

ALABAMA POWER COMPANY

JOSEPH M. FARLEY NUCLEAR PLANT - UNIT NO. 1

ANNUAL NON-RADIOLOGICAL ENVIRONMENTAL  
OPERATING REPORT

PERIOD ENDING DECEMBER 31, 1980

8103310427,

Joseph M. Farley Nuclear Plant  
Unit No. 1  
Non-Radiological  
Annual Environmental Operating Report

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## INTRODUCTION

This annual report is submitted pursuant to Section 5.6.1.a, Part A of the Environmental Technical Specifications, Appendix B, to Operating License NPF-2. This report summarizes the Environmental Surveillance Program for the Joseph M. Farley Nuclear Plant for the reporting period of January 1 - December 31, 1980.

## SECTION I

### NON-RADIOLOGICAL WATER MONITORING

This Section is submitted to fulfill the requirements of Sections 2.1 and 2.2 of the Environmental Technical Specifications for Farley Nuclear Plant.



## I-NON-RADIOLOGICAL WATER MONITORING

### I. Introduction

The purpose of this report is to provide the results of analyses which were performed for certain parameters as required by the NPDES permit and Environmental Technical Specifications for the Farley Nuclear Plant. This report consists of data provided to EPA and/or AWIC.

### II. Discussion

#### A. Thermal

The temperature of once-through cooling water and service water by-pass was monitored once per week during the months of June, July, and August at the combined discharge prior to mixing with other waste streams as required by the NPDES permit. See Attachment I.

The flow of once-through cooling water and service water by-pass was monitored continuously at the combined discharge prior to mixing with other waste streams as required by the NPDES permit. See Attachment I.

The temperature of the cooling tower blowdown was monitored once per week during periods of maximum expected temperatures at the discharge from the cooling tower blowdown prior to mixing with other waste streams as required by the NPDES permit. See Attachment II. The flow of the cooling tower blowdown was monitored once per day at the discharge from the cooling tower blowdown prior to mixing with other waste streams as required by the NPDES permit. See Attachment II.

#### B. Chlorine

To prevent any possibility of releasing waste water with chlorine concentrations above the NPDES permit limit, the blowdown is closed during chlorination. The blowdown remains closed until the chlorine concentration has decreased to a concentration below the maximum permissible discharge level. The blowdown can then be opened as necessary. If the blowdown is not opened on the day the analysis is run, then an analysis may be reported when the flow is zero. See Attachment II for the chlorine analyses for the cooling tower blowdown. Chlorination did not necessarily occur on a weekly basis.

C. pH

Samples were taken prior to mixing with other waste streams and were analyzed at the indicated frequency for pH as required in the NPDES permit for the following waste streams:

| <u>Waste Streams</u>            | <u>Monitoring Frequency</u> | <u>NPDES Discharge Serial Number</u> | <u>Attachment Number</u> |
|---------------------------------|-----------------------------|--------------------------------------|--------------------------|
| Cooling Tower Blowdown          | Once per week               | 002                                  | II                       |
| Turbine Building Sump           | Once per week               | 004                                  | III                      |
| Settling Basin*                 | Once per week               | 005                                  | IV                       |
| Sewage Treatment Plant Effluent | Once per month              | 007                                  | V                        |
| Metal Cleaning Wastes           | Once per week               | 008                                  | VI                       |

III. Conclusion

The parameters of flow, pH, chlorine, and temperature were monitored as required by the NPDES permit and the Environmental Technical Specifications. Non-compliance reports for violations which occurred for these parameters were provided to EPA and/or AWIC. Copies of these reports may be found in the attachments.

Other miscellaneous non-compliance reports for NPDES violations are given in Section V.

\* In November, 1978, the Neutralization Tank Waste (DSN 005) and the Demineralization Filter Backwash (DSN 006) were combined and are referred to as Settling Basin (DSN 005).

