

PRP  
MR C C Cunningham  
FILES

DUKE POWER COMPANY  
POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

April 19, 1982

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

TELEPHONE: AREA 704  
373-4083

Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Re: McGuire Nuclear Station 10  
Docket Nos. 50-369, -370  
Annual Non-Radiological Environmental Operating Report

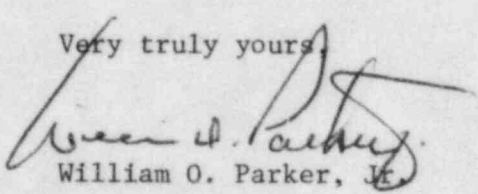
Dear Mr. O'Reilly:

The McGuire Nuclear Station Environmental Protection Plan (EPP), Appendix B to the McGuire Operating License, requires an Annual Environmental Operating Report. This report is contained in Attachments 1 through 4 as indicated below:

- Attachment 1 - Summaries and analyses of results of activities required by Section 4.2 of the EPP.
- Attachment 2 - List of EPP non-compliances and corrective actions.
- Attachment 3 - List of changes in station design or operation, tests and experiments which involve a potentially significant unreviewed environmental issue.
- Attachment 4 - List of non-routine reports submitted in accordance with Section 5.4.2 of the EPP.

This report covers the calendar year 1981 since the initial McGuire license and the EPP were issued on January 23, 1981. Please advise if there are questions concerning this report.

Very truly yours,

  
William O. Parker, Jr.

GAC/jfw  
Attachments

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PDR ADOCK 05000369  
R PDR

OFFICIAL COPY

82-63

IE2511

James P. O'Reilly  
Page 2

cc: Document Control Desk (18 copies)  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. Paul R. Bemis  
Senior Resident Inspector-NRC  
McGuire Nuclear Station

Attachment 1  
McGuire Nuclear Station

Summaries and analyses of results of activities required by Section 4.2  
of the EPP.

Section 4.2 identifies no monitoring programs beyond those required by the NPDES permit. Thus the monthly reports submitted to the State of North Carolina provide the summaries of EPP activities. Copies of these monthly summaries are attached.

LWP

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

March 10, 1981

Division of Environmental Management

Water Quality Section

P. O. Box 27687

Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
Belews Creek Steam Station - NC<sup>92</sup>24406  
McGuire Nuclear Station - NC0024406  
File: BC-704.21, MC-704.21 392

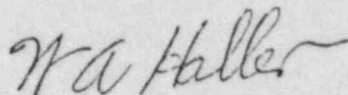
Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly monitoring report for January 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at Belews Creek and McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA Form 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental  
Services Group

LWP/tw

Enclosure

cc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "



DISCHARGE MONITORING REPORT (DMR)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, NC

|                     |                  |
|---------------------|------------------|
| (2-16)<br>NC0024392 | (17-19)<br>002   |
| PERMIT NUMBER       | DISCHARGE NUMBER |

| MONITORING PERIOD |         |         |         |    |         |         |         |
|-------------------|---------|---------|---------|----|---------|---------|---------|
| FROM              | 81      | 01      | 01      | TO | 81      | 01      | 31      |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.3   | 0.4     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 6.85  | 7.53    | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 1.6  | 3.6     | 5.0     | mg/l  | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |       |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.3  | 0.4     | 0.4     | mg/l  | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|  |   |  |  |           |        |      |    |
|--|---|--|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER   | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |  | TELEPHONE | DATE   |      |    |
| William O. Parker, Jr.<br>Vice President |   |  |  |           |        |      |    |
| TYPED OR PRINTED                         |   |  |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

(2-16) NC0024392  
PERMIT NUMBER  
(17-19) 005  
DISCHARGE NUMBER

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, NC

MONITORING PERIOD  
FROM 81 01 01 TO 81 01 31  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         |       | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(54-58) | SAMPLE<br>TYPE<br>(59-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.2   | 2.8     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.10  | 8.68    | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|  |  |   |           |        |      |        |
|--|--|---|-----------|--------|------|--------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br>William O. Parker, Jr.<br>Vice President<br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and for maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE<br>OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |        |
|  |  |   | AREA CODE | NUMBER | YEAR | MO DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

April 13, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
Belews Creek Steam Station - NC0024406  
McGuire Nuclear Station - NC0024392  
File: BC-704.21, MC-704.21

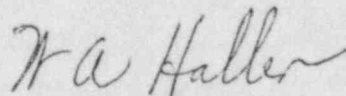
Dear Sir:

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Very truly yours,



W. A. Haller, Manager  
Technical & Environmental  
Services Group

LWP/tw

Enclosure

cc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "



FACILITY McGuire Nuclear Station  
LOCATION Cornelius, NC

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)  
(2-16)  
NCC032355

NC0024392

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

Form Approved  
OMB No. 158 - R0073

| MONITORING PERIOD |    |
|-------------------|----|
| 02                | 03 |

|         |         |         |      |    |     |
|---------|---------|---------|------|----|-----|
| FROM    |         |         | TO   |    |     |
| 81      | 02      | 01      | 81   | 02 | 28  |
| YEAR    | MO      | DAY     | YEAR | MO | DAY |
| (20-21) | (22-23) | (24-25) |      |    |     |

NOTE: Read instructions before completing this form.

|                        |  |                                |  |                                     |  |                          |  |
|------------------------|--|--------------------------------|--|-------------------------------------|--|--------------------------|--|
| PARAMETER<br>(32-37)   |  | X                              |  | MONITORING PERIOD                   |  | DISCHARGE NUMBER         |  |
|                        |  | FROM                           |  | TO                                  |  |                          |  |
|                        |  | 81 02 01                       |  | 81 02 28                            |  |                          |  |
|                        |  | YEAR MO DAY                    |  | YEAR MO DAY                         |  |                          |  |
|                        |  | (20-71) (22-23) (24-25)        |  | (26-27) (28-29) (30-31)             |  |                          |  |
|                        |  | (3 Card Only)<br>(46-53)       |  | (4 Card Only)<br>(38-45)            |  | (4 Card Only)<br>(46-53) |  |
|                        |  | QUANTITY OR LOADING<br>(54-61) |  | QUALITY OR CONCENTRATION<br>(54-61) |  |                          |  |
|                        |  | AVERAGE                        |  | MAXIMUM                             |  | UNITS                    |  |
|                        |  | 0.5                            |  | 0.7                                 |  | MGD                      |  |
| Flow                   |  | SAMPLE MEASUREMENT             |  | MINIMUM                             |  | AVERAGE                  |  |
|                        |  | PERMIT REQUIREMENT             |  | MAXIMUM                             |  | UNITS                    |  |
|                        |  | SAMPLE MEASUREMENT             |  | 0                                   |  | 1/1                      |  |
|                        |  | PERMIT REQUIREMENT             |  | GR                                  |  |                          |  |
| pH                     |  | SAMPLE MEASUREMENT             |  | 2.6                                 |  | 3.5                      |  |
|                        |  | PERMIT REQUIREMENT             |  | 30                                  |  | 4.5                      |  |
|                        |  | SAMPLE MEASUREMENT             |  | 0.2                                 |  | 0.4                      |  |
|                        |  | PERMIT REQUIREMENT             |  | 15                                  |  | 20                       |  |
| Total Suspended Solids |  | SAMPLE MEASUREMENT             |  | 0.6                                 |  | mg/l                     |  |
|                        |  | PERMIT REQUIREMENT             |  | 20                                  |  | mg/l                     |  |
|                        |  | SAMPLE MEASUREMENT             |  | 0                                   |  | 1/1                      |  |
|                        |  | PERMIT REQUIREMENT             |  | GR                                  |  |                          |  |
| Oil and Grease         |  | SAMPLE MEASUREMENT             |  | 0                                   |  | 1/1                      |  |
|                        |  | PERMIT REQUIREMENT             |  | GR                                  |  |                          |  |
|                        |  | SAMPLE MEASUREMENT             |  | 0                                   |  | 2/mo                     |  |
|                        |  | PERMIT REQUIREMENT             |  | GR                                  |  |                          |  |
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|                        |  | SAMPLE MEASUREMENT             |  |                                     |  |                          |  |
|                        |  |                                |  |                                     |  |                          |  |



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, NC 28242

(2-16) NC0024392  
PERMIT NUMBER  
(17-19) 005  
DISCHARGE NUMBER

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, NC

MONITORING PERIOD  
FROM 81 02 01 TO 81 02 28  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |               | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) (54-61) |         |         |       | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|---------------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS         | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.2   | 3.6     | MGD           |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.75  | 9.76    | Std.<br>Units |  |         |         |       | 5                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |               |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |               |  |         |         |       |                      |  |                           |

|  |  |  |           |        |      |    |
|--|--|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and for maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
| TYPED OR PRINTED                       |  |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 2178

TELEPHONE: AREA 704  
373-4011

May 11, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report For  
Belews Creek Steam Station - NC0024406  
McGuire Nuclear Station - NC0024392  
File: BC-704.21, MC-704.21

Dear Sir:

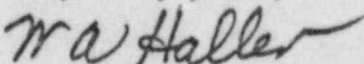
In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly monitoring report for March 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at Belews Creek and McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA Form 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

The Waste Water Collection Basin (WWCB) effluent pH at McGuire Nuclear Station exceeded the maximum limitations of 9.0 standard units in March. Our letter of October 19, 1978 to Mr. D. Rex Gleason outlined the history of WWCB and pH fluctuations which appear to be caused by photosynthetic activity.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical and Environmental  
Services Group

LWP/tw

Enclosure

cc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC0045392  
PERMIT NUMBER  
(17-19) 002  
DISCHARGE NUMBER

MONITORING PERIOD  
FROM 81 03 01 TO 81 03 31  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)  
YEAR MO DAY YEAR MO DAY

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.4   | 0.7     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 7.28  | 8.7     | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 4.8  | 8.0     | 11.4    | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.1     | 0.1     | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|   |   |  |           |        |      |    |     |
|---|---|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br>William O. Parker, Jr.<br>V. P. Steam Prod.<br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|   |   |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 158-R0073

NAME Duke Power Company

ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

(2-16)  
NC0024392

PERMIT NUMBER

(17-19)  
005

DISCHARGE NUMBER

FACILITY McGuire Nuclear Station

LOCATION Cornelius, N. C.

MONITORING PERIOD

FROM 81 03 01 TO 81 03 31  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 1.1   | 4.3     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 9.86  | 10.5    | Std.  |  |         |         |       | 22                   | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

William O. Parker, Jr.  
V.P. Steam Prod.

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA  
CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 2178

TELEPHONE: AREA 704  
373-4011

June 12, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report For  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

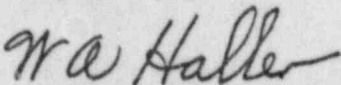
In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly monitoring report for April 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report forms and the EPA Form 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

The Waste Water Collection Basin (WWCB) effluent pH at McGuire Nuclear Station exceeded the maximum limitations of 9.0 standard units in April. Our letter of October 19, 1978 to Mr. D. Rex Gleason outlined the history of WWCB and pH fluctuations which appear to be caused by photosynthetic activity.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: J. E. Lansche      w/o enclosure  
J. R. Hendricks      "      "  
N. A. Rutherford      w/enclosure  
Harold R. Denton      "      "

DISCHARGE MONITORING REPORT (DMR)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|                   |         |                  |         |
|-------------------|---------|------------------|---------|
| (2-16)            |         | (17-19)          |         |
| NC0024392         |         | 002              |         |
| PERMIT NUMBER     |         | DISCHARGE NUMBER |         |
| MONITORING PERIOD |         |                  |         |
| FROM              | 81      | 04               | 01      |
|                   | YEAR    | MO               | DAY     |
|                   | (20-21) | (22-23)          | (24-25) |
| TO                | 81      | 04               | 30      |
|                   | YEAR    | MO               | DAY     |
|                   | (26-27) | (28-29)          | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.5   | 0.7     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 6.96  | 8.1     | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 5.15   | 7.5     | 9.0     | mg/l  | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |       |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.4     | 0.6     | mg/l  | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |   |  |           |        |      |    |
|---|---|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER              | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
| William O. Parker, Jr.<br>V. President, Steam Prod. |   |  | AREA CODE | NUMBER | YEAR | MO |
| TYPED OR PRINTED                                    |   |  |           |        |      |    |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|               |  |                  |  |
|---------------|--|------------------|--|
| (2-16)        |  | (17-19)          |  |
| NC00024392    |  | 005              |  |
| PERMIT NUMBER |  | DISCHARGE NUMBER |  |

| MONITORING PERIOD |         |         |         |    |                         |
|-------------------|---------|---------|---------|----|-------------------------|
| FROM              | 81      | 04      | 01      | TO | 81 04 30                |
|                   | YEAR    | MO      | DAY     |    | YEAR MO DAY             |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) (28-29) (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |       | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(46-53) (54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 1.6   | 4.3     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.8   | 10.0    | Std.  |  |         |         |       | 10                   | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |   |  |           |      |    |
|---|---|--|-----------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V. President, Steam Prod.</u> | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE |    |
| AREA CODE   |   |  | NUMBER    | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

July 14, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

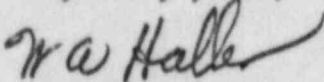
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The Waste Water Collection Basin (WWCB) effluent pH at McGuire Nuclear Station exceeded the maximum limitations of 9.0 standard units in May. Our letter of October 19, 1978 to Mr. D. Rex Gleason outlined the history of WWCB and pH fluctuations which appear to be caused by photosynthetic activity.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: L. E. Lansche w/o enclosure  
J. R. Hendricks " "  
N. A. Rutherford w/enclosure  
Harold R. Denton " "



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

(2-16) NCO024392  
PERMIT NUMBER  
(17-19) 002  
DISCHARGE NUMBER

FACILITY McGuire Nuclear Station  
LOCATION Cornelius

MONITORING PERIOD  
FROM 81 05 01 TO 81 05 31  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.5   | 0.7     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 7.0   | 8.4     | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 6.0  | 6.1     | 6.3     | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.3  | 0.7     | 1.0     | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|   |   |  |           |        |      |    |
|---|---|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br>William O. Parker, Jr.<br>Vice President, Steam Prod.<br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
|   |   |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|                      |         |                  |         |    |         |         |         |
|----------------------|---------|------------------|---------|----|---------|---------|---------|
| (2-16)<br>NC00024392 |         | (17-19)<br>005   |         |    |         |         |         |
| PERMIT NUMBER        |         | DISCHARGE NUMBER |         |    |         |         |         |
| MONITORING PERIOD    |         |                  |         |    |         |         |         |
| FROM                 | 81      | 05               | 01      | TO | 81      | 05      | 31      |
|                      | YEAR    | MO               | DAY     |    | YEAR    | MO      | DAY     |
|                      | (20-21) | (22-23)          | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.9   | 4.6     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.2   | 9.2     | Std.  |  |         |         |       | 2                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |   |  |           |        |      |    |     |
|---|---|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br>William O. Parker, Jr.<br>Vice President, Steam Prod.<br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|   |   |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: ARFA 704  
373-4011

August 14, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, NC 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly monitoring report for June 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA Form 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

The Waste Water Collection Basin (WWCB) effluent pH at McGuire Nuclear Station exceeded the maximum limitation of 9.0 standard units on June 17, 1981 with a pH recording of 9.2 standard units. Our letter of October 19, 1978 to Mr. D. Rex Gleason outlined the history of WWCB and pH fluctuations which appear to be caused by photosynthetic activity.

Please contact us if you require further clarification.

