

Duke Power Company  
McGuire Nuclear Station  
12700 Hagers Ferry Road  
Huntersville, NC 28078

(704)875-4000



**DUKE POWER**

May 12, 1997

Mr. Rex Gleason, P.E.,  
Regional Manager, Water Quality Section  
North Carolina Department of Environmental,  
Health, and Natural Resources  
919 North Main Street  
Mooresville, North Carolina 28115

Re: Notification of Fecal Coliform Exceedance  
McGuire Nuclear Station, WT Sanitary System  
NPDES Permit # NC0024392  
Mecklenburg County, N.C.

Dear Mr. Gleason:

This written notification is pursuant to: Part II, Section E (6)(B)(2,3), of the Duke Power Company, McGuire Nuclear Station (WT System), NPDES Permit (NC0024392). This is a follow-up written report required to be submitted to the North Carolina Department of Environmental, Health, and Natural Resources for the May 8, 1997, for the fecal coliform exceedance, on Outfall 003. Telephone notification was made to Mike Parker of the Mooresville Regional Office on May 9, 1997, at approximately 10:00 a.m., by Eddie Faulkner of the Duke Power's McGuire Nuclear Site, Environmental Management.

The nature of the non-compliance was the exceedance of the daily maximum fecal coliform. The sample taken on May 6, 1997, showed >1600 colonies per 100 ml. Upon investigation, insufficient levels of chlorine, compounded by high level of nitrite was the major causes for the exceedance.

The chlorine level was increased, additional monitoring was performed, and additional sample was taken to ensure the WT System was back in compliance. The sample taken on Friday, May 9, 1997, showed <2/100ml.

Should you have any comments or concerns, please contact Eddie Faulkner Environmental Management at 704-875-5158.

A handwritten signature in cursive script, appearing to read 'Dayna Russell'.

Dayna Russell P.E.  
Environmental Manager  
McGuire Nuclear Station

xc: Mr. Dave Goodrich, NCDEHNR, Raleigh, N.C.

9708210004 970813  
PDR ADDCK 05000369  
S PDR

March 20, 1997

Mr. Rex Gleason  
Regional Manager, Water Quality Section,  
North Carolina Department of Environmental,  
Health, and Natural Resources  
919 North Main Street  
Mooresville, North Carolina 28115

Re: Compliance Evaluation Inspection - Notice of Deficiency  
McGuire Nuclear Station, NPDES Permit Number NC0024392  
Mecklenburg County

Attention: Richard Bridgeman;

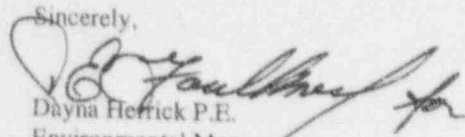
As a result of the Compliance Evaluation Inspection, on February 27, 1997, by Patricia Beam, the Mooresville Regional Office issued a Notice of Deficiency requiring our response. The deficiency was based on DEHNR's interpretation of the sampling protocol requiring the use of multiple standards when calibrating chlorine testing equipment.

The McGuire laboratory uses the DR-100 Hach Colorimeter Monitor, to test wastewater samples for chlorine, and per the manufacturers instructions, one standard is used for calibration before and after each use. The Hach Company, states that "using the 1.0 mg/l standard before and after each use to verify the correct calibration, and within the stated pH range, is sufficient for the DR-100, for verification of calibration". The meter was also calibrated against 8 standards 0.05 mg/l to 3.5 mg/l after its purchase in November of 1994 (see attachment 1). Therefore, given the Hach company's position and given Standard Methods refers to the use of "standards" without any specific detail, we have used the 1.0 mg/l calibration standard with confidence in its accuracy. After the inspection, the DR-100, was tested again on March 17, 1997 using 9 standards in the range of 0.05 mg/l to 4.0 mg/l. The results showed the instrument to be accurate and within tolerance (see attachment 2).

In order to comply with the Division of Water Quality's policies, we have changed our procedures to reflect the requirement to calibrate the DR-100 Colorimeter Chlorine Tester against multiple standards, on an annual basis, in addition to current methods.

If you require additional information, please contact Eddie Faulkner at 704-875-5158 or me at 704-875-5969.

Sincerely,

  
Dayna Herrick P.E.  
Environmental Manager  
McGuire Nuclear Station

xc: Mr. David Goodrich, NCDEHNR - Raleigh Office

Attachments