ATTACHMENT I

Once Through Cooling Water  
and Service Water Bypass  
(DSN 001)  
Flow and Temperature\*

\* Temperature for June, July and August

ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

JANUARY, 1980

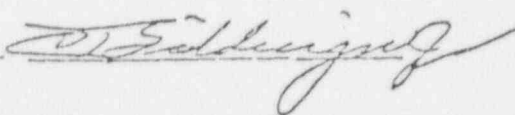
DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP  |
|------|------|-------|
| AVG  | ---  | ---   |
| MAX  | ---  | ---   |
| UNIT | MGD  | DEG F |
| FREQ | CONT | 1/6K  |

|    |       |
|----|-------|
| 1  | 32.64 |
| 2  | 35.30 |
| 3  | 35.05 |
| 4  | 31.12 |
| 5  | 24.94 |
| 6  | 21.23 |
| 7  | 25.80 |
| 8  | 37.53 |
| 9  | 45.07 |
| 10 | 43.39 |
| 11 | 49.52 |
| 12 | 53.97 |
| 13 | 54.07 |
| 14 | 53.49 |
| 15 | 50.60 |
| 16 | 59.02 |
| 17 | 54.55 |
| 18 | 52.82 |
| 19 | 55.74 |
| 20 | 55.71 |
| 21 | 50.35 |
| 22 | 54.45 |
| 23 | 53.57 |
| 24 | 51.99 |
| 25 | 55.32 |
| 26 | 36.42 |
| 27 | 30.57 |
| 28 | 31.62 |
| 29 | 30.97 |
| 30 | 35.59 |
| 31 | 35.73 |

AVG 45.00

SIGNATURE OF RESPONSIBLE OFFICIAL



ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

FEBRUARY, 1980

DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP  |
|------|------|-------|
| AVG  | ---  | ---   |
| MAX  | ---  | ---   |
| UNIT | HGD  | DEG F |
| FREQ | CONT | 1/WK  |

|    |       |
|----|-------|
| 1  | 28.33 |
| 2  | 29.45 |
| 3  | 27.12 |
| 4  | 30.39 |
| 5  | 35.30 |
| 6  | 42.36 |
| 7  | 37.45 |
| 8  | 38.56 |
| 9  | 36.53 |
| 10 |       |
| 11 | 42.63 |
| 12 | 3.33  |
| 13 | 32.45 |
| 14 | 44.05 |
| 15 | 47.11 |
| 16 | 46.20 |
| 17 | 41.76 |
| 18 | 30.16 |
| 19 | 24.58 |
| 20 | 30.14 |
| 21 | 30.41 |
| 22 | 31.28 |
| 23 | 31.31 |
| 24 | 37.63 |
| 25 | 27.46 |
| 26 | 31.18 |
| 27 | 32.35 |
| 28 | 28.56 |
| 29 | 29.63 |

AVG 33.13

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*W. Biddinger Jr.*

ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE COIA: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP  |
|------|------|-------|
| AVG  | ---  | ---   |
| MAX  | ---  | ---   |
| UNIT | MGD  | DEG F |
| FREQ | CONT | 1/WK  |

|    |       |
|----|-------|
| 1  | 32.65 |
| 2  | 33.61 |
| 3  | 31.47 |
| 4  | 29.94 |
| 5  | 26.11 |
| 6  | 24.22 |
| 7  | 30.00 |
| 8  | 30.68 |
| 9  | 24.72 |
| 10 | 23.62 |
| 11 | 24.38 |
| 12 | 29.03 |
| 13 | 25.65 |
| 14 | 28.62 |
| 15 | 28.38 |
| 16 | 30.52 |
| 17 | 31.35 |
| 18 | 29.51 |
| 19 | 28.44 |
| 20 | 26.32 |
| 21 | 30.04 |
| 22 | 30.23 |
| 23 | 27.27 |
| 24 | 26.80 |
| 25 | 29.22 |
| 26 | 30.12 |
| 27 | 26.86 |
| 28 | 30.23 |
| 29 | 36.69 |
| 30 | 27.70 |
| 31 | 24.54 |

AVG 28.68

SIGNATURE OF RESPONSIBLE OFFICIAL

*T. Biddings Jr.*

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DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024519

APRIL, 1980

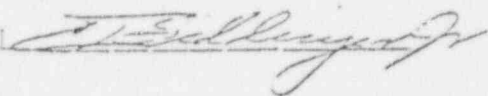
DISCHARGE DATA: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP  |
|------|------|-------|
| AVG  | ---  | ---   |
| MAX  | ---  | ---   |
| UNIT | MGD  | DEG F |
| FREQ | CONT | 1/4K  |

|    |       |
|----|-------|
| 1  | 29.70 |
| 2  | 20.43 |
| 3  | 36.46 |
| 4  | 29.09 |
| 5  | 32.04 |
| 6  | 31.37 |
| 7  | 28.36 |
| 8  | 29.37 |
| 9  | 31.37 |
| 10 | 30.73 |
| 11 | 30.62 |
| 12 | 34.15 |
| 13 | 29.37 |
| 14 | 28.22 |
| 15 | 30.04 |
| 16 | 32.05 |
| 17 | 32.61 |
| 18 | 32.58 |
| 19 | 32.57 |
| 20 | 32.59 |
| 21 | 28.43 |
| 22 | 29.17 |
| 23 | 29.78 |
| 24 | 26.30 |
| 25 | 30.76 |
| 26 | 31.95 |
| 27 | 28.44 |
| 28 | 26.40 |
| 29 | 25.40 |
| 30 | 29.52 |