Very truly yours,

*W A Haller*

W. A. Haller, Manager  
Technical & Environmental Services

LWP/be  
Enclosure

xc: L. E. Lansche w/o enclosure  
J. R. Hendricks " "  
N. A. Rutherford w/enclosure  
Harold R. Denton " "

NAME Duke Power Company  
 ADDRESS P. O. Box 33189  
Charlotte, N.C. 28242  
 FACILITY McGuire Nuclear Station  
 LOCATION Cornelius, N.C.

|                     |                  |
|---------------------|------------------|
| (2-16)<br>NC0024392 | (17-19)<br>002   |
| PERMIT NUMBER       | DISCHARGE NUMBER |

| MONITORING PERIOD |         |         |    |         |         |         |
|-------------------|---------|---------|----|---------|---------|---------|
| 81                | 06      | 01      | TO | 81      | 06      | 30      |
| YEAR              | MO      | DAY     |    | YEAR    | MO      | DAY     |
| (20-21)           | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   | X                  | (3 Card Only) QUANTITY OR LOADING<br>(46-53) |         |            | (4 Card Only) QUALITY OR CONCENTRATION<br>(46-53) |                |                |       | NO. EX<br>(62-63) | FREQUENCY OF ANALYSIS<br>(64-68) | SAMPLE TYPE<br>(69-70) |
|------------------------|--------------------|--|---------|------------|---|----------------|----------------|-------|-------------------|----------------------------------|------------------------|
|                        |                    | AVERAGE                                      | MAXIMUM | UNITS      | MINIMUM   | AVERAGE        | MAXIMUM        | UNITS |                   |                                  |                        |
| Flow                   | SAMPLE MEASUREMENT | 0.4  | 0.8     | MGD        |   |                |                |       |                   | 1/1                              | GR                     |
|                        | PERMIT REQUIREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
| pH                     | SAMPLE MEASUREMENT | 6.9  | 7.9     | Std. Units |   |                |                |       | 0                 | 1/1                              | GR                     |
|                        | PERMIT REQUIREMENT |  | 9       |            |   |                |                |       |                   |                                  |                        |
| Total Suspended Solids | SAMPLE MEASUREMENT |  |         |            | 6.1   | 7.3            | 8.6            | mg/L  | 0                 | 1/1                              | GR                     |
|                        | PERMIT REQUIREMENT |  |         |            |   | 30             | 100            |       |                   |                                  |                        |
| Oil and Grease         | SAMPLE MEASUREMENT |  |         |            | 0.1   | <del>0.1</del> | <del>0.1</del> | mg/L  | 0                 | 2/mo                             | GR                     |
|                        | PERMIT REQUIREMENT |  |         |            |   | 15             | 20             |       |                   |                                  |                        |
|                        | SAMPLE MEASUREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
|                        | PERMIT REQUIREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
|                        | SAMPLE MEASUREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
|                        | PERMIT REQUIREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
|                        | SAMPLE MEASUREMENT |  |         |            |   |                |                |       |                   |                                  |                        |
|                        | PERMIT REQUIREMENT |  |         |            |   |                |                |       |                   |                                  |                        |

|  |   |  |           |        |      |
|--|---|--|-----------|--------|------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | TELEPHONE  | DATE      |        |      |
| TYPED OR PRINTED                       |   | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA CODE | NUMBER | YEAR |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N.C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N.C.

|                   |         |                  |         |
|-------------------|---------|------------------|---------|
| (2-16)            |         | (17-19)          |         |
| NC0024392         |         | 005              |         |
| PERMIT NUMBER     |         | DISCHARGE NUMBER |         |
| MONITORING PERIOD |         |                  |         |
| FROM              | 81      | 06               | 01      |
|                   | YEAR    | MO               | DAY     |
|                   | (20-21) | (22-23)          | (24-25) |
| TO                | 81      | 06               | 30      |
|                   | YEAR    | MO               | DAY     |
|                   | (26-27) | (28-29)          | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) | X                  | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |            | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(46-53) (54-61) |         |         |       | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|------------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS      | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 3.4   | 4.3     | MGD        |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.1   | 9.2     | Std. Units |  |         |         |       | 1                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       |            |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |            |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |            |  |         |         |       |                      |  |                           |

|  |   |  |  |           |        |      |    |
|--|---|--|--|-----------|--------|------|----|
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| TYPED OR PRINTED                       |   | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

September 10, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N.C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

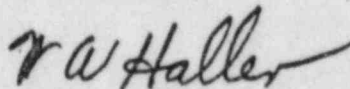
Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for July 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

xc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|                     |         |                  |         |    |         |         |         |
|---------------------|---------|------------------|---------|----|---------|---------|---------|
| (2-16)<br>NCO024392 |         | (17-19)<br>002   |         |    |         |         |         |
| PERMIT NUMBER       |         | DISCHARGE NUMBER |         |    |         |         |         |
| MONITORING PERIOD   |         |                  |         |    |         |         |         |
| FROM                | 81      | 07               | 01      | TO | 81      | 07      | 31      |
|                     | YEAR    | MO               | DAY     |    | YEAR    | MO      | DAY     |
|                     | (20-21) | (22-23)          | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.3   | 0.7     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 6.95  | 7.50    | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 2.7  | 8.6     | 24.4    | mg/l  | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |       |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.3     | 0.5     | mg/l  | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |  |  |  |           |        |      |    |
|---|--|--|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER          | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and for maximum imprisonment of between 6 months and 5 years.) | TELEPHONE  |  | DATE      |        |      |    |
| William O. Parker, Jr.<br>V.P. Steam Production |  |  |  |           |        |      |    |
| TYPED OR PRINTED                                |  | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|               |  |                  |  |
|---------------|--|------------------|--|
| (2-16)        |  | (17-19)          |  |
| NC0024392     |  | 005              |  |
| PERMIT NUMBER |  | DISCHARGE NUMBER |  |

| MONITORING PERIOD |         |         |         |    |         |         |         |
|-------------------|---------|---------|---------|----|---------|---------|---------|
| FROM              | 81      | 07      | 01      | TO | 81      | 07      | 31      |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 4.0   | 8.9     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 7.84  | 8.6     | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|   |   |  |        |           |    |      |  |
|---|---|--|--------|-----------|----|------|--|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V.P. Steam Production</u><br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |        | TELEPHONE |    | DATE |  |
|   |   | AREA CODE  | NUMBER | YEAR      | MO | DAY  |  |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

EFFLUENT SAMPLES

G. July 19 81  
MONTHLY REPORT FOR

H NC 0024392203 (WWCB)  
EFFLUENT I.D. NUMBER

80

| D.                                      |   |  | INFLUENT EFFLUENT    |              | F.          |                     | MONTHLY REPORT FOR |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    | EFFLUENT I.D. NUMBER |  |  | 0 |  |  |
|---|---|--|----------------------|--------------|-------------|---------------------|--------------------|------------------|-------------------|--------------------------|-----|-------------------|---------------|-------------------------|------------------|---|----------------|-----------|--------|----------------|------------------|-------------------------|-----------------------------|----|----|----------------------|--|--|---|--|--|
| 1                                       | 2                                       | 3  | 4                    | 5            | 6           | 7                   | 8                  | 9                | 10                | 11                       | 12  | 13                | 14            | 15                      | 16               | 17  | 18             | 19        | 20     | 21             | 22               | 23                      | 24                          | 25 | 26 |                      |  |  |   |  |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | MAXIMUM RATE         | MINIMUM RATE | DAILY TOTAL | TEMPERATURE (°C/°F) | pH                 | SETTLABLE MATTER | RESIDUAL CHLORINE | BOD <sub>5</sub> , 20 °C | COD | NITROGEN, AMMONIA | TOTAL RESIDUE | TOTAL SUSPENDED RESIDUE | TOTAL PHOSPHORUS | OIL & GREASE (SEPARATORY FUNNEL EXTRACTION) | FECAL COLIFORM | TURBIDITY | COPPER | TOTAL CHROMIUM | DISSOLVED OXYGEN | TOTAL KJELDAHL NITROGEN | ENTER SAMPLE CODE NO. ABOVE |    |    |                      |  |  |   |  |  |
|   |   |  | WASTEWATER FLOW, MGD |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 1                                       | 0800                                    |  |                      |              | 2.32        |                     | 7.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 2                                       | 0730                                    |  |                      |              | 4.65        |                     | 7.7                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 3                                       | 0730                                    |  |                      |              | 4.89        |                     | 7.1                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 4                                       |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 5                                       |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 6                                       | 0750                                    |  |                      |              | 3.46        |                     | 8.1                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 7                                       | 0730                                    |  |                      |              | 3.65        |                     | 8.5                |                  |                   |                          |     |                   |               | 3.4                     |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 8                                       | 0800                                    |  |                      |              | 4.08        |                     | 8.5                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 9                                       | 0725                                    |  |                      |              | 4.34        |                     | 8.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 10                                      | 0750                                    |  |                      |              | 3.77        |                     | 8.6                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 11                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 12                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 13                                      | 0735                                    |  |                      |              | 3.09        |                     | 8.2                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 14                                      | 0730                                    |  |                      |              | 3.77        |                     | 8.2                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 15                                      | 0815                                    |  |                      |              | 3.98        |                     | 8.2                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 16                                      | 0740                                    |  |                      |              | 2.32        |                     | 8.2                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 17                                      | 0755                                    |  |                      |              | 5.31        |                     | 7.5                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 18                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 19                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 20                                      | 0930                                    |  |                      |              | 2.32        |                     | 7.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 21                                      | 0810                                    |  |                      |              | 2.26        |                     | 7.7                |                  |                   |                          |     |                   |               | 4.4                     |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 22                                      | 0830                                    |  |                      |              | >8.92       |                     | 7.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 23                                      | 0830                                    |  |                      |              | >8.92       |                     | 7.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 24                                      | 0730                                    |  |                      |              | 5.66        |                     | 7.5                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 25                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 26                                      |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 27                                      | 0830                                    |  |                      |              | 1.93        |                     | 7.9                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 28                                      | 0735                                    |  |                      |              | 1.93        |                     | 7.2                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 29                                      | 0745                                    |  |                      |              | 4.34        |                     | 8.4                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 30                                      | 0735                                    |  |                      |              | 3.09        |                     | 8.0                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| 31                                      | 0735                                    |  |                      |              | 3.65        |                     | 7.3                |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| MONTHLY AVERAGE                         |   |  | J                    |              | >4.03       |                     | 8.2                |                  |                   |                          |     |                   |               | 3.9                     |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| MONTHLY MAXIMUM                         |   |  | K                    |              | >8.92       |                     | 8.6                |                  |                   |                          |     |                   |               | 4.4                     |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| MONTHLY MINIMUM                         |   |  | J                    |              | 1.93        |                     | 7.1                |                  |                   |                          |     |                   |               | 3.4                     |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| TYPE OF COMPOSITE SAMPLE                |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |
| GRAB                                    |   |  |                      |              |             |                     |                    |                  |                   |                          |     |                   |               |                         |                  |   |                |           |        |                |                  |                         |                             |    |    |                      |  |  |   |  |  |

A. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Mecklenburg  
CITY Charlotte  
B. NAME OF PERSON COLLECTING SAMPLES Larry R. Kimray  
C. GRADE OF CERTIFICATE FIELD II  
IF THE RESPONSIBLE OPERATOR IN CHARGE HAS CHANGED SINCE THE PREVIOUS REPORT, PLEASE CHECK THIS BLOCK ☐

L. MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
JGH, NORTH CAROLINA 27611

N. TREATMENT PLANT NAME, IF APPLICABLE N/A

Q. NAME OF PERSON COLLECTING SAMPLES Amy Best

P. Larry R. Kimray  
CERTIFIED BY

Q NC 0024392  
PERMIT OR NIDES  
DISCHARGE PERMIT  
NUMBER

R. CLASS OF FACILITY

S. NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS not certified

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE AN ARITHMETIC MEAN

MAIL WHITE & PINK COPIES TO RALEIGH  
RETAIN YELLOW COPY FOR FILES

## EFFLUENT SAMPLES

G July 1981  
MONTHLY REPORT FORH NC 0024392213 (WC)  
EFFLUENT I.D. NUMBER

80

| D.   |   |   | E. WASTEWATER FLOW<br>MEASURED AS (Check One)<br><input type="checkbox"/> INFLUENT<br><input type="checkbox"/> EFFLUENT |                 |                | F.                       |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
|--|---|---|---|-----------------|----------------|--------------------------|-----|-----------------------------|------------------------------|----------------------------------|-------------|-----------------------------|--------------------------|---------------------------------------|-----------------------------|---|-----------------------------|------------------|----------------|---------------------------|-----------------------------|---------------------------------------|----|----|----|
| 1  | 2   | 3   | 4   | 5               | 6              | 7                        | 8   | 9                           | 10                           | 11                               | 12          | 13                          | 14                       | 15                                    | 16                          | 17  | 18                          | 19               | 20             | 21                        | 22                          | 23                                    | 24 | 25 | 26 |
| DATE GRAB OR<br>COMPOSITE<br>SAMPLE<br>COLLECTED | GRAB SAMPLE<br>COLLECTION<br>TIME, 2400 CLOCK | LENGTH OF TIME<br>COMPOSITE SAMPLE<br>WAS COLLECTED<br>IN HOURS | WASTEWATER FLOW - MGD<br>MAXIMUM<br>RATE  | MINIMUM<br>RATE | DAILY<br>TOTAL | TEMPERATURE<br>(CELSIUS) | pH  | SETTLABLE<br>MATTER<br>ML/L | RESIDUAL<br>CHLORINE<br>MG/L | BOC <sub>5</sub> , 20 °C<br>MG/L | COD<br>MG/L | NITROGEN<br>AMMONIA<br>MG/L | TOTAL<br>RESIDUE<br>MG/L | TOTAL<br>SUSPENDED<br>RESIDUE<br>MG/L | TOTAL<br>PHOSPHORUS<br>MG/L | OIL & GREASE<br>SEPARATOR<br>FURNEL<br>EXTRACTION<br>MG/L | FECAL<br>COLIFORM<br>100 ML | TURBIDITY<br>NTU | COPPER<br>MG/L | TOTAL<br>CHROMIUM<br>MG/L | DISSOLVED<br>OXYGEN<br>MG/L | TOTAL<br>KJELDAHL<br>NITROGEN<br>MG/L |    |    |    |
| 1  | 1745  |   |   |                 | 0.19           |                          | 6.9 |                             |                              |                                  |             |                             |                          | 24.4                                  |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 2  | 0800  |   |   |                 | 0.76           |                          | 6.9 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 3  | 0825  |   |   |                 | 0.76           |                          | 6.7 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 4  | 1025  |   |   |                 | 0.63           |                          | 6.9 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 5  | 0915  |   |   |                 | 0.65           |                          | 6.9 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 6  | 0750  |   |   |                 | 0.62           |                          | 6.9 |                             |                              |                                  |             |                             |                          | 6.0                                   |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 7  | 0730  |   |   |                 | 0.52           |                          | 7.1 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 8  | 0800  |   |   |                 | 0.12           |                          | 7.0 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 9  |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 10   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 11   | 1430  |   |   |                 | 0.26           |                          | 6.7 |                             |                              |                                  |             |                             |                          | 5.3                                   |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 12   | 0900  |   |   |                 | 0.66           |                          | 6.4 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 13   | 0800  |   |   |                 | 0.27           |                          | 8.0 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 14   | 1030  |   |   |                 | 0.27           |                          | 7.5 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 15   | 0815  |   |   |                 | 0.22           |                          | 7.4 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 16   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 17   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 18   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 19   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 20   | 0930  |   |   |                 | 0.32           |                          | 6.7 |                             |                              |                                  |             |                             |                          | 2.7                                   |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 21   | 0810  |   |   |                 | 0.73           |                          | 6.8 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 22   | 0830  |   |   |                 | 0.59           |                          | 6.9 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 23   | 0800  |   |   |                 | 0.12           |                          | 6.8 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 24   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 25   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 26   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 27   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 28   |   |   | NO FLOW   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 29   | 1100  |   |   |                 | 0.36           |                          | 6.8 |                             |                              |                                  |             |                             |                          | 4.6                                   |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 30   | 0735  |   |   |                 | 0.69           |                          | 6.5 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| 31   | 0735  |   |   |                 | 0.40           |                          | 7.2 |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| L. MONTHLY AVERAGE                               |   |   | /   |                 | 0.30           |                          | 6.8 |                             |                              |                                  |             |                             |                          | 8.6                                   |                             | 0.3   |                             |                  |                |                           |                             |                                       |    |    |    |
| MONTHLY MAXIMUM                                  |   |   | /   |                 | 0.76           |                          | 7.5 |                             |                              |                                  |             |                             |                          | 24.4                                  |                             | 0.5   |                             |                  |                |                           |                             |                                       |    |    |    |
| MONTHLY MINIMUM                                  |   |   | /   |                 | 0.12           |                          | 6.4 |                             |                              |                                  |             |                             |                          | 2.7                                   |                             | 0.1   |                             |                  |                |                           |                             |                                       |    |    |    |
| M. TYPE OF SAMPLE                                |   |   |   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| COMPOSITE  |   |   |   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |
| GRAB   |   |   |   |                 |                |                          |     |                             |                              |                                  |             |                             |                          |                                       |                             |   |                             |                  |                |                           |                             |                                       |    |    |    |

1. MONTHLY MONITORING REPORT TO  
SIGN OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
1001 NORTH CAROLINA 27601N. N/A  
TREATMENT PLANT NAME, IF APPLICABLEQ. Amy Best  
NAME OF PERSON COLLECTING SAMPLESP. Larry R. Klimay  
CERTIFIED BYMAIL WHITE & PINK  
COPIES TO RALEIGHQ. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR. CLASS OF  
FACILITYS. not certified  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS\*ENTER GEOMETRIC MEAN HERE DO NOT USE  
AN ARITHMETIC MEANRETAIN YELLOW  
COPY FOR FILESA. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Mecklenburg  
B. NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name) Larry R. Klimay  
C. GRADE OF CERTIFICATE FIELD 11  
(If not certified, enter NONE)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

CITY Charlotte

(004 Metal Cleaning Waste)

E WASTEWATER FLOW  
MEASURED AS (check one)  
☐ INFLUENT  
☐ EFFLUENT

EFFLUENT SAMPLES

G July MONTHLY REPORT FOR

HNC 0024392223 discharge documentation 80

| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LEAST 5TH OF TIME COMPOSITE SAMPLE WAS COLLECTED | IN HOURS | MAXIMUM RATE | MINIMUM RATE | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH    | SETTLABLE SOLIDS | CHLORINE RESIDUAL | CO <sub>2</sub> , 20 °C | COD   | NITROGEN, AMMONIA | TOTAL RESIDUE | TOTAL SUSPENDED RESIDUE | TOTAL PHOSPHOROUS | EXTRACTION | FECAI | TURBIDITY | COOPER | TOTAL CHROMIUM | DISSOLVED OXYGEN | TOTAL NITROGEN |
|---|---|--|----------|--------------|--------------|-------------|-----------------------|-------|------------------|-------------------|-------------------------|-------|-------------------|---------------|-------------------------|-------------------|------------|-------|-----------|--------|----------------|------------------|----------------|
| 1                                       |   |  |          | 50947        | 50948        | 50950       | 50951                 | 50952 | 50953            | 50954             | 50955                   | 50956 | 50957             | 50958         | 50959                   | 50960             | 50961      | 50962 | 50963     | 50964  | 50965          | 50966            | 50967          |
| 2                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 3                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 4                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 5                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 6                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 7                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 8                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 9                                       |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 10                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 11                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 12                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 13                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 14                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 15                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 16                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 17                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 18                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 19                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 20                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 21                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 22                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 23                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 24                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 25                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 26                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 27                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 28                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 29                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 30                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |
| 31                                      |   |  |          |              |              |             |                       |       |                  |                   |                         |       |                   |               |                         |                   |            |       |           |        |                |                  |                |

