

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

WILLIAM A. HALLER
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NUCLEAR TECHNICAL SERVICES
(704) 373-8506



August 30, 1988

Ms. Nancy Weatherup
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, S.C. 29201

SUBJECT: Catawba Nuclear Station
NPDES Permit Modification #SC0004278
File: CN-702.13

In response to your letter dated August 19, 1988, we have reviewed the draft NPDES permit modification for Catawba Nuclear Station (attached). We offer the following comments: (1) On Page 5 of 24, Part I, A. Effluent Limitations and Monitoring Requirements, the verbiage addressing Measurement frequency for Ethylene Glycol should be corrected to read "** Measurement frequency is once per occurrence, but need not be more than twice per month." (2) All other components of the draft modification are acceptable.

With the correction mentioned above addressed, we accept this permit modification. Should you have any questions, please contact Mitch Griggs at 704-373-7080. Thank you for your attention in this matter.

W.A. Haller

W.A. Haller, Manager
Nuclear Technical Services

MCG/35/rhm

Attachment

xc: Al Williams, Catawba District
U.S. Nuclear Regulatory Commission
Washington, D.C.

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South Carolina Department of Health and Environmental Control

2600 Eull Street
Columbia, S.C. 29201

Commissioner
Michael D. Jarrett



August 19, 1988

Board

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Mr. W.A. Haller, Manager
Nuclear Technical Services
Duke Power Company
P.O. Box 33189
Charlotte, N.C. 28242

Re: NPDES Permit #SC0004278
Duke Power/Catawba Nuclear Station
York County

Dear Mr. Haller:

Per your letter of July 18, 1988 and our meeting of August 8, 1988 with Mitch Griggs and Cheryl Therrien of Duke Power, this Office has reviewed your proposed changes to the draft NPDES permit modification at the above referenced facility. Based on these supplemental discussions, we propose the modification to be as shown on the attached pages.

The submitted laboratory procedures are currently under review. Comments and/or approval will be sent at a later date.

Please review this modification and provide your comments and/or acceptance of the NPDES permit modification. If you have any questions, please contact me.

Sincerely,

Nancy Weatherup

Nancy Weatherup, P.E.
Industrial and Agricultural
Wastewater Division

NW/jf

cc: Al Williams



A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through the expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 002, wastewater treatment system discharged to Lake Wylie (Low volume wastes, chemical metal cleaning waste (#005)). Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitations		Monitoring Requirements	
	Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg.	Daily Max.		
Flow-m ³ /day (MGD)	-	-	1/week	Flow Indicator
Oil and Grease	15 mg/l	20 mg/l	2/month	Grab
Total Suspended Solids	30 mg/l	100 mg/l	2/month	Grab
Hydrazine	-	.43 mg/l	* 1/occurrence	Grab
Ethylene Glycol	11.9mg/l	23.8mg/l	** 1/occurrence	Grab

*Measurement frequency is once per occurrence, but shall be at least twice per month.

**Measurement frequency is ~~twice~~ ^{ONCE} per occurrence, but need not be more than twice per month.

The radiological components of this discharge is regulated by the United States Nuclear Regulatory Commission (NRC 10 CFR 50 Appendix I) and is monitored and reported to the NRC.

Based on a design flow of 3.4 MGD.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored: once per week by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the wastewater treatment system prior to mixing with any other waste streams.

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MODIFICATION DATE: _____

Bureau of Water Pollution Control

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through the expiration date the permittee is authorized to discharge from outfall(s) serial number(s) 004: Radwaste System Discharge

Such discharge shall be limited and monitored by the permittee as specified below:

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Effluent Characteristics	Discharge Limitations		Monitoring Requirements	
	Other Units (Specify)		Measurement Frequency	Sample Type
	Monthly Avg.	Daily Max.		
Oil and Grease	15 mg/l	20 mg/l	1/ year	Grab
Total Suspended Solids	30 mg/l	100 mg/l	1/ year	Grab
Boron	*	*	1/quarter	30 Day Composite
Hydrazine	*	*	**1/occurrence	Grab
Ethylene Glycol	*	*	**1/occurrence	Grab

This discharge is regulated by the United States Nuclear Regulatory Commission (NRC 10 CFR 50 Appendix I) and is monitored and reported to the NRC. However, in the event that chemical metals cleaning wastes as defined in 40 CFR Part 423 are discharged through this serial number, treatment shall be provided to assure that discharges are in compliance with requirements of Part 423.13.

Based on a Design of .140 MGD.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Wastewater treatment system prior to mixing with any other waste stream. Boron shall be sampled from the radiological sample location.

*Record results.

**Measurement frequency is once per occurrence, but need not be more than once per month.

PART 1
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PART III
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Bureau of Water Pollution Control

- U. A monitoring program will be implemented to determine downstream concentrations of boron. A downstream sample shall be collected at the radiological sample location and analyzed for boron once per quarter. If there is no significant impact on water quality after 5 years of data collection, the monitoring requirement will be eliminated.
- V. Monitoring of the rad waste discharge for oil and grease and total suspended solids will be implemented for one year. If shown that the above parameters are not in significant amounts in the rad wastewater the monitoring requirement will be eliminated.
- W. Duke will perform a 316(a) study to assess any measurable thermal effects on the biota of Lake Wylie. The first year pre-operational data was collected by a consultant, Industrial Biotest, Inc. Duke implemented the second year of pre-operational data collection in May, 1983 and will continue through May, 1984. The operational impact assessment phase of the study will be similar to the second year pre-operational phase with only minor changes made if the results indicate modifications are necessary. The plan and any significant change must be approved by Department of Health and Environmental Control. The operational phase will commence when Unit 1 reaches 50% power and will continue for one year. Another second year of data collection will be initiated when Unit 2 reaches 50% power. A report will be submitted to DHEC upon completion of each one-year operational phase study.
- X. The rad waste discharge will be required to be monitored and results reported of the discharge concentration for Hydrazine (Part I Page 7 of 24). If values are greater than 15 mg/l, this permit may be modified to provide Hydrazine limitations and/or biological monitoring. Reporting requirements, pursuant to Section 402 of the Clean Water Act (Regulation 40 CFR 117), Section 102 of CERCLA (Regulation 40 CFR 302), and Section 302 of SARA Title III (Regulation 40 CFR 355), for an exceedence of the applicable reportable quantity for Hydrazine, will be initiated if the discharge concentration of Hydrazine exceeds 15.0mg/l, and the reportable quantity has been exceeded.

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