

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of ARKANSAS 49, INC., licensee of Class-A eligible K12MY, Channel 12 in Batesville, Arkansas, and permittee of a proposal to operate this station on Channel 54 in Searcy, Arkansas (BPTVL-20000518ABY), in support of this Application for Construction Permit to specify operation from a new site.

It is proposed to mount a standard SWR omnidirectional antenna at the 90-meter level of an existing 98-meter communications tower. Exhibit B is a map upon which the predicted service contours of the authorized and proposed Channel 54 facilities are plotted. It is important to note that the newly proposed 74 dBu contour encompasses a significant portion of that which obtains from the authorized Channel 54 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 1038240 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

November 3, 2003

Pleasant Plains

PROPOSED 74 DBU

AUTHORIZED 74 DBU

Bradford

K12MY (New)
Russell

Bald Knob

K12MY (CP SITE)
Judsonia

Searcy
White

Kensett

Higginson

West Point

Griffithville

Scale 1:200,000

0 2 4 6 km

EXHIBIT B

EXHIBIT C

PROPOSED OPERATING PARAMETERS

PROPOSED K12MY
CHANNEL 54 – SEARCY, ARKANSAS
[MODIFICATION OF BPTVL-20000518ABY]

Transmitter Power Output:	0.05 kw
Transmission Line Efficiency:	71.5%
Antenna Power Gain – Toward Horizon:	28.9
Antenna Power Gain – Main Lobe:	28.9
Effective Radiated Power – Toward Horizon:	1.0 kw
Effective Radiated Power – Main Lobe:	1.0 kw
Transmitter Make and Model:	Type-accepted
Transmission Line Make and Model:	Andrew HJ8-50B
Size and Type:	3" air heliax
Length:	320 feet
Antenna Make and Model:	SWR SWLP160I
Orientation	Omnidirectional
Beam Tilt	0.9 degrees
Effective Height Above Ground:	90 meters
Effective Height Above Mean Sea Level:	305 meters

EXHIBIT D-1

CONTOUR OVERLAP AND
LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED K12MY
CHANNEL 54 – SEARCY, ARKANSAS
[MODIFICATION OF BPTVL-20000518ABY]

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 two stations: WABG-DT, Channel 54 in Greenwood, Mississippi; and, K54ER, Channel 54 in Jonesboro, Arkansas.

We then conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to the facilities of concern. The software utilizes a 2-square kilometer cell size (except where noted), calculates signal strength at 1.0 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 proposed K12MY) 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 either of the potentially affected stations.

EXHIBIT D-1

As a result, waivers of Section 74.706 of the Commission's Rules with respect to interference to WABG-DT, and Section 74.707 with regard to K54ER are requested and believed to be justified based on the aforementioned Longley-Rice studies.

SMITH AND FISHER

EXHIBIT D-2

PROPOSED K12MY
CH. 54 - SEARCY AR

REFERENCE

35 22 53 N
91 31 30 W

LPTV Pwr = 1 kW, HAMS L COR= 304 M

DISPLAY DATES

DATA 11-01-03

SEARCH 11-03-03

..... Channel 54+, 710 MHz

Call	Channel	Location		Dist	Azi	FCC	Margin
WABG-D*CP	54	Greenwood	MS	240.48	157.7	> 270.37	-29.89
K54ER* LI	54N	Jonesboro	AR	95.57	53.4	> 120.27	-20.33
K55JE* CP	55Z	Newport	AR	40.44	38.0	> 014.20	26.24
K53FM* LI	53Z	Batesville	AR	59.61	341.6	> 006.38	53.88
WHBQ-D CP	53	Memphis	TN	154.53	98.1	> 092.73	61.80
K55GE LI	55-	Little Rock	AR	98.44	224.2	> 027.21	71.23

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

INTERFERENCE SUMMARY

PROPOSED K12MY
CHANNEL 54 – SEARCY, ARKANSAS
[MODIFICATION OF BPTVL-20000518ABY]

<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>
WABG-DT BPCDT-19991013ABI	CP	Greenwood, MS	54	571,674	0	0
K54ER BLTT-19981116JE	Lic.	Jonesboro, AR	54	48,007	51	0.1