

# KOKS

P.O. Box 967 - Poplar Bluff, Mo. 63901

314-686-5080

592-443-B MRS. PAT SMITTLE  
RT. 6, BOX 167  
POPLAR BLUFF, MO. 63901

2/19/91

DEAR PAT,

YOU CALLED ON 2/11/91 AND SAID THAT THE 075 FM TRAP DID NOT WORK FOR YOU.

WE ARE RECOMMENDING A FILTER THAT HAS BEEN HELPFUL TO MANY. THIS FILTER CAN BE PURCHASED AT RADIO SHACK. IT IS A 75 OHM TRAP.

THERE IS ALSO A FILTER CALLED FAS TRAP KS 89.5. THIS FILTER CAN BE PURCHASED AT CHARLIE'S T.V. IN POPLAR BLUFF. THE PHONE NUMBER IS 785-1107.

IF YOU NEED MORE INFORMATION GIVE US A CALL BETWEEN THE HOURS OF 8 AM. AND 4 PM. AT 686-5080.

SINCERLY,

*Don Stewart*

DON STEWART  
GENERAL MANAGER

mmb Ex. 28

JOSEPH E. DUNNE III  
COLBY M. MAY

\*ALSO ADMITTED IN VIRGINIA

MAY & DUNNE  
CHARTERED  
ATTORNEYS AT LAW  
1000 THOMAS JEFFERSON STREET, N.W.  
SUITE 520  
WASHINGTON, D.C. 20007  
(202) 298-6345

RECEIVED

MAR 25 5 12 PM '92

FBI REC-111

RICHARD G. GAY  
OF COUNSEL

TELECOPIER NO  
(202) 298-6375

March 25, 1992

HAND DELIVER

Donna R. Searcy  
Secretary  
Federal Communications Commission  
Washington, D.C. 20554

ATTN: FM Branch Audio Services Division,  
Mass Media Bureau

RE: 8920-PKP/RDG: BMLD-911009KD, Filed by  
Calvary Educational Broadcasting Network,  
KOKS(FM), Poplar Bluff, Missouri

Dear Ms. Searcy:

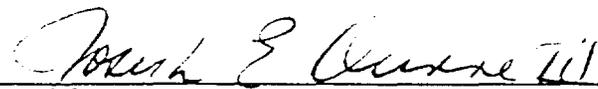
Transmitted herewith in triplicate on behalf of Calvary Educational Broadcasting Network (Calvary) is its response to the above-referenced Commission letter dated March 12, 1992. Calvary's response includes two parts: a completed section II-B of FCC Form 302; and a response from Calvary addressing questions concerning conflicting meter readings.

Should any questions arise concerning these matters, they should be referred to the undersigned.

Respectfully submitted,

MAY & DUNNE, CHARTERED

By:

  
Joseph E. Dunne III  
Attorney for Calvary  
Educational Broadcasting Network

mmb  
Ex. 28

JED:jrfA64

cc: Phillip Prince (FCC, Rm. 332, Hand Deliver)  
Robert D. Greenberg (FCC, Rm. 332, Hand Deliver)  
Ms. Nina Stewart

Applicant  
**CAIVARY**

**CAIVARY EDUCATIONAL BROADCASTING NETWORK**

Facilities authorized in construction permit

Call Sign <b>S</b>	Frequency	Antenna height above average terrain
File No. of Construction Permit <i>(if applicable)</i> <b>BPED-870302MS</b>	Effective radiated power in kilowatts Horizontal <u>100</u> Horizontal maximum * Vertical <u>100</u> Vertical maximum * *Beam tilt antennas only	Horizontal <u>129</u> meters Vertical <u>129</u> meters

2. Station location

State <b>Missouri</b>	City or Town <b>Poplar Bluff</b>
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3. Transmitter location

State <b>MO.</b>	County <b>Butler</b>	City or Town <b>Poplar Bluff</b>	Street address <i>(or other identification)</i> <b>4.6 KM SE of Jct. of Hwy 67 and U.S. 60</b>
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4. Main Studio location

State <b>MO.</b>	County <b>Butler</b>	City or Town <b>Poplar Bluff</b>	Number and Street <b>2773 Barron Road</b>
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5. Remote control point location *(only if authorized)*

State	City or Town	Street address <i>(or other identification)</i>
	<b>DNA</b>	

6. Operating constants:

C. plate current in last radio stage, amperes	Applied D.C. voltage in last radio stage, in volts	Efficiency Factor F of transmitter at operating power in percent	Transmitter power output, in kW by indirect method	RF transmission line meter reading
<b>3.61</b>	<b>11.9 KV</b>	<b>80%</b>	<b>34.4 KW</b>	<b>100%</b>

7. Antenna

Antenna make and type No. <b>SHIVELY 6810-7D-SS-DA</b>	Number of Sections <b>7</b>	Power gain <b>3.18</b>
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Height of antenna radiation center above ground and mean sea level:	HORIZONTAL		VERTICAL	
	<u>116</u> meters (AGL)	<u>116</u> meters (AGL)	<u>259</u> meters (AMSL)	<u>259</u> meters (AMSL)