AVG 30.07

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DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MAY, 1980

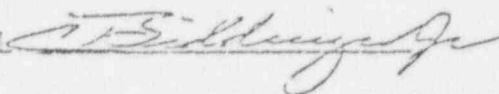
DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP  |
|------|------|-------|
| AVG  | ---  | ---   |
| MAX  | ---  | ---   |
| UNIT | MGD  | DEG F |
| FREQ | CONF | 1/WK  |

|    |       |
|----|-------|
| 1  | 29.91 |
| 2  | 28.52 |
| 3  | 32.07 |
| 4  | 28.34 |
| 5  | 27.29 |
| 6  | 29.08 |
| 7  | 28.61 |
| 8  | 32.25 |
| 9  | 32.75 |
| 10 | 31.65 |
| 11 | 25.73 |
| 12 | 28.35 |
| 13 | 32.08 |
| 14 | 27.77 |
| 15 | 37.23 |
| 16 | 27.98 |
| 17 | 29.07 |
| 18 | 32.86 |
| 19 | 30.35 |
| 20 | 31.45 |
| 21 | 29.52 |
| 22 | 18.12 |
| 23 | 25.30 |
| 24 | 31.09 |
| 25 | 30.13 |
| 26 | 27.21 |
| 27 | 23.13 |
| 28 | 25.24 |
| 29 | 22.78 |
| 30 | 22.50 |
| 31 | 23.04 |

AVG 28.50

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# ALABAMA NUCLEAR POWER PLANT DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 HARTLEY NUCLEAR POWER PLANT  
 AL-0024619

JUNE, 1980

DISCHARGE DATA: ONCE THROUGH COOLING - UNIT 1

| DATE | AVG | MAX | UNIT | PRD |
|------|-----|-----|------|-----|
|------|-----|-----|------|-----|

|     |       |       |      |       |
|-----|-------|-------|------|-------|
| 1   | 29.97 | 33.94 | 36.0 | 35.03 |
| 2   | 19.42 | 31.47 | 36.0 | 35.03 |
| 3   | 10.05 | 29.77 | 36.0 | 35.03 |
| 4   | 29.98 | 30.43 | 36.0 | 35.03 |
| 5   | 27.81 | 33.94 | 36.0 | 35.03 |
| 6   | 33.94 | 33.94 | 36.0 | 35.03 |
| 7   | 31.47 | 33.94 | 36.0 | 35.03 |
| 8   | 29.77 | 33.94 | 36.0 | 35.03 |
| 9   | 30.43 | 33.94 | 36.0 | 35.03 |
| 10  | 23.85 | 33.94 | 36.0 | 35.03 |
| 11  | 30.96 | 33.94 | 36.0 | 35.03 |
| 12  | 33.75 | 33.94 | 36.0 | 35.03 |
| 13  | 35.45 | 33.94 | 36.0 | 35.03 |
| 14  | 48.73 | 33.94 | 36.0 | 35.03 |
| 15  | 33.94 | 33.94 | 36.0 | 35.03 |
| 16  | 45.33 | 33.94 | 36.0 | 35.03 |
| 17  | 45.10 | 33.94 | 36.0 | 35.03 |
| 18  | 47.73 | 33.94 | 36.0 | 35.03 |
| 19  | 40.22 | 33.94 | 36.0 | 35.03 |
| 20  | 33.04 | 33.94 | 36.0 | 35.03 |
| 21  | 54.03 | 33.94 | 36.0 | 35.03 |
| 22  | 30.42 | 33.94 | 36.0 | 35.03 |
| 23  | 39.07 | 33.94 | 36.0 | 35.03 |
| 24  | 35.57 | 33.94 | 36.0 | 35.03 |
| 25  | 31.52 | 33.94 | 36.0 | 35.03 |
| 26  | 31.15 | 33.94 | 36.0 | 35.03 |
| 27  | 44.09 | 33.94 | 36.0 | 35.03 |
| 28  | 38.35 | 33.94 | 36.0 | 35.03 |
| 29  | 24.96 | 33.94 | 36.0 | 35.03 |
| 30  | 39.23 | 33.94 | 36.0 | 35.03 |
| AVG |       |       |      | 35.03 |