NO METAL CLEANING WASTE FOR MONTH OF JULY

L MONTHLY MONITORING REPORT TO:  
SECTION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
P.O. BOX 27427  
RICHMOND, NORTH CAROLINA 27611

N N/A  
FACILITY NAME: N/A  
Q NC 0024392223  
REPORT OF 1978  
DISCHARGE POINT  
NUMBER

Q Edward Easterlin  
NAME OF PERSON COLLECTING SAMPLES  
R not certified  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS  
S  
ENTER GEOMETRIC MEAN HERE DO NOT USE  
AN ARITHMETIC MEAN

MAIL WHITE & PINK  
COPIES TO RALEIGH  
RETAIN YELLOW  
COPY FOR FILES

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY, AND/OR FACILITY  
Charlotte  
CITY  
B Larry R. Kimray  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Please Print)  
C II  
GRADE OF CERTIFICATE HELD  
(If not certified, write NONE)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

October 12, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC00024392  
File: MC-704.21

Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for August 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

The Waste Water Collection basin (WWCB) effluent pH at McGuire Nuclear Station exceeded the maximum limitations of 9.0 standard units in August. Our letter of October 19, 1978 to Mr. D. Rex Gleason outlined the history of WWCB and pH fluctuations which appear to be caused by photosynthetic activity.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

xc: J. E. Lansche w/o enclosure  
J. R. Hendricks w/enclosure  
H. R. Denton w/enclosure  
N. A. Rutherford w/enclosure



DISCHARGE MONITORING REPORT (DMR)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|                   |         |                  |         |
|-------------------|---------|------------------|---------|
| (2-16)            |         | (17-19)          |         |
| NC0024392         |         | 002              |         |
| PERMIT NUMBER     |         | DISCHARGE NUMBER |         |
| MONITORING PERIOD |         |                  |         |
| FROM              | 81      | 08               | 01      |
|                   | YEAR    | MO               | DAY     |
|                   | (20-21) | (22-23)          | (24-25) |
| TO                | 81      | 08               | 31      |
|                   | YEAR    | MO               | DAY     |
|                   | (26-27) | (28-29)          | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.4   | 0.8     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 7.45  | 8.90    | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 6.0  | 7.5     | 8.2     | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.1     | 0.1     | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|  |   |  |           |        |      |    |
|--|---|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
| TYPED OR PRINTED                       |   |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|               |  |                  |  |
|---------------|--|------------------|--|
| (2-16)        |  | (17-19)          |  |
| NCO024392     |  | 005              |  |
| PERMIT NUMBER |  | DISCHARGE NUMBER |  |

| MONITORING PERIOD |         |         |         |    |         |         |         |
|-------------------|---------|---------|---------|----|---------|---------|---------|
| FROM              | 81      | 08      | 01      | TO | 81      | 08      | 31      |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) | X                  | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |       | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(46-53) (54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.5   | 4.3     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 8.8   | 9.7     | Std.  |  |         |         |       | 8                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |   |  |           |        |      |    |     |
|---|---|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br>William O. Parker, Jr.<br>V.P. Steam Production<br><br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|   |   |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G AUGUST 1981  
MONTHLY REPORT FORH NC0024392203 (WWCB)  
EFFLUENT I.D. NUMBER

80

| 1                                       | 2  | 3  | 4                   | 5                   | 6           | 7                     | 8   | 9                     | 10                     | 11                | 12       | 13                     | 14                 | 15                           | 16                    | 17   | 18                     | 19            | 20          | 21                  | 22                    | 23                           | 24                                 | 25 | 26 |
|---|--|--|---------------------|---------------------|-------------|-----------------------|-----|-----------------------|------------------------|-------------------|----------|------------------------|--------------------|------------------------------|-----------------------|--|------------------------|---------------|-------------|---------------------|-----------------------|------------------------------|------------------------------------|----|----|
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 24:00 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | WASTEWATER FLOW MGD | WASTEWATER FLOW MGD | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH  | SETTLABLE SOLIDS ML/L | RESIDUAL CHLORINE MG/L | BOODS, 20 °C MG/L | COD MG/L | NITROGEN, AMMONIA MG/L | TOTAL RESIDUE MG/L | TOTAL SUSPENDED RESIDUE MG/L | TOTAL PHOSPHORUS MG/L | OIL & GREASE SEPARATORY FUNNEL EXTRACTION MG/L | FECAL COLIFORM /100 ML | TURBIDITY NTU | COPPER µG/L | TOTAL CHROMIUM µG/L | DISSOLVED OXYGEN MG/L | TOTAL KjELDAHL NITROGEN MG/L | ENTER PARAMETER CODE, NO. AND UNIT |    |    |
| 1                                       |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 2                                       |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 3                                       | 0845                                     |  |                     |                     | 0.99        |                       | 8.8 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 4                                       | 0840                                     |  |                     |                     | 2.30        |                       | 9.3 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 5                                       | 0835                                     |  |                     |                     | 2.01        |                       | 9.7 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 6                                       | 0900                                     |  |                     |                     | 3.23        |                       | 9.6 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 7                                       | 0845                                     |  |                     |                     | 3.76        |                       | 9.0 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 8                                       |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 9                                       |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 10                                      | 0945                                     |  |                     |                     | 3.70        |                       | 9.0 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 11                                      | 0900                                     |  |                     |                     | 3.77        |                       | 9.1 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 12                                      | 0925                                     |  |                     |                     | 4.34        |                       | 8.7 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 13                                      | 0920                                     |  |                     |                     | 2.53        |                       | 8.9 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 14                                      | 1000                                     |  |                     |                     | 3.08        |                       | 9.2 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 15                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 16                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 17                                      | 0855                                     |  |                     |                     | 2.43        |                       | 8.9 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 18                                      | 0927                                     |  |                     |                     | 2.32        |                       | 8.4 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 19                                      | 0845                                     |  |                     |                     | 3.04        |                       | 7.0 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 20                                      | 0930                                     |  |                     |                     | 2.75        |                       | 7.7 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 21                                      | 0900                                     |  |                     |                     | 2.32        |                       | 8.4 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 22                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 23                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 24                                      | 0900                                     |  |                     |                     | 1.58        |                       | 9.6 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 25                                      | 0900                                     |  |                     |                     | 1.58        |                       | 9.3 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 26                                      | 0900                                     |  |                     |                     | 1.46        |                       | 9.2 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 27                                      | 0845                                     |  |                     |                     | 1.66        |                       | 8.7 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 28                                      | 0845                                     |  |                     |                     | 1.64        |                       | 8.2 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 29                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 30                                      |  |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| 31                                      | 0915                                     |  |                     |                     | 2.13        |                       | 7.4 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| L                                       | MONTHLY AVERAGE                          | I  |                     |                     | 2.51        |                       | 8.4 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
|   | MONTHLY MAXIMUM                          | K  |                     |                     | 4.34        |                       | 9.7 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
|   | MONTHLY MINIMUM                          | J  |                     |                     | 0.99        |                       | 7.0 |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |
| M                                       | TYPE OF SAMPLE                           |  |                     |                     |             |                       |     |                       |                        |                   |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |

1 MONTHLY MONITORING REPORT TO:  
SECTION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
RDM, NORTH CAROLINA 27611N N/A  
TREATMENT PLANT NAME, IF APPLICABLEO Amy Best  
NAME OF PERSON COLLECTING SAMPLESP Larry R. Kimray  
CERTIFIED BYQ NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR  
CLASS OF  
FACILITYS not certified  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY AND/OR FACILITY  
CITY Charlotte  
COUNTY Mecklenburg  
C II  
GRADE OF CERTIFICATE FIELD  
(If not certified, write NONE)  
B Larry R. Kimray  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐



(002 Waste Water Treatment)

E. WASTEWATER FLOW  
MEASURED AS: (Check One)  
☐ INFILTRANT  
☐ EFFLUENT

EFFLUENT SAMPLES

G. August 1981  
MONTHLY REPORT FOR

H. NC 0024392213 (WC)  
EFFLUENT I.D. NUMBER

80

| D.                                      |   |  | E.                    |                       |             | F.                    |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
|---|---|--|-----------------------|-----------------------|-------------|-----------------------|-----|----------------------|------------------------|-------------------------------|----------|------------------------|--------------------|------------------------------|-----------------------|--|------------------------|---------------|-------------|---------------------|-----------------------|------------------------------|------------------------------------|----|----|--|--|--|--|--|--|
| 1                                       | 2                                       | 3  | 4                     | 5                     | 6           | 7                     | 8   | 9                    | 10                     | 11                            | 12       | 13                     | 14                 | 15                           | 16                    | 17   | 18                     | 19            | 20          | 21                  | 22                    | 23                           | 24                                 | 25 | 26 |  |  |  |  |  |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME FROM GRAB SAMPLE WAS COLLECTED IN HOURS | WASTEWATER FLOW - MGD | WASTEWATER FLOW - MGD | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH  | SETTLABLE WATER ML/L | RESIDUAL CHLORINE MG/L | BOO <sub>5</sub> , 20 °C MG/L | COD MG/L | NITROGEN, AMMONIA MG/L | TOTAL RESIDUE MG/L | TOTAL SUSPENDED RESIDUE MG/L | TOTAL PHOSPHORUS MG/L | OIL & GREASE SEPARATORY FUNNEL EXTRACTION MG/L | FECAL COLIFORM /100 ML | TURBIDITY NTU | COPPER µg/L | TOTAL CHROMIUM µg/L | DISSOLVED OXYGEN MG/L | TOTAL KJELDAHL NITROGEN MG/L | ENTER PARAMETER CODE, NO. AND UNIT |    |    |  |  |  |  |  |  |
| 1                                       | 0940                                    |  |                       |                       | 0.01        |                       | 8.9 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 2                                       | 0845                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 3                                       | 0845                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 4                                       | 1320                                    |  |                       |                       | 0.33        |                       | 6.9 |                      |                        |                               |          |                        |                    | 7.5                          |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 5                                       | 0830                                    |  |                       |                       | 0.45        |                       | 7.0 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 6                                       | 1155                                    |  |                       |                       | 0.11        |                       | 7.4 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 7                                       | 0830                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 8                                       | 0845                                    |  |                       |                       | 0.51        |                       | 7.4 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 9                                       | 0925                                    |  |                       |                       | 0.64        |                       | 8.4 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 10                                      | 0945                                    |  |                       |                       | 0.53        |                       | 8.5 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 11                                      | 0900                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 12                                      | 0925                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 13                                      | 0900                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 14                                      | 1000                                    |  |                       |                       | 0.40        |                       | 8.3 |                      |                        |                               |          |                        |                    | 8.0                          |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 15                                      | 0930                                    |  |                       |                       | 0.66        |                       | 7.1 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 16                                      | 0920                                    |  |                       |                       | 0.59        |                       | 7.5 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 17                                      | 0855                                    |  |                       |                       | 0.20        |                       | 7.5 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 18                                      | 1700                                    |  |                       |                       | 0.21        |                       | 8.4 |                      |                        |                               |          |                        |                    | 6.0                          |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 19                                      | 0835                                    |  |                       |                       | 0.73        |                       | 6.7 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 20                                      | 0930                                    |  |                       |                       | 0.78        |                       | 7.4 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 21                                      | 0900                                    |  |                       |                       | 0.34        |                       | 8.4 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 22                                      | 0900                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 23                                      |   |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 24                                      | 0900                                    |  | NO FLOW               |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 25                                      | 1430                                    |  |                       |                       | 0.29        |                       | 6.6 |                      |                        |                               |          |                        |                    | 8.2                          |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 26                                      | 0900                                    |  |                       |                       | 0.66        |                       | 7.2 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 27                                      | 0845                                    |  |                       |                       | 0.41        |                       | 7.2 |                      |                        |                               |          |                        |                    | 7.8                          |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 28                                      | 0845                                    |  |                       |                       | 0.67        |                       | 6.8 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 29                                      | 0855                                    |  |                       |                       | 0.65        |                       | 6.8 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 30                                      | 0900                                    |  |                       |                       | 0.38        |                       | 6.8 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| 31                                      | 0915                                    |  |                       |                       | 0.24        |                       | 6.8 |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| L MONTHLY AVERAGE                       |   |  |                       |                       | 0.45        |                       | 7.5 |                      |                        |                               |          |                        |                    | 7.5                          |                       | 0.1  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| MONTHLY MAXIMUM                         |   |  |                       |                       | 0.78        |                       | 8.9 |                      |                        |                               |          |                        |                    | 8.2                          |                       | 0.1  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| MONTHLY MINIMUM                         |   |  |                       |                       | 0.01        |                       | 6.6 |                      |                        |                               |          |                        |                    | 6.0                          |                       | 0.1  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| M TYPE OF SAMPLE                        |   |  |                       |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| COMPOSITE                               |   |  |                       |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |
| GRAB                                    |   |  |                       |                       |             |                       |     |                      |                        |                               |          |                        |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                    |    |    |  |  |  |  |  |  |

A. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Heckenburg  
CITY Charlotte  
B. NAME OF RESPONSIBLE OPERATOR IN CHARGE Larry R. Kimray  
C. GRADE OF CERTIFICATE FIELD 11  
IF THE RESPONSIBLE OPERATOR IN CHARGE HAS CHANGED SINCE THE PREVIOUS REPORT PLEASE CHECK THIS BLOCK ☐

I. MONTHLY MONITORING REPORT TO  
DIVISION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
P.O. BOX 27687  
RALEIGH, NORTH CAROLINA 27611

N. TREATMENT PLANT NAME, IF APPLICABLE N/A

O. NAME OF PERSON COLLECTING SAMPLES Amy Best

P. CERTIFIED BY Larry R. Kimray

Q. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBER

R. CLASS OF  
FACILITY

S. not certified  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEAN

MAIL WHITE & PINK  
COPIES TO RALEIGH  
RETAIN YELLOW  
COPY FOR FILES



DEM FORM MR-11  
REVISED 3-78

E. WASTEWATER FLOW  
MEASURED AS: (Check One)  
☐ INFILTRANT  
☐ EFFLUENT

# EFFLUENT SAMPLES

G. August 19 81  
MONTHLY REPORT FOR

(004 Metal Cleaning Waste)

discharge

H. NC 0024392223 documentation  
EFFLUENT I.D. NUMBER

80

| D.                                      |   |  | E.                  |                     |                     | F.                    |    |                  | G.                               |                          |     | H.                               |               |                         | I.                               |                                    |                | J.                               |        |                | K.                               |                         |  | L.                               |    |  |
|---|---|--|---------------------|---------------------|---------------------|-----------------------|----|------------------|----------------------------------|--------------------------|-----|----------------------------------|---------------|-------------------------|----------------------------------|------------------------------------|----------------|----------------------------------|--------|----------------|----------------------------------|-------------------------|--|----------------------------------|----|--|
| 1                                       | 2                                       | 3  | 4                   | 5                   | 6                   | 7                     | 8  | 9                | 10                               | 11                       | 12  | 13                               | 14            | 15                      | 16                               | 17                                 | 18             | 19                               | 20     | 21             | 22                               | 23                      | 24                                     | 25                               | 26 |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | WASTEWATER FLOW MGD | WASTEWATER FLOW MGD | WASTEWATER FLOW MGD | TEMPERATURE (CELSIUS) | PH | SETTLABLE MATTER | RESIDUAL CHLORINE                | BOD <sub>5</sub> , 20 °C | COD | NITROGEN AMMONIA                 | TOTAL RESIDUE | TOTAL SUSPENDED RESIDUE | TOTAL PHOSPHORUS                 | OIL & GREASE LABORATORY EXTRACTION | FECAL COLIFORM | TURBIDITY                        | COPPER | TOTAL CHROMIUM | DISSOLVED OXYGEN                 | TOTAL KJELDAHL NITROGEN | UNTESTED PARAMETERS (CODE NO. ANALYST) |                                  |    |  |
| 1                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 2                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 3                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 4                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 5                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 6                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 7                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 8                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 9                                       |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 10                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 11                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 12                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 13                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 14                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 15                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 16                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 17                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 18                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 19                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 20                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 21                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 22                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 23                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 24                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 25                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 26                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 27                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 28                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 29                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 30                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| 31                                      |   |  |                     |                     |                     |                       |    |                  |                                  |                          |     |                                  |               |                         |                                  |                                    |                |                                  |        |                |                                  |                         |  |                                  |    |  |
| L. MONTHLY AVERAGE                      |   |  | I.                  |                     |                     | J.                    |    |                  | K.                               |                          |     | L.                               |               |                         | M.                               |                                    |                | N.                               |        |                | O.                               |                         |  | P.                               |    |  |
| MONTHLY MAXIMUM                         |   |  | K.                  |                     |                     | L.                    |    |                  | M.                               |                          |     | N.                               |               |                         | O.                               |                                    |                | P.                               |        |                | Q.                               |                         |  | R.                               |    |  |
| MONTHLY MINIMUM                         |   |  | J.                  |                     |                     | K.                    |    |                  | L.                               |                          |     | M.                               |               |                         | N.                               |                                    |                | O.                               |        |                | P.                               |                         |  | Q.                               |    |  |
| M. TYPE OF SAMPLE                       |   |  | COMPOSITE           |                     |                     | GRAB                  |    |                  | H. MONTHLY MONITORING REPORT TO: |                          |     | S. MONTHLY MONITORING REPORT TO: |               |                         | T. MONTHLY MONITORING REPORT TO: |                                    |                | U. MONTHLY MONITORING REPORT TO: |        |                | V. MONTHLY MONITORING REPORT TO: |                         |  | W. MONTHLY MONITORING REPORT TO: |    |  |