Geographical Coordinates of antenna *(to nearest second)*

North latitude	<b>36 ° 48 ' 40 "</b>	West longitude	<b>90 ° 27 ' 50 "</b>
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Description of antenna supporting structure

<b>15 meter antenna support mast atop a guyed 107 meter tower</b>	Elevation in meters of the top of supporting structure above ground (including antenna and other appurtenances and lighting, if any) <b>123 meters</b>
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8. Transmission line

Make <b>Cablewave</b>	Type <b>HCC312-50J</b>	Description <b>3½ inch Wellflex</b>
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Size: (nominal inside transverse dimension) in centimeters <b>8.9</b>	Length in meters <b>116</b>	Rated efficiency in percent for this length <b>91.4</b>
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9. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit? Attach exhibits to show compliance with conditions on construction permit.

FEDERAL COMMUNICATIONS COMMISSION

Docket No. 92-122 Exhibit No. MMB 28

Presented by MMB Identified 11/12/92

Disposition: Received 11/12/92  
Rejected \_\_\_\_\_

Reporter B. Lord

Date \_\_\_\_\_

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

N Please Print or Type DONALD W. STEWART	Signature (check appropriate box below) <i>Donald W. Stewart</i>
Address (include ZIP Code) P.O. BOX 967 POPLAR BLUFF, MO. 63901	Date 3-18-92 Telephone No. (include Area Code) 314-686-5080

- Technical Director
- Chief Operator
- Other (specify) PRESIDENT
- Registered Professional Engineer
- Technical Consultant

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# KOKS

P.O. Box 967 - Poplar Bluff, Mo. 63901

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314-686-5080

Donna R. Searcy  
Secretary  
Federal Communications Commission  
Washington, D.C. 20554

Dear Ms. Searcy:

Please be advised that the repairs referred to in Mr. Lampe's  
attached letter were done on February 28, 1992.

The station is now operating at effective radiated power of 100KW.

Respectfully Submitted,

*Nina Stewart*

Nina Stewart,  
Secretary & Treasurer  
Calvary Educational Broadcasting Network

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YOUR CHRISTIAN RADIO STATION!

**CHARLEY'S TV REPAIR**

Route 11, Box 357  
Poplar Bluff, MO 63901

I

March 2, 1992

TO: Radio Station KOKS, Poplar Bluff, Missouri

RE: Faulty current reading in plate circuit of final tube.

CR. 1 was found to be leaky causing the metering of the circuit to read low. The faulty component was located and replaced. Prior to the repair the reading was at 2.35. After repairs the reading was 3.1 at 95% of power which is correct using the efficiency factor and gain factor of this antenna. Please note I have enclosed a copy of the Harris manual in which there is documentation that this problem could occur. To my knowledge the transmitter has never run in over power condition. The automatic monitoring system of the Harris FM 35K would not allow this to occur.

If there are any more questions concerning this matter feel free to call me.

  
Charles Lampe

Enc. 1

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reading unstable. The voltage appearing between terminals 2 and 1 on the board is connected to the Controller through the Transmitter Interface/Backup Controller board on the Controller assembly.

R-10. The PA Grid voltage is connected to terminal 7 of the board. Resistors R7, R8, R9 and R10 are a voltage divider which derives a sample (at terminal 6) which is about 2/3rds of 1% of the voltage at terminal 7. The sample, then, is about 1 volt for every 151 volts on the Grid. This voltage is connected to the Controller through the Transmitter Interface/Backup Controller board on the Controller assembly.

R-11. The negative terminal of the Plate Supply (in the High Voltage Power Supply) is connected to terminal 4 of the PA Metering Board and completes its path to ground through the parallel resistor network consisting of R1, R2, R3, R4, and R5. The voltage developed across these resistors (with a combined value of one Ohm) is 1 Volt for each 1 Amp of Plate current.

R-12. Under normal conditions, the voltage across the network is well below the value required to cause CRL to conduct. Since the metering circuit on the Transmitter Interface/Backup Controller board is very high impedance, there is no significant voltage drop across R6 and the sample applied to terminals 3 and 5 is the same as the voltage developed across terminals 4 and 8. However, on the occasion of a cavity or tube arc, the Plate current rises sharply and the sample voltage rises with it to the point at which CRL begins to conduct. At this point, the sample voltage does not rise any further and the metering circuits are protected.

R-13. ~~Should CRL be damaged while performing this protection function, the Plate current meter reading will be below the actual value of the current.~~ If there is any reason to believe that the reading is inaccurate for this reason, follow the procedures described in paragraph R-3 to replace diode CRL.

#### R-14. TECHNICAL ASSISTANCE

R-15. HARRIS Technical and Troubleshooting assistance is available from HARRIS Field Service during normal business hours (8:00 AM to 5:00 PM Central Time). Emergency service is available 24 hours a day. Telephone 217/222-8200 to contact the Field Service Department or address correspondence to Field Service Department, HARRIS CORPORATION, Broadcast Division, P.O. Box 4290, Quincy, Illinois 62305-4290, USA. The HARRIS factory may also be contacted through a TWX facility (910-246-3212) or a TELEX service (247319).

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