SIGNATURE OF RESPONSIBLE OFFICIAL

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

JULY, 1980

DISCHARGE DATA: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW  | TEMP  |
|------|-------|-------|
| AVG  | ---   | ---   |
| MAX  | ---   | ---   |
| UNIT | MGD   | DEG F |
| FREQ | CONT  | 1/HK  |
| 1    | 38.23 |       |
| 2    | 44.25 |       |
| 3    | 43.52 |       |
| 4    | 43.50 |       |
| 5    | 41.84 |       |
| 6    | 39.54 |       |
| 7    | 40.41 |       |
| 8    | 41.22 |       |
| 9    | 37.35 |       |
| 10   | 38.90 |       |
| 11   | 34.73 | 89.6  |
| 12   | 28.02 |       |
| 13   | 28.90 |       |
| 14   | 28.19 |       |
| 15   | 27.13 |       |
| 16   | 30.30 |       |
| 17   | 25.77 | 83.0  |
| 18   | 27.32 |       |
| 19   | 27.52 |       |
| 20   | 31.08 |       |
| 21   | 36.18 | 91.9  |
| 22   | 29.29 |       |
| 23   | 30.35 |       |
| 24   | 31.56 |       |
| 25   | 11.71 |       |
| 26   | 25.81 |       |
| 27   | 25.31 |       |
| 28   | 27.14 | 86.0  |
| 29   | 41.09 |       |
| 30   | 49.04 |       |
| 31   | 47.32 |       |
| AVG  | 33.93 | 83.9  |

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*[Handwritten Signature]*

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DISCHARGE MONITORING REPORT

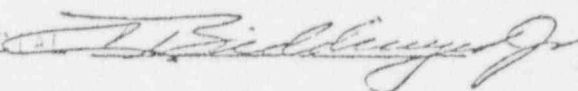
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

AUGUST, 1980

DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW  | TEMP  |
|------|-------|-------|
| AVG  | ---   | ---   |
| MAX  | ---   | ---   |
| UNIT | MGD   | DEG F |
| FREQ | CONT  | 1/WK  |
| 1    | 45.73 |       |
| 2    | 37.67 |       |
| 3    | 42.04 |       |
| 4    | 25.99 |       |
| 5    | 33.04 | 92.0  |
| 6    | 30.30 |       |
| 7    | 33.25 |       |
| 8    | 33.22 |       |
| 9    | 32.06 |       |
| 10   | 28.37 |       |
| 11   | 30.00 |       |
| 12   | 27.27 | 92.0  |
| 13   | 31.87 |       |
| 14   | 31.21 |       |
| 15   | 35.96 |       |
| 16   | 30.52 |       |
| 17   | 27.57 |       |
| 18   | 28.05 |       |
| 19   | 33.03 |       |
| 20   | 34.23 |       |
| 21   | 31.54 |       |
| 22   | 32.14 | 90.0  |
| 23   | 32.00 |       |
| 24   | 30.57 |       |
| 25   | 21.85 |       |
| 26   | 40.78 | 90.0  |
| 27   | 43.63 |       |
| 28   | 48.78 |       |
| 29   | 22.38 |       |
| 30   | 35.94 |       |
| 31   | 37.53 |       |
| AVG  | 33.20 | 91.0  |

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DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

SEPTEMBER, 1980

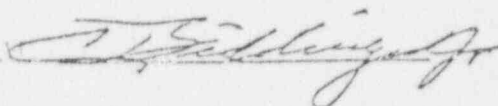
DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP * |
|------|------|--------|
| AVG  | ---  | ---    |
| MAX  | ---  | ---    |
| UNIT | MGD  | DEG F  |
| FREQ | CONT | 17XK   |

|    |       |
|----|-------|
| 1  | 43.62 |
| 2  | 47.37 |
| 3  | 44.82 |
| 4  | 39.03 |
| 5  | 45.52 |
| 6  | 50.51 |
| 7  | 39.40 |
| 8  | 34.50 |
| 9  | 33.65 |
| 10 | 34.77 |
| 11 | 0.27  |
| 12 | 38.39 |
| 13 | 31.30 |
| 14 | 40.15 |
| 15 | 40.53 |
| 16 | 38.07 |
| 17 | 40.64 |
| 18 | 43.70 |
| 19 | 43.21 |
| 20 | 50.04 |
| 21 | 43.60 |
| 22 | 43.97 |
| 23 | 47.49 |
| 24 | 40.15 |
| 25 | 43.44 |
| 26 | 35.05 |
| 27 | 19.39 |
| 28 | 14.44 |
| 29 | 33.47 |
| 30 | 35.13 |

