

EXHIBIT A

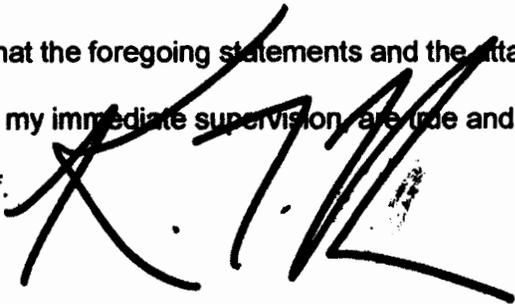
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FRAZIER MEMORIAL UNITED METHODIST CHURCH, licensee of Low Power Television Station W61DH, Channel 61 in Montgomery, Alabama, in support of this Application for Construction Permit to specify operation on Channel 34 from the licensed W61DH site. This proposal is being submitted in response to the Commission's reclamation of Channel 61 spectrum for future auction, thereby placing this LPTV station in a displacement situation.

It is proposed to mount a standard Andrew omnidirectional antenna at the authorized height on the side of an existing 356-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 W61DH 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 1042484 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

February 25, 2003

CONTOUR OVERLAP AND  
LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED LOW POWER TELEVISION STATION W61DH  
CHANNEL 34 – MONTGOMERY, ALABAMA

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, and 74.707 of the FCC's Rules with respect to analog full-power, digital full-power, and low power television stations, respectively. It concludes that the facility proposed herein meets these requirements except to four stations: WCFT-DT, Channel 34 in Tuscaloosa, Alabama; WHBR-DT, Channel 34 in Pensacola, Florida; WCOV-TV, Channel 20 in Montgomery, Alabama; and, WDFX-TV, Channel 34 in Ozark, Alabama.

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 2-square kilometer cell size, calculates signal strength at 1.0 kilometer increments along each radial studied, and employs the 2000 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 proposed W61DH) 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 interference to any of the referenced full-power facilities.

EXHIBIT D-1

As a result, waivers of Section 74.705 of the Commission's Rules with respect to interference to WCOV-TV and WDFX-TV, and Section 74.706 with regard to WCFT-DT and WHBR-DT, are requested and believed to be justified based on the aforementioned Longley-Rice studies.

It is important to note that WCFT-DT was originally assigned to operate on Channel 34 in Tuscaloosa, Alabama. However, as a result of BPRM-20020703ABJ, and its subsequent grant by the Commission recently, WCFT-DT will operate on Channel 5.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED W61DH  
CH. 34 - MONTGOMERY AL

REFERENCE  
32 24 13 N  
86 11 47 W

LPTV Pwr = 29.9 kW, HAMS L COR= 207 M

DISPLAY DATES  
DATA 02-22-03  
SEARCH 07-25-03

..... Channel 34+, 590 MHz .....

Call	Channel	Location	Dist	Azi	FCC	Margin
WCFT-D CP	34	Tuscaloosa	AL 166.04	316.4	> 348.49	-182.45
WHBR-D CP	34	Pensacola	FL 240.46	215.2	> 336.89	-96.43
WHBR-D ST	34	Pensacola	FL 240.46	215.2	> 317.62	-77.16
WCOVTV CP	20Z	Montgomery	AL 47.70	176.1	> 114.05	-66.35
WCOVTV LI	20Z	Montgomery	AL 11.48	228.4	> 072.25	-60.77
WDFXTV CP	34-	Ozark	AL 143.57	157.4	> 201.55	-57.98
WDFXTV LI	34-	Ozark	AL 143.57	157.4	> 194.02	-50.45
NEW*	AP 34+	Magee	MS 316.99	265.2	> 309.66	7.33
WLTZ-D*CPM	35	Columbus	GA 123.43	86.8	> 115.74	7.69
W34BI LI	34Z	Birmingham	AL 132.25	332.7	> 112.41	19.84
WANN-L LI	34+	Rome	GA 222.21	23.5	> 196.69	25.52
WLTZ ALD	35	COLUMBUS	GA 123.43	86.8	> 093.24	30.19
NEW AP	34Z	Weston	GA 153.28	105.7	> 114.27	39.01
WCFTTV LI	33Z	Tuscaloosa	AL 166.04	316.4	> 126.73	39.31
WDFX-D CP	33	Ozark	AL 143.57	157.4	> 091.98	51.59
WIIQ LI	41Z	Demopolis	AL 157.30	269.0	> 100.00	57.30
WUVG LI	34Z	Athens	GA 289.69	48.0	> 230.75	58.94
WLTZ-D ST	35	Columbus	GA 123.43	86.8	> 060.90	62.53
AP440 AP	34+	Magee	MS 351.64	260.4	> 288.57	63.07
NEW AP	19-	Columbus	GA 111.95	84.7	> 042.34	69.61
WDFXTV ALD	33	OZARK	AL 143.57	157.4	> 073.79	69.78
WOTM-L LI	19+	Montevallo	AL 102.57	324.5	> 031.84	70.73
NEW AP	33-	Columbus	GA 111.96	84.7	> 037.11	74.85

\* Actual radials antenna height and directional patterns used (if any)

## INTERFERENCE SUMMARY

PROPOSED LOW POWER TELEVISION STATION W61DH  
CHANNEL 34 – MONTGOMERY, ALABAMA

<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>
WCFT-DT BPCDT-19991026ACL	CP	Tuscaloosa, AL	34	1,670,539	5,194	0.3
WHBR-DT BPCDT-19991028AFO	CP	Pensacola, FL	34	1,206,155	0	0
WHBR-DT BDSTA-20021018ABK	STA	Pensacola, FL	34	1,003,144	0	0
WCOV-TV BPCT-19960726KH	CP	Montgomery, AL	20	720,985	0	0
WCOV-TV BLCT-2256	Lic.	Montgomery, AL	20	416,247	0	0
WDFX-TV BPCT-19960726KG	CP	Ozark, AL	34	316,226	0	0
WDFX-TV BLCT-19910228KE	Lic.	Ozark, AL	34	246,617	3	<0.1

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED LOW POWER TELEVISION STATION W61DH  
CHANNEL 34 – MONTGOMERY, ALABAMA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Montgomery facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 29.9 kw, an effective antenna height of 152 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of  $0.00075 \text{ mw/cm}^2$  is calculated to occur 35 meters from the base of the tower. Since this is only 0.2 percent of the  $0.39 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 34 (590-596 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.