

# NON-COMPLIANCE REPORT

Arkansas Department of Environmental Quality  
NPDES Enforcement Section  
5301 Northshore Drive  
North Little Rock, AR 72118

RE: NPDES Permit No: AR0049611 Discharge Number: 01A

Facility: Arkansas Electric Cooperative Corporation - Magnet Cove Generating Station

Address: 410 Henderson Road

City: Malvern State: AR Zip: 72104

Contact: Mark Folsland Phone: 843-259-8133

Date of Non-Compliance	Parameter Exceeded	Quantity or Loading	Quality or Concentration	Permit Limits
11/28/2023	FAC	N/A	0.42 / 1.25 mg/L	0.2 / 0.5 mg/L

**We feel this problem was due to:**

See attached.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**We plan on correcting the problem in this manner:**

See attached.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Time estimated that it will take to correct problem:**

See attached.  
\_\_\_\_\_  
\_\_\_\_\_

Sincerely,



Authorized Signature

12/12/23

Date

**Certification Statement:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (Revised March 2016)

**Noncompliance Report November 2023 DMR  
Magnet Cove Generating Station  
NPDES Permit No. AR0049611, AFIN 30-00337**

At 12:20 a.m. on November 27, plant staff at the Magnet Cove Generating Station (Magnet Cove) began a blowdown to collect the 48-hour required sampling for whole effluent toxicity (WET) testing purposes. A sample was taken from Outfall 01A (cooling tower blowdown) and tested for chlorine. The results were as follows:

- Free Available = 0.05 mg/L;
- Total Available = 0.02 mg/L.

A second sample was taken at 12:23 a.m. on November 28, and the results were:

- Free Available = 1.25 mg/L;
- Total Available = 2.16 mg/L.

Plant staff stopped the blowdown at 1:15 a.m. on November 28. At 8:00 a.m. the same day, staff investigated the issue and found the bisulfite pump was not properly operating. The pump was running, but there was no bisulfite coming out of the discharge pump. The suction side of the metering tube appeared to have a blockage, preventing the pump from moving bisulfite. The pump metering tube was then cleaned. Staff restarted a blowdown at 1:25 p.m. to test whether the pump system was functioning properly. A sample yielded the following results:

- Free Available = 0.03 mg/L;
- Total Available = 0.04 mg/L.

The blowdown was stopped after testing was completed and results demonstrated the pump was operating correctly, and the WET test has been rescheduled. Due to this issue with the pump system, Magnet Cove exceeded concentration limits for free available chlorine at Outfall 01A. The monthly average result was 0.44 mg/L, and the daily maximum result was 1.25 mg/L. The permit limits are 0.2 mg/L and 0.5 mg/L, respectively. The mass loading limits of 0.04 lb/day monthly average and 0.17 lb/day daily maximum were not exceeded, however.

AECC believes the pump issue has been resolved and will continue to monitor chlorine and the bisulfite pump system at Outfall 01A to ensure compliance in the future.

For questions and comments, please contact Eugene Jamison at 501-570-2472.