NO METAL CLEANING FOR MONTH OF AUGUST

A. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY: Mecklenburg  
CITY: Charlotte  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name): Larry R. Kimray  
IF THE RESPONSIBLE OPERATOR IN CHARGE HAS CHANGED SINCE THE PREVIOUS REPORT PLEASE CHECK THIS BLOCK ☐

L. MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
OFFICE BOX 27687  
TIGH, NORTH CAROLINA 27611

N. N/A  
TREATMENT PLANT NAME, IF APPLICABLE

Q. Amy Best  
NAME OF PERSON COLLECTING SAMPLES

R. Larry R. Kimray  
CERTIFIED BY

Q. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBER

R. CLASS OF  
FACILITY

S. not certified  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEAN

MAIL WHITE & PINK  
COPIES TO RALEIGH  
RETAIN YELLOW  
COPY FOR FILES

# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

November 11, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

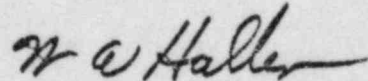
In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for September, 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

McGuire exceeded the minimum pH limit of 6 standard units on its Conventional Wastewater Treatment System (002) in September, 1981. This excursion was documented in our Noncompliance Notification to you dated September 28, 1981.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: J. E. Lansche      w/o enclosure  
J. R. Hendricks      "      "

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|               |  |                  |  |
|---------------|--|------------------|--|
| (2-16)        |  | (17-19)          |  |
| NC0024392     |  | 001              |  |
| PERMIT NUMBER |  | DISCHARGE NUMBER |  |

| MONITORING PERIOD |         |         |    |         |         |         |
|-------------------|---------|---------|----|---------|---------|---------|
| 81                | 09      | 14      | TO | 81      | 09      | 30      |
| YEAR              | MO      | DAY     |    | YEAR    | MO      | DAY     |
| (20-21)           | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) | X                  | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |       | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(46-53) (54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 1057.4mm  | 1248.5  | MGD   |  |         |         |       |                      | 1/Hr                                   | Pump Log                  |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| Discharge Temp.      | SAMPLE MEASUREMENT | 77.4  | 82.6    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 95      | F     |  |         |         |       |                      |  |                           |
| Temp. Change         | SAMPLE MEASUREMENT | 0.7   | 0.4     | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 5       | F     |  |         |         |       |                      |  |                           |
| In Lake Temp.        | SAMPLE MEASUREMENT | 78.2  | 82.2    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT | 90°   |         | F     |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|  |  |  |           |        |      |    |     |
|--|--|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V. P. Steam Production</u><br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. §1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|  |  |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NAME Duke Power Company

ADDRESS P. O. Box 33189

Charlotte, N. C. 28242

FACILITY McGuire Nuclear Station

LOCATION Cornellus, N.C.

DISCHARGE MONITORING REPORT (DMR)

(2-16)  
N00004392  
PERMIT NUMBER

(17-19)  
002  
DISCHARGE NUMBER

MONITORING PERIOD

|         |         |         |    |         |         |         |
|---------|---------|---------|----|---------|---------|---------|
| 81      | 09      | 01      | TO | 81      | 09      | 30      |
| YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
| (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   | X                  | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |       | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.4   | 0.7     | MCD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 7.1   | 8.7     | Std.  |  |         |         |       | 1                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 1.3  | 6.8     | 10.7    | mg/l  | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |       |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.6     | 1.0     | mg/l  | 0                    | 2/no                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|   |   |  |           |      |    |     |
|---|---|--|-----------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>V. P. Steam Production</u> | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE |    |     |
| TYPED OR PRINTED  |   | AREA CODE  | NUMBER    | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



PERMITTEE NAME/ADDRESS (Include  
Facility Name/Location if different)  
P. O. Box 33180

NAME P. O. Box 33180  
ADDRESS Charlotte, N. C. 28242

McGuire Nuclear Station

FACILITY Cornelius, N. C.

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

NC00024392 (12-16) 005 (17-19)  
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD  
FROM 81 09 01 TO 81 09 30  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) | X                     | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|-----------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                       | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE<br>MEASUREMENT | 2.9   | 5.7     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE<br>MEASUREMENT | 7.5   | 9.5     | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                      | PERMIT<br>REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE<br>MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT<br>REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|  |   |   |              |        |      |    |
|--|---|---|--------------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOW-<br>INGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR<br>SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING<br>WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL<br>OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penal-<br>ties under these statutes may be fines up to \$10,000 and/or maximum<br>imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE<br>OFFICER OR AUTHORIZED AGENT | TELEPHONE    | DATE   |      |    |
| TYPED OR PRINTED                       |   |   | AREA<br>CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☒ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G. September 1981  
MONTHLY REPORT FORH. NC 0024392203 (WWCB)  
EFFLUENT I.D. NUMBER

80

| D.   |   | E.  |                                    |                                    | F.                    |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
|--|---|---|------------------------------------|------------------------------------|-----------------------|--------------------------|-----|-----------------------------|------------------------------|----------------------------------|-------------|------------------------------|--------------------------|---------------------------------------|-----------------------------|--|-----------------------------|------------------|----------------|---------------------------|-----------------------------|---------------------------------------|----------------------------------|----|----|--|--|--|--|--|
| 1  | 2   | 3   | 4                                  | 5                                  | 6                     | 7                        | 8   | 9                           | 10                           | 11                               | 12          | 13                           | 14                       | 15                                    | 16                          | 17   | 18                          | 19               | 20             | 21                        | 22                          | 23                                    | 24                               | 25 | 26 |  |  |  |  |  |
| DATE GRAB OR<br>COMPOSITE<br>SAMPLE<br>COLLECTED | GRAB SAMPLE<br>COLLECTION<br>TIME, 2400 CLOCK | LENGTH OF TIME<br>COMPOSITE SAMPLE<br>WAS COLLECTED<br>IN HOURS | WASTEWATER FLOW<br>MAXIMUM<br>RATE | WASTEWATER FLOW<br>MINIMUM<br>RATE | DAILY<br>TOTAL<br>MGD | TEMPERATURE<br>(CELSIUS) | pH  | SETTLABLE<br>MATTER<br>ML/L | RESIDUAL<br>CHLORINE<br>MG/L | BOD <sub>5</sub> , 20 °C<br>MG/L | COD<br>MG/L | NITROGEN,<br>AMMONIA<br>MG/L | TOTAL<br>RESIDUE<br>MG/L | TOTAL<br>SUSPENDED<br>RESIDUE<br>MG/L | TOTAL<br>PHOSPHORUS<br>MG/L | OIL & GREASE<br>SEPARATORY<br>FACILITY<br>EXTRACTION<br>MG/L | FECAL<br>COLIFORM<br>100 ML | TURBIDITY<br>NTU | COPPER<br>MG/L | TOTAL<br>CHROMIUM<br>MG/L | DISSOLVED<br>OXYGEN<br>MG/L | TOTAL<br>KJELDAHL<br>NITROGEN<br>MG/L | ENTER PARAMETER CODE, INC. MODEL |    |    |  |  |  |  |  |
| 1  | 0900  |   |                                    |                                    | 2.32                  |                          | 8.1 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 2  | 0900  |   |                                    |                                    | 2.08                  |                          | 8.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 3  | 0855  |   |                                    |                                    | 1.84                  |                          | 6.9 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 4  | 0840  |   |                                    |                                    | 1.81                  |                          | 8.2 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 5  |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 6  |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 7  | 0850  |   |                                    |                                    | 4.91                  |                          | 7.3 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 8  | 0850  |   |                                    |                                    | 5.02                  |                          | 7.7 |                             |                              |                                  |             |                              |                          | 5.7                                   |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 9  | 0910  |   |                                    |                                    | 5.01                  |                          | 7.7 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 10   | 0840  |   |                                    |                                    | 2.01                  |                          | 7.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 11   | 0845  |   |                                    |                                    | 3.24                  |                          | 7.6 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 12   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 13   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 14   | 0830  |   |                                    |                                    | 2.12                  |                          | 8.0 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 15   | 0900  |   |                                    |                                    | 1.93                  |                          | 7.0 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 16   | 0900  |   |                                    |                                    | 2.60                  |                          | 7.2 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 17   | 0900  |   |                                    |                                    | 1.92                  |                          | 7.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 18   | 0845  |   |                                    |                                    | 1.80                  |                          | 7.4 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 19   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 20   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 21   | 0930  |   |                                    |                                    | 1.87                  |                          | 7.4 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 22   | 0845  |   |                                    |                                    | 2.10                  |                          | 7.4 |                             |                              |                                  |             |                              |                          | 6.5                                   |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 23   | 0845  |   |                                    |                                    | 3.67                  |                          | 6.9 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 24   | 0855  |   |                                    |                                    | 4.34                  |                          | 7.7 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 25   | 0845  |   |                                    |                                    | 3.11                  |                          | 7.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 26   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 27   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 28   | 0835  |   |                                    |                                    | 2.03                  |                          | 7.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 29   | 0840  |   |                                    |                                    | 2.51                  |                          | 7.7 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 30   | 0840  |   |                                    |                                    | 5.65                  |                          | 7.0 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| 31   |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| L. MONTHLY AVERAGE                               |   | /   |                                    |                                    | 2.90                  |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| MONTHLY MAXIMUM                                  |   | K   |                                    |                                    | 5.65                  |                          | 8.5 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| MONTHLY MINIMUM                                  |   | J   |                                    |                                    | 1.80                  |                          | 6.9 |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |
| M. TYPE OF SAMPLE                                |   |   |                                    |                                    |                       |                          |     |                             |                              |                                  |             |                              |                          |                                       |                             |  |                             |                  |                |                           |                             |                                       |                                  |    |    |  |  |  |  |  |

1. MONTHLY MONITORING REPORT TO:  
SICION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
Raleigh, NORTH CAROLINA 27611N. TREATMENT PLANT NAME, IF APPLICABLE  
N/AO. Jeff Benson  
NAME OF PERSON COLLECTING SAMPLESP. Larry R. Kimray  
CERTIFIED BYQ. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR.  
CLASS OF  
FACILITY

S. NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Hecklenburg  
C. GRADE OF CERTIFICATE FIELD  
II  
B. NAME OF RESPONSIBLE OPERATOR IN CHARGE  
Larry R. Kimray  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐  
CITY Charlotte

DEN FORM MR-11  
REVISED 3-78E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☒ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G September 1981  
MONTHLY REPORT FORHNC 0024392213 (WC)  
EFFLUENT I.D. NUMBER

80

| D.                                      |   |  | E.                                 |              |             | F.                    |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
|---|---|--|------------------------------------|--------------|-------------|-----------------------|-----|-----------------------|------------------------|-------------------------------|----------|------------------------|--------------------|------------------------------|-----------------------|------------------------------------|------------------------|---------------|-------------|---------------------|-----------------------|------------------------------|----------------------------------|----|----|--|--|--|--|--|--|
| 1                                       | 2                                       | 3  | 4                                  | 5            | 6           | 7                     | 8   | 9                     | 10                     | 11                            | 12       | 13                     | 14                 | 15                           | 16                    | 17                                 | 18                     | 19            | 20          | 21                  | 22                    | 23                           | 24                               | 25 | 26 |  |  |  |  |  |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | MAXIMUM RATE WASTEWATER FLOW - MGD | MINIMUM RATE | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH  | SETTLABLE MATTER ML/L | RESIDUAL CHLORINE MG/L | BOD <sub>5</sub> , 20 °C MG/L | COD MG/L | NITROGEN, AMMONIA MG/L | TOTAL RESIDUE MG/L | TOTAL SUSPENDED RESIDUE MG/L | TOTAL PHOSPHORUS MG/L | SOIL & GREASE SEPARATORY EXTRACTOR | FECAL COLIFORM /100 ML | TURBIDITY NTU | COPPER µG/L | TOTAL CHROMIUM µG/L | DISSOLVED OXYGEN MG/L | TOTAL KJELDAHL NITROGEN MG/L | ENTER PARAMETER CODE (NO. ABOVE) |    |    |  |  |  |  |  |  |
| 1                                       | 1155                                    |  |                                    |              | 0.34        |                       | 6.3 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 2                                       | 0900                                    |  |                                    |              | 0.67        |                       | 6.5 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 3                                       | 0855                                    |  |                                    |              | 0.69        |                       | 6.9 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 4                                       | 0840                                    |  |                                    |              | 0.72        |                       | 7.0 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 5                                       | 0845                                    |  |                                    |              | 0.38        |                       | 7.0 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 6                                       | 1115                                    |  |                                    |              | 0.09        |                       | 6.5 |                       |                        |                               |          |                        |                    | 4.2                          |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 7                                       | 0850                                    |  |                                    |              | 0.64        |                       | 6.4 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 8                                       | 0850                                    |  |                                    |              | 0.51        |                       | 6.5 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 9                                       | 0910                                    |  |                                    |              | 0.51        |                       | 6.9 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 10                                      | 0840                                    |  |                                    |              | 0.27        |                       | 7.1 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 11                                      | 0845                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 12                                      | 0900                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 13                                      | 0930                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 14                                      | 0830                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 15                                      | 0900                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 16                                      | 0900                                    |  |                                    |              | 0.13        |                       | 7.6 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 17                                      | 1015                                    |  |                                    |              | 0.40        |                       | 7.3 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 18                                      | 0845                                    |  |                                    |              | 0.37        |                       | 7.7 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 19                                      | 1220                                    |  |                                    |              | 0.31        |                       | 8.0 |                       |                        |                               |          |                        |                    | 10.7                         |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 20                                      | 1030                                    |  |                                    |              | 0.28        |                       | 8.7 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 21                                      | 0915                                    |  |                                    |              | 0.40        |                       | 6.6 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 22                                      | 1015                                    |  |                                    |              | 0.28        |                       | 5.6 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 23                                      | 0845                                    |  |                                    |              | 0.15        |                       | 7.0 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 24                                      | 0845                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 25                                      | 0845                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 26                                      | 1145                                    |  |                                    |              | 0.37        |                       | 6.6 |                       |                        |                               |          |                        |                    | 1.3                          |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 27                                      | 0935                                    |  |                                    |              | 0.72        |                       | 6.6 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 28                                      | 0840                                    |  |                                    |              | 0.73        |                       | 8.3 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 29                                      | 0840                                    |  |                                    |              | 0.42        |                       | 8.3 |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 30                                      | 0830                                    |  |                                    |              | NO FLOW     |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| 31                                      |   |  |                                    |              |             |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| L MONTHLY AVERAGE                       |   |  |                                    |              | 0.43        |                       |     |                       |                        |                               |          |                        |                    | 6.8                          |                       | 0.6                                |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| MONTHLY MAXIMUM                         |   |  |                                    |              | 0.73        |                       | 8.7 |                       |                        |                               |          |                        |                    | 10.7                         |                       | 1.0                                |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| MONTHLY MINIMUM                         |   |  |                                    |              | 0.09        |                       | 5.6 |                       |                        |                               |          |                        |                    | 1.3                          |                       | 0.1                                |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |
| M TYPE OF SAMPLE                        |   |  |                                    |              |             |                       |     |                       |                        |                               |          |                        |                    |                              |                       |                                    |                        |               |             |                     |                       |                              |                                  |    |    |  |  |  |  |  |  |

1 MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
IGH, NORTH CAROLINA 27611N N/A  
TREATMENT PLANT NAME, IF APPLICABLEQ Jeff Benson  
NAME OF PERSON COLLECTING SAMPLESR Larry R. Kimray  
CERTIFIED BYQ NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR  
CLASS OF  
FACILITYS  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILES

A MONTHLY REPORT FOR MUNICIPALITY, INDUSTRY, AND/OR FACILITY

Mecklenburg

DPC McGuire Nuclear Station

CITY Charlotte

B NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)

Larry R. Kimray

C GRADE OF CERTIFICATE HELD

II

IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐



E WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G September 1981  
MONTHLY REPORT FORHNC 0024392223  
EFFLUENT I.D. NUMBER

