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AUTH. NAME	AUTHOR AFFILIATION	
PARKER, G.C.	Duke Power Co.	D
RECIP. NAME	RECIPIENT AFFILIATION	
GLEASON, R.	North Carolina, State of	S

SUBJECT: Submits follow-up rept to North Carolina Dept of Natural Resources & Community Development of non-compliance re non-contact cooling water discharge at Outfall 002. /

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Duke Power Company
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Huntersville, NC 28078-7929



DUKE POWER

December 16, 1993

Mr. Rex Gleason
Regional Manager
Water Quality Section
Mooresville Regional Office
Division of Environmental Management
and Community Development

Subject: DUKE POWER Training and Technology Center
NPDES Permit # NC0026255
File: MC-702.26
Certified: P-068-519-052

Dear Mr. Gleason,

Pursuant to Part II.E.6.b of the Duke Power Training and Technology Center (TTC) NPDES permit (NC0026255), this is a follow-up written report to the North Carolina Department of Natural Resources and Community Development (NCNRCD) of a recent noncompliance associated with the TTC's non-contact cooling water discharge at Outfall 002. Telephone notification was made to Mr. Joseph Crabb, NCNRCD Regional Office, Mooreville, N.C. on December 15, 1993, at approximately 3:45pm by Gerry C. Parker of Duke Power.

EVENT

As identified in the permit application, this outfall contains non-contact cooling water from a heat exchange system serving the TTC and Applied Science Center. The system is supplied by a drinking water system on site which is chlorinated. Usually during the winter months the heat exchange system does not operate, but a small flow of approximately 200 gallons per day is used to prevent stagnant conditions. Normally, chlorine is dissipated rapidly, but due to the cold weather the dissipation has been reduced.

The permit requires a monthly grab sample at this location. On December 14, 1993 the Outfall 002 was sampled for free available chlorine residual (FAC) in accordance with the Part I.A of the NPDES

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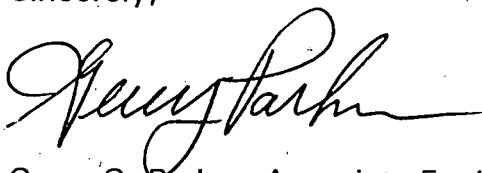
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permit. Results indicated a FAC concentration of 0.25ppm. Since this result was over the monthly average limit of 0.2ppm, but under the daily maximum limit of 0.5ppm, another sample was taken on 12/15/93. The results of the 12/15 showed the FAC concentration at 0.15ppm. Therefore, for the month of December, FAC concentrations are within permit limits.

However, during the sampling activities for December the results from the previous month of November were reviewed on 12/15/93. It was discovered that the FAC concentration sampled on 11/16/93 was 0.4ppm. Again, this concentration is below the daily maximum limit, but higher than the monthly average limit. No additional samples were taken for the month of November, so averaging of results is not possible. Hence, a non-compliance with the permit limits has occurred at this outfall for the month of November.

Other than refreshing the chemistry technicians involved with sampling the subject outfall on permit limits, no corrective actions are planned at this time. If you require any additional information, please contact me as soon as possible at 704-875-5966.

Sincerely,



Gerry C. Parker, Associate Engineer
Environmental Division/Water Protection

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