152 meters

CONTOUR OVERLAP AND  
LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED K50FI STA  
CHANNEL 39 – OPELOUSAS, LOUISIANA

We conducted a computer analysis of the interference situation for the proposed facility, the results of which are shown in Exhibit D-2. The study is based on contour protection requirements of Sections 74.705, 74.706, 74.708, 74.709 and 74.710 of the FCC's Rules with respect to analog and digital full-power, analog and digital low power television stations, and Land Mobile allotments. It concludes that the facility proposed herein meets these requirements except to three stations: KLPB-TV, Channel 24 in Lafayette, Louisiana; KWBJ-LP, Channel 39 in Morgan City, Louisiana; and, WLOX-DT, Channel 39 in Biloxi, Mississippi.

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to these facilities of concern. The software utilizes a 1-square kilometer cell size (except where noted), calculates signal strength at 0.1 kilometer increments along each radial studied, and employs the 1990 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than NMT's proposed K50FI) already is predicted to exist (also known as "masking"). The results of these studies are provided in Exhibit D-3. They conclude that the facility proposed herein causes no significant new interference to any of the potentially affected stations.

EXHIBIT D-1

As a result, waivers of Section 74.705 of the Commission's Rules with respect to interference KLPB-TV, Section 74.706 with regard to WLOX-DT, and Section 74.707 with respect to KWBJ-LP are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED K50FI  
CH. 39 - OPELOUSAS, LA

REFERENCE  
30 36 42 N  
92 08 24 W

LPTV Pwr = 15 kW, HAMS L COR= 152 M

DISPLAY DATES  
DATA 03-04-06  
SEARCH 03-14-06

..... Channel 39Z, 620 MHz .....

Call	Channel	Location	Dist	Azi	FCC	Margin
KLPBTV LI	24Z	Lafayette	LA 66.73	199.4	> 104.75	-38.02
KWBJ-L LI	39Z	Morgan City	LA 133.65	137.5	> 164.50	-30.85
WLOX-D LI	39	Biloxi	MS 292.45	86.8	> 304.58	-12.13
WBXH-C AP	39-	Baton Rouge	LA 93.85	101.3	> 084.49	9.36
WBXH-C AP	39-	Baton Rouge	LA 93.85	101.3	> 076.37	17.48
KLPATV LI	25+	Alexandria	LA 112.67	340.0	> 092.67	20.00
K39HV CP	39-	De Ridder	LA 114.07	285.4	> 093.93	20.14
KLPATV CP	25+	Alexandria	LA 112.68	340.0	> 090.95	21.73
KAJN-L LI	40Z	Lafayette	LA 63.94	167.6	> 041.14	22.80
KMCTTV LI	39+	West Monroe	LA 210.02	359.8	> 171.77	38.25
K38EG LI	38Z	Alexandria	LA 78.19	338.7	> 016.57	61.62
K23DZ AP	38-	Baton Rouge	LA 105.40	92.9	> 032.10	73.30
K38EG AP	38N	Lake Charles	LA 112.43	251.1	> 038.64	73.79
KBTVD-D CPM	40	Port Arthur	TX 184.50	254.5	> 110.51	73.99

INTERFERENCE SUMMARY

PROPOSED K50FI STA  
CHANNEL 39 – OPELOUSAS, LOUISIANA

<u>Call Sign</u>	<u>Status</u>	<u>City, State</u>	<u>Ch.</u>	<u>Longley-Rice Service Population</u>	<u>Unmasked Interference From Proposed Facility</u>	<u>%</u>
KLPB-TV BLET-19810429KG	Lic.	Lafayette, LA	24	536,205	583	0.1
KWBJ-LP BLTTL-19891205IJ	Lic.	Morgan City, LA	39	30,753	0	0
WLOX-DT BLCDDT-20030205ACM	Lic.	Biloxi, MS	39	890,015	0	0

POWER DENSITY CALCULATION  
PROPOSED K50FI STA  
CHANNEL 39 – OPELOUSAS, LOUISIANA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Opelousas facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15.9 kw, an antenna radiation center 133 meters above ground, and the vertical pattern of the ERI antenna, maximum power density two meters above ground of  $0.00081 \text{ mw/cm}^2$  is calculated to occur 43 meters from the base of the tower. Since this is only 0.2 percent of the  $0.41 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 39 (620-626 MHz), this proposal may be excluded from consideration with respect to public 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.