80

| 1  | 2   | 3   | 4               | 5               | 6              | 7                        | 8  | 9                   | 10                   | 11                       | 12  | 13                   | 14               | 15                            | 16                  | 17   | 18                | 19        | 20     | 21                | 22                  | 23                           | 24                              | 25 | 26 |  |  |  |
|--|---|---|-----------------|-----------------|----------------|--------------------------|----|---------------------|----------------------|--------------------------|-----|----------------------|------------------|-------------------------------|---------------------|--|-------------------|-----------|--------|-------------------|---------------------|------------------------------|---------------------------------|----|----|--|--|--|
| DATE GRAB OR<br>COMPOSITE<br>SAMPLE<br>COLLECTED | GRAB SAMPLE<br>COLLECTION<br>TIME, 2400 CLOCK | LENGTH OF TIME<br>COMPOSITE SAMPLE<br>WAS COLLECTED<br>IN HOURS | MAXIMUM<br>RATE | MINIMUM<br>RATE | DAILY<br>TOTAL | TEMPERATURE<br>(CELSIUS) | pH | SETTLABLE<br>MATTER | RESIDUAL<br>CHLORINE | BOO <sub>5</sub> , 20 °C | COD | NITROGEN,<br>AMMONIA | TOTAL<br>RESIDUE | TOTAL<br>SUSPENDED<br>RESIDUE | TOTAL<br>PHOSPHORUS | OIL & GREASE<br>SEPARATORY<br>FURNEL<br>EXTRACTION | FECAL<br>COLIFORM | TURBIDITY | COPPER | TOTAL<br>CHROMIUM | DISSOLVED<br>OXYGEN | TOTAL<br>KELDAHL<br>NITROGEN | WATER TREATMENT CODE, TWO ABOVE |    |    |  |  |  |
| 1  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 2  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 3  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 4  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 5  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 6  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 7  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 8  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 9  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 10   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 11   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 12   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 13   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 14   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 15   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 16   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 17   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 18   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 19   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 20   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 21   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 22   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 23   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 24   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 25   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 26   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 27   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 28   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 29   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 30   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| 31   |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| L MONTHLY AVERAGE                                |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| MONTHLY MAXIMUM                                  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| MONTHLY MINIMUM                                  |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |
| M TYPE OF SAMPLE                                 |   |   |                 |                 |                |                          |    |                     |                      |                          |     |                      |                  |                               |                     |  |                   |           |        |                   |                     |                              |                                 |    |    |  |  |  |

NO METAL CLEANING FOR MONTH OF  
SEPTEMBER 19811 MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
OFFICE BOX 27687  
Raleigh, NORTH CAROLINA 27611

N N/A

TREATMENT PLANT NAME, IF APPLICABLE

Q NC 0024392

PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR CLASS OF  
FACILITY

Q NAME OF PERSON COLLECTING SAMPLES

S NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

CERTIFIED BY

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY: INDUSTRY AND/OR FACILITY  
COUNTY: Hecklenburg  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name): Larry R. Kimray  
CITY: Charlotte  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐



# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 2178

TELEPHONE: AREA 704  
373-4011

December 8, 1981

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

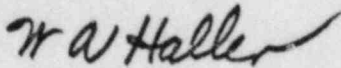
Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for October, 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC0024392  
PERMIT NUMBER  
(17-19) 001  
DISCHARGE NUMBER

MONITORING PERIOD  
FROM 81 10 01 TO 81 10 31  
YEAR MO DAY YEAR MO DAY  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(38-45) |         |         | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|-------------------------------------|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |                                     |                           |
| Flow                 | SAMPLE MEASUREMENT | 1056  | 1248    | MGD   |  |         |         |                      | 1/Hr                                | Pump Lo                   |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |                                     |                           |
| Discharge Temp.      | SAMPLE MEASUREMENT | 68.1  | 75.9    | DEG   |  |         |         | 0                    | 1/Hr                                | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 95      | F     |  |         |         |                      |                                     |                           |
| Temp. Change         | SAMPLE MEASUREMENT | -1.2  | -0.4    | DEG.  |  |         |         | 0                    | 1/Hr                                | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 5       | F     |  |         |         |                      |                                     |                           |
| Inlake Temp.         | SAMPLE MEASUREMENT | 67.3  | 74.3    | DEG   |  |         |         | 0                    | 1/Hr                                | Cont.                     |
|                      | PERMIT REQUIREMENT | 90°   |         | F     |  |         |         |                      |                                     |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |                                     |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |                                     |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |                                     |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |                                     |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |                                     |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |                                     |                           |

|  |   |  |           |        |      |    |     |
|--|---|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br>William O. Parker, Jr.<br>V. P. Steam Production<br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|  |   |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Fower Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|                     |         |                  |         |    |         |         |         |
|---------------------|---------|------------------|---------|----|---------|---------|---------|
| (2-16)<br>NC0024392 |         | (17-19)<br>002   |         |    |         |         |         |
| PERMIT NUMBER       |         | DISCHARGE NUMBER |         |    |         |         |         |
| MONITORING PERIOD   |         |                  |         |    |         |         |         |
| FROM                | 81      | 10               | 01      | TO | 81      | 10      | 31      |
|                     | YEAR    | MO               | DAY     |    | YEAR    | MO      | DAY     |
|                     | (20-21) | (22-23)          | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>(46-53) QUANTITY OR LOADING<br>(54-61) |         |       | (4 Card Only)<br>(38-45) QUALITY OR CONCENTRATION<br>(46-53) |         |         | NO.<br>EX<br>(52-53) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.4   | 0.7     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 6.9   | 8.1     | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 2.9  | 4.6     | 10.1    | 0                    | 1/1                                    | GP                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.1  | 0.2     | 0.3     | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
William O. Parker, Jr.  
V. P. Steam Production  
TYPED OR PRINTED

THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

|           |        |      |    |     |
|-----------|--------|------|----|-----|
| TELEPHONE |        | DATE |    |     |
| AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

(2-16) NC0024392  
PERMIT NUMBER  
(17-19) 005  
DISCHARGE NUMBER

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

MONITORING PERIOD  
FROM 

|      |    |     |
|------|----|-----|
| 81   | 10 | 01  |
| YEAR | MO | DAY |

 (20-21) (22-23) (24-25) TO 

|      |    |     |
|------|----|-----|
| 81   | 10 | 31  |
| YEAR | MO | DAY |

 (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.4   | 4.3     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 7.4   | 8.7     | Std.  |  |         |         |       | 0                    | 1/7                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

|  |   |  |           |      |    |
|--|---|--|-----------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V. P. Steam Production</u> | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE |    |
| AREA CODE  |   |  | NUMBER    | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



DEM FORM MR-1.1  
REVISED 3-78

E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

EFFLUENT SAMPLES

G October 19 81  
MONTHLY REPORT FOR

H NC 0024392203 (WWCB)  
EFFLUENT I.D. NUMBER

80

| 1                                       | 2                                       | 3  | 4  | 5  | 6  | 7                     | 8   | 9                     | 10                     | 11                            | 12       | 13                     | 14                 | 15                           | 16                    | 17  | 18                     | 19            | 20          | 21                  | 22                    | 23                           | 24 | 25 | 26 |
|---|---|--|--|--|--|-----------------------|-----|-----------------------|------------------------|-------------------------------|----------|------------------------|--------------------|------------------------------|-----------------------|---|------------------------|---------------|-------------|---------------------|-----------------------|------------------------------|----|----|----|
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | WASTEWATER FLOW - MGD<br>MAXIMUM RATE<br>MINIMUM RATE<br>DAILY TOTAL | WASTEWATER FLOW - MGD<br>MAXIMUM RATE<br>MINIMUM RATE<br>DAILY TOTAL | WASTEWATER FLOW - MGD<br>MAXIMUM RATE<br>MINIMUM RATE<br>DAILY TOTAL | TEMPERATURE (CELSIUS) | pH  | SETTLABLE MATTER ML/L | RESIDUAL CHLORINE MG/L | BOO <sub>5</sub> , 20 °C MG/L | COD MG/L | NITROGEN, AMMONIA MG/L | TOTAL RESIDUE MG/L | TOTAL SUSPENDED RESIDUE MG/L | TOTAL PHOSPHORUS MG/L | COIL & GREASE SEPARATORY FENNEL EXTRACTION MG/L | FECAL COLIFORM /100 ML | TURBIDITY NTU | COPPER µg/L | TOTAL CHROMIUM µg/L | DISSOLVED OXYGEN MG/L | TOTAL KJELDAHL NITROGEN MG/L |    |    |    |
| 1                                       | 0830                                    |  |  |  | 4.34   |                       | 7.3 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 2                                       | 0900                                    |  |  |  | 2.53   |                       | 7.6 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 3                                       |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 4                                       |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 5                                       | 0900                                    |  |  |  | 2.55   |                       | 7.0 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 6                                       | 0900                                    |  |  |  | 2.39   |                       | 7.2 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 7                                       | 0855                                    |  |  |  | 3.42   |                       | 7.1 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 8                                       | 1000                                    |  |  |  | 2.12   |                       | 6.9 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 9                                       | 0915                                    |  |  |  | 2.50   |                       | 7.5 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 10                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 11                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 12                                      | 0840                                    |  |  |  | 1.93   |                       | 6.9 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 13                                      | 0830                                    |  |  |  | 3.24   |                       | 7.7 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 14                                      | 0830                                    |  |  |  | 3.24   |                       | 6.8 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 15                                      | 0900                                    |  |  |  | 2.32   |                       | 7.9 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 16                                      | 0850                                    |  |  |  | 1.93   |                       | 8.7 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 17                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 18                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 19                                      | 0835                                    |  |  |  | 2.44   |                       | 7.6 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 20                                      | 0845                                    |  |  |  | 1.75   |                       | 7.5 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 21                                      | 0905                                    |  |  |  | 1.65   |                       | 7.4 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 22                                      | 0920                                    |  |  |  | 1.65   |                       | 8.2 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 23                                      | 0855                                    |  |  |  | 1.61   |                       | 8.3 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 24                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 25                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 26                                      | 0923                                    |  |  |  | 4.27   |                       | 7.5 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 27                                      | 0940                                    |  |  |  | 5.66   |                       | 7.1 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 28                                      | 0903                                    |  |  |  | 3.32   |                       | 7.1 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 29                                      | 0935                                    |  |  |  | 4.34   |                       | 7.1 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 30                                      | 0845                                    |  |  |  | 4.34   |                       | 7.0 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| 31                                      |   |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| L MONTHLY AVERAGE                       | I                                       |  |  |  | 2.40   |                       | 7.3 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| MONTHLY MAXIMUM                         | K                                       |  |  |  | 4.34   |                       | 7.7 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| MONTHLY MINIMUM                         | J                                       |  |  |  | 1.61   |                       | 6.8 |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
| M TYPE OF SAMPLE                        | COMPOSITE                               |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |
|   | GRAB                                    |  |  |  |  |                       |     |                       |                        |                               |          |                        |                    |                              |                       |   |                        |               |             |                     |                       |                              |    |    |    |

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
Municipality, Industry and/or Facility  
City Charlotte  
COUNTY Mecklenburg  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)  
Larry R. Kimray  
IF THE RESPONSIBLE OPERATOR IN CHARGE HAS CHANGED SINCE THE PREVIOUS REPORT PLEASE CHECK THIS BLOCK ☐

MAIL WHITE & PINK COPIES TO RALEIGH  
RETAIN YELLOW COPY FOR FILES

I MONTHLY MONITORING REPORT TO:  
SICN OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
Raleigh, NORTH CAROLINA 27611

N N/A  
TREATMENT PLANT NAME, IF APPLICABLE

Q NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBER

R  
CLASS OF  
FACILITY

O B.P. Cliette  
NAME OF PERSON COLLECTING SAMPLES

S  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

Certified by *[Signature]*

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE AN ARITHMETIC MEAN

E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

EFFLUENT SAMPLES

G. October 1981  
MONTHLY REPORT FOR

HNC 0024392213 (WC)  
EFFLUENT I.D. NUMBER

80

| 1                          | 2          | 3                      | 4                   | 5                   | 6                   | 7                | 8   | 9                       | 10                       | 11                            | 12         | 13                      | 14                   | 15                             | 16                      | 17                             | 18                      | 19              | 20            | 21                    | 22                      | 23                             | 24 | 25 | 26 |
|----------------------------|------------|------------------------|---------------------|---------------------|---------------------|------------------|-----|-------------------------|--------------------------|-------------------------------|------------|-------------------------|----------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|-----------------|---------------|-----------------------|-------------------------|--------------------------------|----|----|----|
| DATE (M/D/YR)              | TIME (H/M) | LENGTH OF TIME (HOURS) | WASTEWATER FLOW-MGD | WASTEWATER FLOW-MGD | WASTEWATER FLOW-MGD | TEMPERATURE (°C) | pH  | SETTLABLE MATTER (ML/L) | RESIDUAL CHLORINE (MG/L) | BOO <sub>5</sub> 20 °C (MG/L) | COD (MG/L) | NITROGEN AMMONIA (MG/L) | TOTAL RESIDUE (MG/L) | TOTAL SUSPENDED RESIDUE (MG/L) | TOTAL PHOSPHORUS (MG/L) | OIL & GREASE SEPARATORY (MG/L) | FECAL COLIFORM (100 ML) | TURBIDITY (NTU) | COPPER (UG/L) | TOTAL CHROMIUM (UG/L) | DISSOLVED OXYGEN (MG/L) | TOTAL KJELDAHL NITROGEN (MG/L) |    |    |    |
| 1                          | 0830       |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 2                          | 0900       |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 3                          | 1530       |                        |                     |                     | 0.24                |                  | 6.4 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 4                          | 1145       |                        |                     |                     | 0.67                |                  | 6.4 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 5                          | 0900       |                        |                     |                     | 0.55                |                  | 6.5 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 6                          | 0900       |                        |                     |                     | 0.36                |                  | 6.4 |                         |                          |                               |            |                         |                      | 2.9                            |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 7                          | 0850       |                        |                     |                     | 0.16                |                  | 6.8 |                         |                          |                               |            |                         |                      | 2.6                            |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 8                          | 1520       |                        |                     |                     | 0.25                |                  | 6.5 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 9                          | 0915       |                        |                     |                     | 0.74                |                  | 6.7 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 10                         | 1115       |                        |                     |                     | 0.62                |                  | 6.9 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 11                         | 0900       |                        |                     |                     | 0.35                |                  | 6.4 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 12                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 13                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 14                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 15                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 16                         | 1155       |                        |                     |                     | 0.32                |                  | 6.7 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 17                         | 0900       |                        |                     |                     | 0.66                |                  | 6.9 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 18                         | 0830       |                        |                     |                     | 0.54                |                  | 7.2 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 19                         | 0835       |                        |                     |                     | 0.13                |                  | 7.6 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 20                         | 1435       |                        |                     |                     | 0.27                |                  | 6.8 |                         |                          |                               |            |                         |                      | 3.2                            |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 21                         | 0905       |                        |                     |                     | 0.66                |                  | 6.7 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 22                         | 0920       |                        |                     |                     | 0.56                |                  | 7.1 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 23                         | 0855       |                        |                     |                     | 0.31                |                  | 7.8 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 24                         | 0940       |                        |                     |                     | 0.17                |                  | 8.1 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 25                         | 1455       |                        |                     |                     | 0.26                |                  | 7.1 |                         |                          |                               |            |                         |                      | 3.3                            |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 26                         | 0923       |                        |                     |                     | 0.67                |                  | 6.8 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 27                         | 0940       |                        |                     |                     | 0.48                |                  | 6.4 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 28                         | 0903       |                        |                     |                     | 0.73                |                  | 6.7 |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 29                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 30                         |            |                        | NO FLOW             |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| 31                         | 1126       |                        |                     |                     | 0.27                |                  | 6.8 |                         |                          |                               |            |                         |                      | 10.1                           |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| L MONTHLY AVERAGE          |            |                        |                     |                     | 0.43                |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| MONTHLY MAXIMUM            |            |                        |                     |                     | 0.74                |                  | 8.1 |                         |                          |                               |            |                         |                      | 10.1                           |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| MONTHLY MINIMUM            |            |                        |                     |                     | 0.13                |                  | 6.4 |                         |                          |                               |            |                         |                      | 2.9                            |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |
| M TYPE OF COMPOSITE SAMPLE |            |                        |                     |                     |                     |                  |     |                         |                          |                               |            |                         |                      |                                |                         |                                |                         |                 |               |                       |                         |                                |    |    |    |

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Mecklenburg CITY Charlotte  
GRADE OF CERTIFICATE II  
NAME OF RESPONSIBLE OPERATOR IN CHARGE LARRY R. KIMRAY  
IF THE RESPONSIBLE OPERATOR IN CHARGE HAS CHANGED SINCE THE PREVIOUS REPORT PLEASE CHECK THIS BLOCK ☐

L MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
RICH, NORTH CAROLINA 27611

N. N/A  
TREATMENT PLANT NAME, IF APPLICABLE

O. B.P. Cliette  
NAME OF PERSON COLLECTING SAMPLES

Q. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBER

R.   
CLASS OF  
FACILITY

S.   
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEAN

MAIL WHITE & PINK  
COPIES TO RALEIGH

RETAIN YELLOW  
COPY FOR FILES

(004 Metal Cleaning Waste Discharge Documentation)

DEM FORM MR-11  
REVISED 3-78

E. WASTEWATER FLOW  
MEASURED AS (Check One)  
☐ INFLUENT  
☐ EFFLUENT

EFFLUENT SAMPLES  
MONTHLY REPORT FOR  
October 1981  
H NC 002439223  
EFFLUENT ID NUMBER

80

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY, AND/OR FACILITY  
Mecklenburg COUNTY  
B Larry R. Kimray  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Please Print)  
C II  
GRADE OF CERTIFICATE HELD  
(If not certified, write NONE)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

Charlotte  
CITY

MAIL WHITE & PINK  
COPIES TO RALEIGH  
RETAIN YELLOW  
COPY FOR FILES

| D. | INFLUENT |  |  | EFFLUENT |  |  | F. | MONTHLY REPORT FOR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | G. | H. | I. | J. | K. | L. | M. | N. | O. | P. | Q. | R. | S. | T. | U. | V. | W. | X. | Y. | Z. | AA. | AB. | AC. | AD. | AE. | AF. | AG. | AH. | AI. | AJ. | AK. | AL. | AM. | AN. | AO. | AP. | AQ. | AR. | AS. | AT. | AU. | AV. | AW. | AX. | AY. | AZ. | BA. | BB. | BC. | BD. | BE. | BF. | BG. | BH. | BI. | BJ. | BK. | BL. | BM. | BN. | BO. | BP. | BQ. | BR. | BS. | BT. | BU. | BV. | BW. | BX. | BY. | BZ. | CA. | CB. | CC. | CD. | CE. | CF. | CG. | CH. | CI. | CJ. | CK. | CL. | CM. | CN. | CO. | CP. | CQ. | CR. | CS. | CT. | CU. | CV. | CW. | CX. | CY. | CZ. | DA. | DB. | DC. | DD. | DE. | DF. | DG. | DH. | DI. | DJ. | DK. | DL. | DM. | DN. | DO. | DP. | DQ. | DR. | DS. | DT. | DU. | DV. | DW. | DX. | DY. | DZ. | EA. | EB. | EC. | ED. | EE. | EF. | EG. | EH. | EI. | EJ. | EK. | EL. | EM. | EN. | EO. | EP. | EQ. | ER. | ES. | ET. | EU. | EV. | EW. | EX. | EY. | EZ. | FA. | FB. | FC. | FD. | FE. | FF. | FG. | FH. | FI. | FJ. | FK. | FL. | FM. | FN. | FO. | FP. | FQ. | FR. | FS. | FT. | FU. | FV. | FW. | FX. | FY. | FZ. | GA. | GB. | GC. | GD. | GE. | GF. | GG. | GH. | GI. | GJ. | GK. | GL. | GM. | GN. | GO. | GP. | GQ. | GR. | GS. | GT. | GU. | GV. | GW. | GX. | GY. | GZ. | HA. | HB. | HC. | HD. | HE. | HF. | HG. | HH. | HI. | HJ. | HK. | HL. | HM. | HN. | HO. | HP. | HQ. | HR. | HS. | HT. | HU. | HV. | HW. | HX. | HY. | HZ. | IA. | IB. | IC. | ID. | IE. | IF. | IG. | IH. | II. | IJ. | IK. | IL. | IM. | IN. | IO. | IP. | IQ. | IR. | IS. | IT. | IU. | IV. | IW. | IX. | IY. | IZ. | JA. | JB. | JC. | JD. | JE. | JF. | JG. | JH. | JI. | JJ. | JK. | JL. | JM. | JN. | JO. | JP. | JQ. | JR. | JS. | JT. | JU. | JV. | JW. | JX. | JY. | JZ. | KA. | KB. | KC. | KD. | KE. | KF. | KG. | KH. | KI. | KJ. | KL. | KM. | KN. | KO. | KP. | KQ. | KR. | KS. | KT. | KU. | KV. | KW. | KX. | KY. | KZ. | LA. | LB. | LC. | LD. | LE. | LF. | LG. | LH. | LI. | LJ. | LK. | LL. | LM. | LN. | LO. | LP. | LQ. | LR. | LS. | LT. | LU. | LV. | LW. | LX. | LY. | LZ. | MA. | MB. | MC. | MD. | ME. | MF. | MG. | MH. | MI. | MJ. | MK. | ML. | MN. | MO. | MP. | MQ. | MR. | MS. | MT. | MU. | MV. | MW. | MX. | MY. | MZ. | NA. | NB. | NC. | ND. | NE. | NF. | NG. | NH. | NI. | NJ. | NK. | NL. | NM. | NO. | NP. | NQ. | NR. | NS. | NT. | NU. | NV. | NW. | NX. | NY. | NZ. | OA. | OB. | OC. | OD. | OE. | OF. | OG. | OH. | OI. | OJ. | OK. | OL. | OM. | ON. | OO. | OP. | OQ. | OR. | OS. | OT. | OU. | OV. | OW. | OX. | OY. | OZ. | PA. | PB. | PC. | PD. | PE. | PF. | PG. | PH. | PI. | PJ. | PK. | PL. | PM. | PN. | PO. | PP. | PQ. | PR. | PS. | PT. | PU. | PV. | PW. | PX. | PY. | PZ. | QA. | QB. | QC. | QD. | QE. | QF. | QG. | QH. | QI. | QJ. | QK. | QL. | QM. | QN. | QO. | QP. | QQ. | QR. | QS. | QT. | QU. | QV. | QW. | QX. | QY. | QZ. | RA. | RB. | RC. | RD. | RE. | RF. | RG. | RH. | RI. | RJ. | RK. | RL. | RM. | RN. | RO. | RP. | RQ. | RR. | RS. | RT. | RU. | RV. | RW. | RX. | RY. | RZ. | SA. | SB. | SC. | SD. | SE. | SF. | SG. | SH. | SI. | SJ. | SK. | SL. | SM. | SN. | SO. | SP. | SQ. | SR. | SS. | ST. | SU. | SV. | SW. | SX. | SY. | SZ. | TA. | TB. | TC. | TD. | TE. | TF. | TG. | TH. | TI. | TJ. | TK. | TL. | TM. | TN. | TO. | TP. | TQ. | TR. | TS. | TT. | TU. | TV. | TW. | TX. | TY. | TZ. | UA. | UB. | UC. | UD. | UE. | UF. | UG. | UH. | UI. | UJ. | UK. | UL. | UM. | UN. | UO. | UP. | UQ. | UR. | US. | UT. | UU. | UV. | UW. | UX. | UY. | UZ. | VA. | VB. | VC. | VD. | VE. | VF. | VG. | VH. | VI. | VJ. | VK. | VL. | VM. | VN. | VO. | VP. | VQ. | VR. | VS. | VT. | VU. | VV. | VW. | VX. | VY. | VZ. | WA. | WB. | WC. | WD. | WE. | WF. | WG. | WH. | WI. | WJ. | WK. | WL. | WM. | WN. | WO. | WP. | WQ. | WR. | WS. | WT. | WU. | WV. | WW. | WX. | WY. | WZ. | XA. | XB. | XC. | XD. | XE. | XF. | XG. | XH. | XI. | XJ. | XK. | XL. | XM. | XN. | XO. | XP. | XQ. | XR. | XS. | XT. | XU. | XV. | XW. | XX. | XY. | XZ. | YA. | YB. | YC. | YD. | YE. | YF. | YG. | YH. | YI. | YJ. | YK. | YL. | YM. | YN. | YO. | YP. | YQ. | YR. | YS. | YT. | YU. | YV. | YW. | YX. | YY. | YZ. | ZA. | ZB. | ZC. | ZD. | ZE. | ZF. | ZG. | ZH. | ZI. | ZJ. | ZK. | ZL. | ZM. | ZN. | ZO. | ZP. | ZQ. | ZR. | ZS. | ZT. | ZU. | ZV. | ZW. | ZX. | ZY. | ZZ. | AA. | AB. | AC. | AD. | AE. | AF. | AG. | AH. | AI. | AJ. | AK. | AL. | AM. | AN. | AO. | AP. | AQ. | AR. | AS. | AT. | AU. | AV. | AW. | AX. | AY. | AZ. | BA. | BB. | BC. | BD. | BE. | BF. | BG. | BH. | BI. | BJ. | BK. | BL. | BM. | BN. | BO. | BP. | BQ. | BR. | BS. | BT. | BU. | BV. | BW. | BX. | BY. | BZ. | CA. | CB. | CC. | CD. | CE. | CF. | CG. | CH. | CI. | CJ. | CK. | CL. | CM. | CN. | CO. | CP. | CQ. | CR. | CS. | CT. | CU. | CV. | CW. | CX. | CY. | CZ. | DA. | DB. | DC. | DD. | DE. | DF. | DG. | DH. | DI. | DJ. | DK. | DL. | DM. | DN. | DO. | DP. | DQ. | DR. | DS. | DT. | DU. | DV. | DW. | DX. | DY. | DZ. | EA. | EB. | EC. | ED. | EE. | EF. | EG. | EH. | EI. | EJ. | EK. | EL. | EM. | EN. | EO. | EP. | EQ. | ER. | ES. | ET. | EU. | EV. | EW. | EX. | EY. | EZ. | FA. | FB. | FC. | FD. | FE. | FF. | FG. | FH. | FI. | FJ. | FK. | FL. | FM. | FN. | FO. | FP. | FQ. | FR. | FS. | FT. | FU. | FV. | FW. | FX. | FY. | FZ. | GA. | GB. | GC. | GD. | GE. | GF. | GG. | GH. | GI. | GJ. | GK. | GL. | GM. | GN. | GO. | GP. | GQ. | GR. | GS. | GT. | GU. | GV. | GW. | GX. | GY. | GZ. | HA. | HB. | HC. | HD. | HE. | HF. | HG. | HH. | HI. | HJ. | HK. | HL. | HM. | HN. | HO. | HP. | HQ. | HR. | HS. | HT. | HU. | HV. | HW. | HX. | HY. | HZ. | IA. | IB. | IC. | ID. | IE. | IF. | IG. | IH. | II. | IJ. | IK. | IL. | IM. | IN. | IO. | IP. | IQ. | IR. | IS. | IT. | IU. | IV. | IW. | IX. | IY. | IZ. | JA. | JB. | JC. | JD. | JE. | JF. | JG. | JH. | JI. | JJ. | JK. | JL. | JM. | JN. | JO. | JP. | JQ. | JR. | JS. | JT. | JU. | JV. | JW. | JX. | JY. | JZ. | KA. | KB. | KC. | KD. | KE. | KF. | KG. | KH. | KI. | KJ. | KL. | KM. | KN. | KO. | KP. | KQ. | KR. | KS. | KT. | KU. | KV. | KW. | KX. | KY. | KZ. | LA. | LB. | LC. | LD. | LE. | LF. | LG. | LH. | LI. | LJ. | LK. | LM. | LN. | LO. | LP. | LQ. | LR. | LS. | LT. | LU. | LV. | LW. | LX. | LY. | LZ. | MA. | MB. | MC. | MD. | ME. | MF. | MG. | MH. | MI. | MJ. | MK. | ML. | MN. | MO. | MP. | MQ. | MR. | MS. | MT. | MU. | MV. | MW. | MX. | MY. | MZ. | NA. | NB. | NC. | ND. | NE. | NF. | NG. | NH. | NI. | NJ. | NK. | NL. | NM. | NO. | NP. | NQ. | NR. | NS. | NT. | NU. | NV. | NW. | NX. | NY. | NZ. | OA. | OB. | OC. | OD. | OE. | OF. | OG. | OH. | OI. | OJ. | OK. | OL. | OM. | ON. | OO. | OP. | OQ. | OR. | OS. | OT. | OU. | OV. | OW. | OX. | OY. | OZ. | PA. | PB. | PC. | PD. | PE. | PF. | PG. | PH. | PI. | PJ. | PK. | PL. | PM. | PN. | PO. | PP. | PQ. | PR. | PS. | PT. | PU. | PV. | PW. | PX. | PY. | PZ. | QA. | QB. | QC. | QD. | QE. | QF. | QG. | QH. | QI. | QJ. | QK. | QL. | QM. | QN. | QO. | QP. | QQ. | QR. | QS. | QT. | QU. | QV. | QW. | QX. | QY. | QZ. | RA. | RB. | RC. | RD. | RE. | RF. | RG. | RH. | RI. | RJ. | RK. | RL. | RM. | RN. | RO. | RP. | RQ. | RR. | RS. | RT. | RU. | RV. | RW. | RX. | RY. | RZ. | SA. | SB. | SC. | SD. | SE. | SF. | SG. | SH. | SI. | SJ. | SK. | SL. | SM. | SN. | SO. | SP. | SQ. | SR. | SS. | ST. | SU. | SV. | SW. | SX. | SY. | SZ. | TA. | TB. | TC. | TD. | TE. | TF. | TG. | TH. | TI. | TJ. | TK. | TL. | TM. | TN. | TO. | TP. | TQ. | TR. | TS. | TT. | TU. | TV. | TW. | TX. | TY. | TZ. | UA. | UB. | UC. | UD. | UE. | UF. | UG. | UH. | UI. | UJ. | UK. | UL. | UM. | UN. | UO. | UP. | UQ. | UR. | US. | UT. | UU. | UV. | UW. | UX. | UY. | UZ. | VA. | VB. | VC. | VD. | VE. | VF. | VG. | VH. | VI. | VJ. | VK. | VL. | VM. | VN. | VO. | VP. | VQ. | VR. | VS. | VT. | VU. | VV. | VW. | VX. | VY. | VZ. | WA. | WB. | WC. | WD. | WE. | WF. | WG. | WH. | WI. | WJ. | WK. | WL. | WM. | WN. | WO. | WP. | WQ. | WR. | WS. | WT. | WU. | WV. | WW. | WX. | WY. | WZ. | XA. | XB. | XC. | XD. | XE. | XF. | XG. | XH. | XI. | XJ. | XK. | XL. | XM. | XN. | XO. | XP. | XQ. | XR. | XS. | XT. | XU. | XV. | XW. | XX. | XY. | XZ. | YA. | YB. | YC. | YD. | YE. | YF. | YG. | YH. | YI. | YJ. | YK. | YL. | YM. | YN. | YO. | YP. | YQ. | YR. | YS. | YT. | YU. | YV. | YW. | YX. | YY. | YZ. | ZA. | ZB. | ZC. | ZD. | ZE. | ZF. |
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NO METAL CLEANING FOR MONTH OF

OCTOBER, 1981

L MONTHLY MONITORING REPORT TO:  
DIVISION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
2 OFFICE BOX 2767  
Raleigh, North Carolina 27601

N/A  
TREATMENT PLANT NAME, IF APPLICABLE  
Q NC 0024392  
PERMIT OR NUGS  
DISCHARGE PERMIT  
NUMBER

R CLASS OF  
FACILITY

S NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS  
Q B.P. Clifton  
NAME OF PERSON COLLECTING SAMPLES

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEAN

*P. Kimray*  
CERTIFIED BY



# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 2178

TELEPHONE: AREA 704  
373-4011

January 14, 1982

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

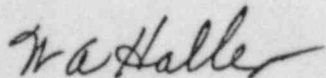
In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for November, 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report forms and the EPA Form 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

McGuire exceeded the maximum pH limit of 9 standard units on its Conventional Wastewater Treatment System (002) in November, 1981. This excursion was documented in our Noncompliance Notification to you dated November 9, 1981.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: J. E. Iansche w/o enclosure  
J. R. Hendricks " "  
N. A. Rutherford w/enclosure  
Harold R. Denton "



# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

January 26, 1982

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

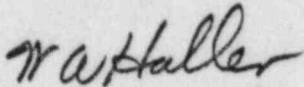
Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

Dear Sir:

Enclosed please find duplicate copies of the November 1981 once through cooling water (001) discharge for the subject station. This page was inadvertently omitted from the monthly report submitted to you on January 14, 1982.

If we can be of further assistance, please advise.

Sincerely,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Duke Power Company  
 ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
 FACILITY McGuire Nuclear Station  
 LOCATION Cornelius, N. C.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

(2-16) NC0024392 (17-19) 001  
 PERMIT NUMBER DISCHARGE NUMBER

Form Approved  
 OMB No. 158-K0073

| MONITORING PERIOD |         |         |         |    |         |         |         |  |
|-------------------|---------|---------|---------|----|---------|---------|---------|--|
| FROM              | 81      | 11      | 01      | TO | 81      | 11      | 30      |  |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |  |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |  |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(38-45) |         |         |       | NO.<br>EX<br>(52-53) | FREQUENCY<br>OF<br>ANALYSIS<br>(54-58) | SAMPLE<br>TYPE<br>(59-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 944.6   | 1211.9  | MGD   |  |         |         |       |                      | 1/Hr                                   | Pump Loc                  |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| Discharge Temp.      | SAMPLE MEASUREMENT | 64.9  | 70.0    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 95      | F     |  |         |         |       |                      |  |                           |
| Temperature Charge   | SAMPLE MEASUREMENT | -1.5  | -0.3    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 5       | F     |  |         |         |       |                      |  |                           |
| Inlake Temperature   | SAMPLE MEASUREMENT | 59.2  | 65.8    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT | 90°   |         | F     |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

William O. Parker, Jr.  
 V.P. Steam Production

TYPED OR PRINTED

THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA  
CODE

NUMBER

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C.  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

|               |  |                  |  |
|---------------|--|------------------|--|
| (2-16)        |  | (17-19)          |  |
| NC00024392    |  | 002              |  |
| PERMIT NUMBER |  | DISCHARGE NUMBER |  |

| MONITORING PERIOD |         |         |         |    |         |         |         |
|-------------------|---------|---------|---------|----|---------|---------|---------|
| FROM              | 81      | 11      | 01      | TO | 81      | 11      | 30      |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(38-45) |         |         | (5 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         | NO.<br>EX<br>(52-53) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS  | MINIMUM | AVERAGE | MAXIMUM              |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.5   | 0.7     | MGD   |  |         |         |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 7.2   | 9.4     | Std.  |  |         |         |  |         |         | 1                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 6.2  | 13.13   | 20.0    | mg/l   |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |  |         |         |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.2  | 0.3     | 0.3     | mg/l   |         |         | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |  |         |         |                      |  |                           |

|   |   |  |           |        |      |    |
|---|---|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER                              | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
| William O. Parker, Jr.<br>V.P. Steam Production<br>TYPED OR PRINTED |   |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC0024392  
PERMIT NUMBER

(17-19) 005  
DISCHARGE NUMBER

MONITORING PERIOD

|      |         |         |         |    |         |         |         |
|------|---------|---------|---------|----|---------|---------|---------|
| FROM | 81      | 11      | 01      | TO | 81      | 11      | 30      |
|      | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|      | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 1.8   | 3.6     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 7.4   | 8.1     | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|  |   |  |           |        |      |    |     |
|--|---|--|-----------|--------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V. P. Steam Production</u><br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |        | DATE |    |     |
|  |   |  | AREA CODE | NUMBER | YEAR | MO | DAY |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



☒ WASTEWATER FLOW  
MEASURED AS: (Check One)  
☐ INFLUENT  
☒ EFFLUENT

## EFFLUENT SAMPLES

G November 1981  
MONTHLY REPORT FORH NC 0024392203 (WWCB)  
EFFLUENT I.D. NUMBER

80

| 1                                       | 2                                       | 3  | 4            | 5            | 6           | 7                     | 8  | 9                | 10                | 11                       | 12  | 13               | 14            | 15                      | 16               | 17   | 18             | 19        | 20     | 21             | 22               | 23                      | 24                              | 25 | 26 |
|---|---|--|--------------|--------------|-------------|-----------------------|----|------------------|-------------------|--------------------------|-----|------------------|---------------|-------------------------|------------------|--|----------------|-----------|--------|----------------|------------------|-------------------------|---------------------------------|----|----|
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | MAXIMUM RATE | MINIMUM RATE | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH | SETTLABLE MATTER | RESIDUAL CHLORINE | BOO <sub>5</sub> , 20 °C | COD | NITROGEN AMMONIA | TOTAL RESIDUE | TOTAL SUSPENDED RESIDUE | TOTAL PHOSPHORUS | SOIL & GREASE SEPARATORY FUNNEL EXTRACTION | FECAL COLIFORM | TURBIDITY | COPPER | TOTAL CHROMIUM | DISSOLVED OXYGEN | TOTAL Kjeldahl Nitrogen | ENTER PARAMETER CODE, NO. ABOVE |    |    |
| 1                                       | 0930                                    |  |              |              | 1.97        | 8.1                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 2                                       | 0930                                    |  |              |              | 1.84        | 7.2                   |    |                  |                   |                          |     |                  |               | 6.0                     |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 3                                       | 0800                                    |  |              |              | 3.64        | 7.2                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 4                                       | 0900                                    |  |              |              | 2.75        | 7.3                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 5                                       | 0845                                    |  |              |              | 2.00        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 6                                       |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 7                                       |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 8                                       |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 9                                       | 0850                                    |  |              |              | 2.50        | 7.6                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 10                                      | 1200                                    |  |              |              | 1.90        | 7.3                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 11                                      | 0930                                    |  |              |              | 1.60        | 7.3                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 12                                      | 0930                                    |  |              |              | 2.32        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 13                                      | 0945                                    |  |              |              | 1.75        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 14                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 15                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 16                                      | 0930                                    |  |              |              | 1.93        | 7.0                   |    |                  |                   |                          |     |                  |               | 4.4                     |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 17                                      | 0945                                    |  |              |              | 1.93        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 18                                      | 0910                                    |  |              |              | 1.93        | 7.2                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 19                                      | 1000                                    |  |              |              | 1.30        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 20                                      | 0910                                    |  |              |              | 1.10        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 21                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 22                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 23                                      | 0900                                    |  |              |              | 1.14        | 7.5                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 24                                      | 0919                                    |  |              |              | 1.40        | 7.5                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 25                                      | 0910                                    |  |              |              | 1.21        | 7.1                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 26                                      | 0930                                    |  |              |              | 1.50        | 7.6                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 27                                      | 0945                                    |  |              |              | 1.50        | 7.7                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 28                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 29                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 30                                      | 1010                                    |  |              |              | 1.30        | 7.4                   |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| 31                                      |   |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| L                                       | MONTHLY AVERAGE                         | I  |              |              | 1.83        |                       |    |                  |                   |                          |     |                  |               | 5.2                     |                  |  |                |           |        |                |                  |                         |                                 |    |    |
|   | MONTHLY MAXIMUM                         | K  |              |              | 3.64        | 8.1                   |    |                  |                   |                          |     |                  |               | 4.4                     |                  |  |                |           |        |                |                  |                         |                                 |    |    |
|   | MONTHLY MINIMUM                         | J  |              |              | 1.10        | 7.0                   |    |                  |                   |                          |     |                  |               | 6.0                     |                  |  |                |           |        |                |                  |                         |                                 |    |    |
| M                                       | TYPE OF SAMPLE                          |  |              |              |             |                       |    |                  |                   |                          |     |                  |               |                         |                  |  |                |           |        |                |                  |                         |                                 |    |    |

L MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
OFFICE BOX 27687  
Raleigh, NORTH CAROLINA 27611

N N/A  
TREATMENT PLANT NAME, IF APPLICABLEO Orlando Reid  
NAME OF PERSON COLLECTING SAMPLESP Larry R. Kimray  
CERTIFIED BYQ NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR  
CLASS OF  
FACILITYS  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILES

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY AND/OR FACILITY  
CITY Charlotte  
COUNTY Mecklenburg  
GRADE OF CERTIFICATE FIELD II  
If not certified, write NONE  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name) Larry R. Kimray  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

## (Waste Water Treatment)

## EFFLUENT SAMPLES

G November 1981  
MONTHLY REPORT FORH NC 0024392213 (WC aff)  
EFFLUENT I.D. NUMBER

80

| D.   |   |   | E. WASTEWATER FLOW<br>MEASURED AS: (Check One)<br><input type="checkbox"/> INFLUENT<br><input checked="" type="checkbox"/> EFFLUENT |                      |                      | F.                       |     |                             | G. November 1981<br>MONTHLY REPORT FOR |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    | H. NC 0024392213 (WC aff)<br>EFFLUENT I.D. NUMBER |  |  |
|--|---|---|---|----------------------|----------------------|--------------------------|-----|-----------------------------|--|---------------------------------|-------------|-----------------------------|--------------------------|---------------------------------------|-----------------------------|---|------------------------------|------------------|----------------|---------------------------|-----------------------------|---------------------------------------|----|----|----|---|--|--|
| 1  | 2   | 3   | 4   | 5                    | 6                    | 7                        | 8   | 9                           | 10                                     | 11                              | 12          | 13                          | 14                       | 15                                    | 16                          | 17  | 18                           | 19               | 20             | 21                        | 22                          | 23                                    | 24 | 25 | 26 |   |  |  |
| DATE GRAB OR<br>COMPOSITE<br>SAMPLE<br>COLLECTED | GRAB SAMPLE<br>COLLECTION<br>TIME, 2400 CLOCK | LENGTH OF TIME<br>COMPOSITE SAMPLE<br>WAS COLLECTED<br>IN HOURS | WASTEWATER FLOW, MGD  | WASTEWATER FLOW, MGD | WASTEWATER FLOW, MGD | TEMPERATURE<br>(CELSIUS) | pH  | SETTLABLE<br>MATTER<br>ML/L | RESIDUAL<br>CHLORINE<br>MG/L           | CO <sub>2</sub> , 20 °C<br>MG/L | COD<br>MG/L | NITROGEN<br>AMMONIA<br>MG/L | TOTAL<br>RESIDUE<br>MG/L | TOTAL<br>SUSPENDED<br>RESIDUE<br>MG/L | TOTAL<br>PHOSPHORUS<br>MG/L | OIL & GREASE<br>SEPARATOR<br>FUNNEL<br>EXTRACTION<br>MG/L | FECAL<br>COLIFORM<br>/100 ML | TURBIDITY<br>NTU | COPPER<br>MG/L | TOTAL<br>CHROMIUM<br>MG/L | DISSOLVED<br>OXYGEN<br>MG/L | TOTAL<br>KJELDAHL<br>NITROGEN<br>MG/L |    |    |    |   |  |  |
| 1  | 0825  |   |   |                      | 0.56                 |                          | 7.1 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 2  | 0930  |   |   |                      | 0.56                 |                          | 9.4 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 3  |   |   | NO FLOW   |                      |                      |                          |     |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 4  | 0800  |   |   |                      | 0.56                 |                          | 6.6 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 5  | 0900  |   |   |                      | 0.56                 |                          | 6.7 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 6  |   |   | NO FLOW   |                      |                      |                          |     |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 7  | 0940  |   |   |                      | 0.048                |                          | 7.4 |                             |  |                                 |             |                             |                          | 13.2                                  |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 8  | 1430  |   |   |                      | 0.24                 |                          | 6.5 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 9  | 0850  |   |   |                      | 0.64                 |                          | 6.7 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 10   | 0820  |   |   |                      | 0.22                 |                          | 6.5 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 11   | 1800  |   |   |                      | 0.63                 |                          | 7.5 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 12   | 0930  |   |   |                      | 0.62                 |                          | 7.7 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 13   | 0945  |   |   |                      | 0.65                 |                          | 6.7 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 14   |   |   | NO FLOW   |                      |                      |                          |     |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 15   | 0900  |   |   |                      | 0.67                 |                          | 6.5 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 16   | 0930  |   |   |                      | 0.66                 |                          | 6.4 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 17   | 0945  |   |   |                      | 0.73                 |                          | 7.0 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 18   | 0910  |   |   |                      | 0.67                 |                          | 7.0 |                             |  |                                 |             |                             |                          | 20.0                                  |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 19   | 1000  |   |   |                      | 0.67                 |                          | 7.4 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 20   | 0910  |   |   |                      | 0.67                 |                          | 7.8 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 21   | 0910  |   |   |                      | 0.72                 |                          | 8.2 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 22   | 0920  |   |   |                      | 0.72                 |                          | 7.2 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 23   | 0900  |   |   |                      | 0.28                 |                          | 7.0 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 24   | 0919  |   |   |                      | 0.57                 |                          | 7.0 |                             |  |                                 |             |                             |                          | 6.2                                   |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 25   | 0910  |   |   |                      | 0.49                 |                          | 7.1 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 26   | 0930  |   |   |                      | 0.25                 |                          | 7.0 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 27   | 0945  |   |   |                      | 0.26                 |                          | 7.2 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 28   | 0830  |   |   |                      | 0.26                 |                          | 7.3 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 29   | 0930  |   |   |                      | 0.27                 |                          | 7.2 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 30   | 1010  |   |   |                      | 0.28                 |                          | 7.2 |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| 31   |   |   |   |                      |                      |                          |     |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| L. MONTHLY AVERAGE                               |   |   | I   |                      | 0.50                 |                          | 7.1 |                             |  |                                 |             |                             |                          | 13.13                                 |                             | 0.3   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| MONTHLY MAXIMUM                                  |   |   | K   |                      | 0.73                 |                          | 9.4 |                             |  |                                 |             |                             |                          | 20.0                                  |                             | 0.3   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| MONTHLY MINIMUM                                  |   |   | J   |                      | 0.048                |                          | 6.4 |                             |  |                                 |             |                             |                          | 6.2                                   |                             | 0.2   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |
| M. TYPE OF SAMPLE                                |   |   |   |                      |                      |                          |     |                             |  |                                 |             |                             |                          |                                       |                             |   |                              |                  |                |                           |                             |                                       |    |    |    |   |  |  |

1. MONTHLY MONITORING REPORT TO:  
SION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
\*SIGH, NORTH CAROLINA 27611N. N/A  
TREATMENT PLANT NAME, IF APPLICABLEO. Orlando Reid  
NAME OF PERSON COLLECTING SAMPLESP. Larry R. Kimray  
CERTIFIED BYQ. NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR. CLASS OF  
FACILITY

S. NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Mecklenburg  
MUNICIPALITY, INDUSTRY AND/OR FACILITY  
B. NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)  
Larry R. Kimray  
C. II  
GRADE OF CERTIFICATE FIELD  
(If not certified, write NONE)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

Charlotte

## (Metal Cleaning Waste Discharge Documentation)

DEM FORM MR-1.1  
REVISED 3-78E. WASTEWATER FLOW  
MEASURED AS: (Check One)  
☐ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G. November 1981  
MONTHLY REPORT FORH. NC 0024392223  
EFFLUENT T.O. NUMBER

80

| D.                                      |   |  | E.                    |                       |                       | F.                    |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  | G. |    | H. |  | I. |  |
|---|---|--|-----------------------|-----------------------|-----------------------|-----------------------|----|-----------------------|------------------------|-------------------------------|----------|-----------------------|--------------------|------------------------------|-----------------------|--|------------------------|---------------|-------------|---------------------|-----------------------|------------------------------|----------------------------------|----|----|----|--|----|--|
| 1                                       | 2                                       | 3  | 4                     | 5                     | 6                     | 7                     | 8  | 9                     | 10                     | 11                            | 12       | 13                    | 14                 | 15                           | 16                    | 17   | 18                     | 19            | 20          | 21                  | 22                    | 23                           | 24                               | 25 | 26 |    |  |    |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | WASTEWATER FLOW - MGD | WASTEWATER FLOW - MGD | WASTEWATER FLOW - MGD | TEMPERATURE (CELSIUS) | PH | SETTLABLE MATTER ML/L | RESIDUAL CHLORINE MG/L | BOD <sub>5</sub> , 20 °C MG/L | COD MG/L | NITROGEN AMMONIA MG/L | TOTAL RESIDUE MG/L | TOTAL SUSPENDED RESIDUE MG/L | TOTAL PHOSPHORUS MG/L | OIL & GREASE SEPARATORY FUNNEL EXTRACTION MG/L | FECAL COLIFORM /100 ML | TURBIDITY NTU | COPPER µg/L | TOTAL CHROMIUM µg/L | DISSOLVED OXYGEN MG/L | TOTAL KJELDAHL NITROGEN MG/L | ANALYST PARAMETER CODE NO. ABOVE |    |    |    |  |    |  |
| 1                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 2                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 3                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 4                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 5                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 6                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 7                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 8                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 9                                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 10                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 11                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 12                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 13                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 14                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 15                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 16                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 17                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 18                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 19                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 20                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 21                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 22                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 23                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 24                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 25                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 26                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 27                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 28                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 29                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 30                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| 31                                      |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| L. MONTHLY AVERAGE                      |   |  | I.                    |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| MONTHLY MAXIMUM                         |   |  | K.                    |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| MONTHLY MINIMUM                         |   |  | J.                    |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |
| M. TYPE OF SAMPLE                       |   |  |                       |                       |                       |                       |    |                       |                        |                               |          |                       |                    |                              |                       |  |                        |               |             |                     |                       |                              |                                  |    |    |    |  |    |  |

NO METAL CLEANING FOR MONTH OF NOVEMBER 1981

L. MONTHLY AVERAGE  
MONTHLY MAXIMUM  
MONTHLY MINIMUM  
M. TYPE OF SAMPLE1. MONTHLY MONITORING REPORT TO:  
SECTION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
RALEIGH, NORTH CAROLINA 27611N. N/A  
TREATMENT PLANT NAME, IF APPLICABLE

O. NAME OF PERSON COLLECTING SAMPLES

Q. NC0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR. CLASS OF  
FACILITY

S. NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA. MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY AND/OR AGENCY  
CITY CharlotteB. Larry R. Kimray  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)C. II  
GRADE OF CERTIFICATE HELD  
(If not certified, write NONE)  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐



# DUKE POWER COMPANY

STEAM PRODUCTION DEPT.

GENERAL OFFICES

422 SOUTH CHURCH STREET  
CHARLOTTE, N. C. 28242

P. O. BOX 33189

TELEPHONE: AREA 704  
373-4011

February 11, 1982

Division of Environmental Management  
Water Quality Section  
P. O. Box 27687  
Raleigh, N. C. 27611

Subject: Duke Power Company  
NPDES Monitoring Report for  
McGuire Nuclear Station - NC0024392  
File: MC-704.21

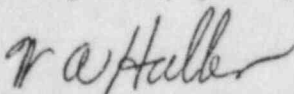
Dear Sir:

In accordance with Part 1, C(2) of the above referenced NPDES permit, duplicate copies of the monthly report for December, 1981 are enclosed. The Duke Power Company NPDES permit requires monitoring for pH, temperature, total suspended solids, oil and grease, total heavy metals, and biological parameters in various discharges and in-lake locations at McGuire.

We are submitting the data on the North Carolina Monthly Monitoring Report Forms and the EPA 3320-1 for clarity. The state Monthly Monitoring Report forms do not readily lend themselves to reporting the parameters we are required to monitor and report. We are required to monitor more parameters than there are allocated spaces.

Please contact us if you require further clarification.

Very truly yours,



W. A. Haller, Manager  
Technical & Environmental Services

LWP/tw

Enclosure

cc: J. E. Lansche w/o enclosure  
J. R. Hendricks " "

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC00024392  
PERMIT NUMBER  
(17-19) 001  
DISCHARGE NUMBER

MONITORING PERIOD  
FROM 

|         |         |         |
|---------|---------|---------|
| 81      | 12      | 01      |
| YEAR    | MO      | DAY     |
| (20-21) | (22-23) | (24-25) |

 TO 

|         |         |         |
|---------|---------|---------|
| 81      | 12      | 31      |
| YEAR    | MO      | DAY     |
| (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(46-53) |         |         |       | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 929.5   | 1153.2  | MGD   |  |         |         |       |                      | 1/Hr                                   | Pump Log                  |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| Discharge Temp.      | SAMPLE MEASUREMENT | 50.3  | 68.6    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 95      | F     |  |         |         |       |                      |  |                           |
| Temperature Change   | SAMPLE MEASUREMENT | -4.9  | -1.1    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT |   | 5       | F     |  |         |         |       |                      |  |                           |
| In Lake Temperature  | SAMPLE MEASUREMENT | 52.0  | 55.2    | DEG   |  |         |         |       | 0                    | 1/Hr                                   | Cont.                     |
|                      | PERMIT REQUIREMENT | 90°   |         | F     |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
William O. Parker, Jr.  
V. P. Steam Production  
TYPED OR PRINTED

THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and for maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA  
CODE

NUMBER

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242

FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC0024392  
PERMIT NUMBER

(17-19) 002  
DISCHARGE NUMBER

MONITORING PERIOD

|      |         |         |         |    |         |         |         |
|------|---------|---------|---------|----|---------|---------|---------|
| FROM | 81      | 12      | 01      | TO | 81      | 12      | 31      |
|      | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|      | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37)   |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(54-61) |         |         | NO.<br>EX<br>(62-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|------------------------|--------------------|---|---------|-------|--|---------|---------|----------------------|--|---------------------------|
|                        |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM |                      |  |                           |
| Flow                   | SAMPLE MEASUREMENT | 0.3   | 0.6     | MGD   |  |         |         |                      | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
| pH                     | SAMPLE MEASUREMENT | 6.87  | 7.40    | Std.  |  |         |         | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |                      |  |                           |
| Total Suspended Solids | SAMPLE MEASUREMENT |   |         |       | 1.4  | 6.6     | 11.0    | 0                    | 1/1                                    | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 30      | 100     |                      |  |                           |
| Oil and Grease         | SAMPLE MEASUREMENT |   |         |       | 0.4  | 0.5     | 0.5     | 0                    | 2/mo                                   | GR                        |
|                        | PERMIT REQUIREMENT |   |         |       |  | 15      | 20      |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | SAMPLE MEASUREMENT |   |         |       |  |         |         |                      |  |                           |
|                        | PERMIT REQUIREMENT |   |         |       |  |         |         |                      |  |                           |

|  |   |  |           |        |      |    |
|--|---|--|-----------|--------|------|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><u>William O. Parker, Jr.</u><br><u>V. P. Steam Production</u><br>TYPED OR PRINTED | THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 35 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE   |      |    |
|  |   |  | AREA CODE | NUMBER | YEAR | MO |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



DISCHARGE MONITORING REPORT (DMR)

NAME Duke Power Company  
ADDRESS P. O. Box 33189  
Charlotte, N. C. 28242  
FACILITY McGuire Nuclear Station  
LOCATION Cornelius, N. C.

(2-16) NC0024392  
PERMIT NUMBER  
(17-19) 005  
DISCHARGE NUMBER

| MONITORING PERIOD |         |         |         |    |         |         |         |
|-------------------|---------|---------|---------|----|---------|---------|---------|
| FROM              | 81      | 12      | 01      | TO | 81      | 12      | 31      |
|                   | YEAR    | MO      | DAY     |    | YEAR    | MO      | DAY     |
|                   | (20-21) | (22-23) | (24-25) |    | (26-27) | (28-29) | (30-31) |

NOTE: Read instructions before completing this form.

| PARAMETER<br>(32-37) |                    | (3 Card Only)<br>QUANTITY OR LOADING<br>(46-53) |         |       | (4 Card Only)<br>QUALITY OR CONCENTRATION<br>(38-45) |         |         |       | NO.<br>EX<br>(52-63) | FREQUENCY<br>OF<br>ANALYSIS<br>(64-68) | SAMPLE<br>TYPE<br>(69-70) |
|----------------------|--------------------|---|---------|-------|--|---------|---------|-------|----------------------|--|---------------------------|
|                      |                    | AVERAGE   | MAXIMUM | UNITS | MINIMUM  | AVERAGE | MAXIMUM | UNITS |                      |  |                           |
| Flow                 | SAMPLE MEASUREMENT | 2.5   | 4.7     | MGD   |  |         |         |       |                      | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
| pH                   | SAMPLE MEASUREMENT | 7.56  | 8.80    | Std.  |  |         |         |       | 0                    | 1/1                                    | GR                        |
|                      | PERMIT REQUIREMENT |   | 9       | Units |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | SAMPLE MEASUREMENT |   |         |       |  |         |         |       |                      |  |                           |
|                      | PERMIT REQUIREMENT |   |         |       |  |         |         |       |                      |  |                           |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
William O. Parker, Jr.  
V.P. Steam Production

THIS DOCUMENT IS SIGNED WITH RECOGNITION THAT KNOWINGLY MAKING A FALSE CERTIFICATION ON THIS REPORT OR SUPPORTING DOCUMENTS OR INTENTIONALLY TAMPERING WITH ANY MONITORING DEVICE OR METHOD ARE CRIMINAL OFFENSES, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may be fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE  
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA  
CODE

NUMBER

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

RETAIN YELLOW  
COPY FOR FILES

## EFFLUENT SAMPLES

G December 19 81  
MONTHLY REPORT FORH NC 0024392213 (WC)  
EFFLUENT I.D. NUMBER

80

| D.   |   |   | E. WASTEWATER FLOW<br>MEASURED AS: (Check One)<br><input type="checkbox"/> INFLUENT<br><input type="checkbox"/> EFFLUENT |                 |                | F.                       |     |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
|--|---|---|--|-----------------|----------------|--------------------------|-----|---------------------|----------------------|--------------------------|-----|----------------------|------------------|-------------------------------|---------------------|---|-------------------|-----------|--------|-------------------|---------------------|-------------------------------|--------------------------------|----|----|--|--|--|--|--|--|
| 1  | 2   | 3   | 4  | 5               | 6              | 7                        | 8   | 9                   | 10                   | 11                       | 12  | 13                   | 14               | 15                            | 16                  | 17  | 18                | 19        | 20     | 21                | 22                  | 23                            | 24                             | 25 | 26 |  |  |  |  |  |  |
| DATE GRAB OR<br>COMPOSITE<br>SAMPLE<br>COLLECTED | GRAB SAMPLE<br>COLLECTION<br>TIME, 2400 CLOCK | LENGTH OF TIME<br>COMPOSITE SAMPLE<br>WAS COLLECTED<br>IN HOURS | MAXIMUM<br>RATE  | MINIMUM<br>RATE | DAILY<br>TOTAL | TEMPERATURE<br>(CELSIUS) | pH  | SETTLABLE<br>MATTER | RESIDUAL<br>CHLORINE | 800 <sub>5</sub> , 20 °C | COD | NITROGEN,<br>AMMONIA | TOTAL<br>RESIDUE | TOTAL<br>SUSPENDED<br>RESIDUE | TOTAL<br>PHOSPHORUS | OIL & GREASE<br>SEPARATOR<br>FUNNEL<br>EXTRACTION | FECAL<br>COLIFORM | TURBIDITY | COPPER | TOTAL<br>CHROMIUM | DISSOLVED<br>OXYGEN | TOTAL<br>KJELDAHL<br>NITROGEN | ENTER PARAMETER CODE NO. ABOVE |    |    |  |  |  |  |  |  |
| 1  | 0925  |   |  |                 | 0.26           |                          | 6.8 |                     |                      |                          |     |                      |                  | 1.4                           |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 2  | 0850  |   |  |                 | 0.26           |                          | 6.8 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 3  | 0905  |   |  |                 | 0.29           |                          | 7.4 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 4  | 1045  |   |  |                 | 0.26           |                          | 7.0 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 5  | 0900  |   |  |                 | 0.57           |                          | 6.7 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 6  | 0915  |   |  |                 | 0.24           |                          | 6.5 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 7  | 0950  |   |  |                 | 0.50           |                          | 6.9 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 8  | 0845  |   |  |                 | 0.24           |                          | 6.7 |                     |                      |                          |     |                      |                  | 9.5                           |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 9  | 1115  |   |  |                 | 0.18           |                          | 6.6 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 10   | 0845  |   |  |                 | 0.22           |                          | 6.6 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 11   | 0845  |   |  |                 | 0.22           |                          | 6.7 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 12   | 1005  |   |  |                 | 0.22           |                          | 6.6 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 13   | 1030  |   |  |                 | 0.20           |                          | 6.4 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 14   | 0900  |   |  |                 | 0.26           |                          | 7.2 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 15   | 0900  |   |  |                 | 0.25           |                          | 6.6 |                     |                      |                          |     |                      |                  | 11.0                          |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 16   | 0845  |   |  |                 | 0.24           |                          | 6.5 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 17   | 0930  |   |  |                 | 0.15           |                          | 6.9 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 18   | 0900  |   |  |                 | 0.38           |                          | 6.7 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 19   | 1530  |   |  |                 | 0.15           |                          | 7.2 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 20   | 1005  |   |  |                 | 0.24           |                          | 6.7 |                     |                      |                          |     |                      |                  | 6.94                          |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 21   | 0840  |   |  |                 | 0.24           |                          | 7.1 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 22   | 0900  |   |  |                 | 0.22           |                          | 7.0 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 23   | 0830  |   |  |                 | 0.22           |                          | 7.1 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 24   | 0905  |   |  |                 | 0.24           |                          | 7.1 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 25   | 0910  |   |  |                 | 0.23           |                          | 7.2 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 26   | 1042  |   |  |                 | 0.24           |                          | 7.3 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 27   | 1130  |   |  |                 | 0.28           |                          | 7.0 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 28   | 0850  |   |  |                 | 0.28           |                          | 6.8 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 29   | 0830  |   |  |                 | 0.28           |                          | 7.0 |                     |                      |                          |     |                      |                  | 4.2                           |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 30   | 0835  |   |  |                 | 0.28           |                          | 6.9 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| 31   | 1300  |   |  |                 | 0.32           |                          | 7.1 |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| L MONTHLY AVERAGE                                |   |   | I  |                 | 0.26           |                          |     |                     |                      |                          |     |                      |                  | 6.6                           |                     | 0.5   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| MONTHLY MAXIMUM                                  |   |   | K  |                 | 0.57           |                          | 7.4 |                     |                      |                          |     |                      |                  | 11.0                          |                     | 0.5   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| MONTHLY MINIMUM                                  |   |   | J  |                 | 0.15           |                          | 6.4 |                     |                      |                          |     |                      |                  | 1.4                           |                     | 0.4   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
| M TYPE OF SAMPLE                                 |   |   |  |                 |                |                          |     |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |
|  |   |   |  |                 |                |                          |     |                     |                      |                          |     |                      |                  |                               |                     |   |                   |           |        |                   |                     |                               |                                |    |    |  |  |  |  |  |  |

1 MONTHLY MONITORING REPORT TO:  
SIGN OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
RICH, NORTH CAROLINA 27611N N/A  
TREATMENT PLANT NAME, IF APPLICABLEQ NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR.  
CLASS OF  
FACILITYQ Ellen D. Perry  
NAME OF PERSON COLLECTING SAMPLESS  
NAME OF CERTIFIED LABORATORY PERFORMING ANALYSISP *James R. Kimray*  
CERTIFIED BY\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILESA MONTHLY REPORT FOR DPC McGuire Nuclear Station  
COUNTY Mecklenburg  
C GRADE OF CERTIFICATE FIELD  
II  
NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)  
B Larry R. Kimray  
CITY Charlotte  
IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐



## 004 Metal Cleaning Waste Discharge Documentation

DEM FORM MR 11  
REVISED 3-78E. WASTEWATER FLOW  
MEASURED AS: (Check One)  
☐ INFLUENT  
☐ EFFLUENT

## EFFLUENT SAMPLES

G December 1981  
MONTHLY REPORT FORH NC 0024392223  
EFFLUENT I.D. NUMBER

80

| D.                                      |   |  | E.           |              |             | F.                    |       |                  | G.                |                          |       | H.               |               |                         | I.               |   |                | J.        |        |                | K.               |                         |                                    | L. |    |  |
|---|---|--|--------------|--------------|-------------|-----------------------|-------|------------------|-------------------|--------------------------|-------|------------------|---------------|-------------------------|------------------|---|----------------|-----------|--------|----------------|------------------|-------------------------|------------------------------------|----|----|--|
| 1                                       | 2                                       | 3  | 4            | 5            | 6           | 7                     | 8     | 9                | 10                | 11                       | 12    | 13               | 14            | 15                      | 16               | 17  | 18             | 19        | 20     | 21             | 22               | 23                      | 24                                 | 25 | 26 |  |
| DATE GRAB OR COMPOSITE SAMPLE COLLECTED | GRAB SAMPLE COLLECTION TIME, 2400 CLOCK | LENGTH OF TIME COMPOSITE SAMPLE WAS COLLECTED IN HOURS | MAXIMUM RATE | MINIMUM RATE | DAILY TOTAL | TEMPERATURE (CELSIUS) | pH    | SETTLABLE MATTER | RESIDUAL CHLORINE | 800 <sub>5</sub> , 20 °C | COD   | NITROGEN AMMONIA | TOTAL RESIDUE | TOTAL SUSPENDED RESIDUE | TOTAL PHOSPHORUS | OIL & GREASE SEPARATORY FUNNEL EXTRACTION | FECAL COLIFORM | TURBIDITY | COPPER | TOTAL CHROMIUM | DISSOLVED OXYGEN | TOTAL Kjeldahl Nitrogen | ENTER PARAMETER CODE, NO. AND UNIT |    |    |  |
| 1                                       |   |  | 50047        | 50048        | 50050       | 00010                 | 00000 | 00545            | 50060             | 00310                    | 00340 | 00610            | 00500         | 00530                   | 00665            | 00556                                     | 31616          | 00076     | 01042  | 01034          | 00300            | 00625                   |                                    |    |    |  |
| 2                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 3                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 4                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 5                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 6                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 7                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 8                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 9                                       |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 10                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 11                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 12                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 13                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 14                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 15                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 16                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 17                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 18                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 19                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 20                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 21                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 22                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 23                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 24                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 25                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 26                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 27                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 28                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 29                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 30                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| 31                                      |   |  |              |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| L MONTHLY AVERAGE                       |   |  | J            |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| MONTHLY MAXIMUM                         |   |  | K            |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| MONTHLY MINIMUM                         |   |  | J            |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |
| M TYPE OF COMPOSITE SAMPLE              |   |  | J            |              |             |                       |       |                  |                   |                          |       |                  |               |                         |                  |   |                |           |        |                |                  |                         |                                    |    |    |  |

NO METAL CLEANING FOR MONTH OF DECEMBER 1981

1 MONTHLY MONITORING REPORT TO:  
SECTION OF ENVIRONMENTAL MANAGEMENT  
DEPT. NATURAL RESOURCES & COMM. DEVEL.  
1 OFFICE BOX 27687  
RICHMOND, NORTH CAROLINA 27611N N/A  
TREATMENT PLANT NAME, IF APPLICABLE

O NAME OF PERSON COLLECTING SAMPLES

Q NC 0024392  
PERMIT OR NPDES  
DISCHARGE PERMIT  
NUMBERR CLASS OF  
FACILITY

S NAME OF CERTIFIED LABORATORY PERFORMING ANALYSIS

\*ENTER GEOMETRIC MEAN HERE. DO NOT USE  
AN ARITHMETIC MEANMAIL WHITE & PINK  
COPIES TO RALEIGHRETAIN YELLOW  
COPY FOR FILES

A MONTHLY REPORT FOR DPC McGuire Nuclear Station  
MUNICIPALITY, INDUSTRY, AND/OR FACILITY  
CITY Charlotte

COUNTY II  
CITY II

NAME OF RESPONSIBLE OPERATOR IN CHARGE (Print Name)  
Larry R. Kimray

IF THE RESPONSIBLE OPERATOR IN CHARGE  
HAS CHANGED SINCE THE PREVIOUS REPORT  
PLEASE CHECK THIS BLOCK ☐

Attachment 2  
McGuire Nuclear Station

EPP Non-compliance and Corrective Actions

| <u>Date</u>        | <u>Non-compliance</u>   | <u>Corrective Action</u>   |
|--------------------|---|--|
| August, 1981       | Waste Water Collection<br>Basin effluent pH exceeded<br>maximum limit of 9.0    | Increased sampling<br>frequency of WWCB; verified<br>influent to WWCB within<br>specification. |
| September 22, 1981 | Conventional Wastewaters<br>Treatment System pH dropped<br>below 6.0            | Discharge point isolated,<br>repairs to leaking gates<br>made.                                 |
| November 2, 1981   | Conventional Wastewater<br>Treatment System pH exceeded<br>maximum limit of 9.0 | Discharge from system<br>terminated.   |

Attachment 3  
McGuire Nuclear Station

Changes in Station Design or Operation, Tests and Experiments Which Involve a  
Potentially Significant Unreviewed Environmental Issue

None



Attachment 4  
McGuire Nuclear Station

Non-routine Reports Submitted in Accordance with Section 5.4.2 of EPP

None