AVG 33.61

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Required for

\* June, July, and August only

## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

OCTOBER, 1980

DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW  | TEMP   |
|------|-------|--------|
| AVG  | ---   | ---    |
| MAX  | ---   | ---    |
| UNIT | ACD   | DEG F  |
| FREQ | CONT  | 1/WK * |
| 1    | 41.42 |        |
| 2    | 27.27 |        |
| 3    | 33.42 |        |
| 4    | 35.18 |        |
| 5    | 33.71 |        |
| 6    | 36.11 |        |
| 7    | 38.01 |        |
| 8    | 35.17 |        |
| 9    | 39.88 |        |
| 10   | 26.69 |        |
| 11   | 32.29 |        |
| 12   | 32.66 |        |
| 13   | 32.68 |        |
| 14   | 32.23 |        |
| 15   | 32.38 |        |
| 16   | 32.21 |        |
| 17   | 37.44 |        |
| 18   | 34.49 |        |
| 19   | 32.62 |        |
| 20   | 41.29 |        |
| 21   | 32.58 |        |
| 22   | 37.35 |        |
| 23   | 31.31 |        |
| 24   | 33.59 |        |
| 25   | 34.55 |        |
| 26   | 35.13 |        |
| 27   | 34.72 |        |
| 28   | 38.65 |        |
| 29   | 23.98 |        |
| 30   | 35.39 |        |
| 31   | 36.19 |        |
| AVG  | 34.23 |        |

SIGNATURE OF RESPONSIBLE OFFICIAL

*J E Hubbard* for C. B. Biddings

\* June, July and August only.

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

NOVEMBER, 1980

DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW | TEMP * |
|------|------|--------|
| AVG  | ---  | ---    |
| MAX  | ---  | ---    |
| UNIT | MOD  | DEG F  |
| FREQ | CONT | 1/2WK  |

|     |       |  |
|-----|-------|--|
| 1   | 33.22 |  |
| 2   | 33.63 |  |
| 3   | 32.29 |  |
| 4   | 34.89 |  |
| 5   | 33.49 |  |
| 6   | 34.13 |  |
| 7   | 14.06 |  |
| 8   | 24.59 |  |
| 9   | 23.96 |  |
| 10  | 29.28 |  |
| 11  | 27.47 |  |
| 12  | 14.47 |  |
| 13  | 12.28 |  |
| 14  | 13.00 |  |
| 15  | 13.30 |  |
| 16  | 17.71 |  |
| 17  | 17.91 |  |
| 18  | 15.15 |  |
| 19  | 12.37 |  |
| 20  | 10.53 |  |
| 21  | 10.38 |  |
| 22  | 10.32 |  |
| 23  | 11.45 |  |
| 24  | 17.34 |  |
| 25  | 7.08  |  |
| 26  | 3.91  |  |
| 27  | 24.00 |  |
| 28  | 27.33 |  |
| 29  | 27.13 |  |
| 30  | 24.64 |  |
| AVG | 21.44 |  |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*  
C. B. [illegible]

\* June, July and August only

ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

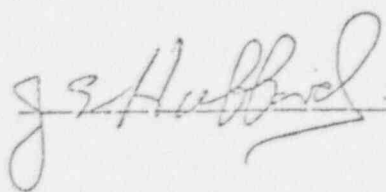
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

DECEMBER, 1980

DISCHARGE 001A: ONCE THROUGH COOLING - UNIT 1

| DATE | FLOW  | TEMP  |
|------|-------|-------|
| AVG  | ---   | ---   |
| MAX  | ---   | ---   |
| UNIT | MGD   | DEG F |
| FREQ | CONT  | 1/NK* |
| 1    | 26.36 |       |
| 2    | 26.25 |       |
| 3    | 26.12 |       |
| 4    | 23.42 |       |
| 5    | 27.08 |       |
| 6    | 25.52 |       |
| 7    | 26.11 |       |
| 8    | 18.47 |       |
| 9    | 26.35 |       |
| 10   | 22.59 |       |
| 11   | 21.85 |       |
| 12   | 20.15 |       |
| 13   | 19.18 |       |
| 14   | 15.11 |       |
| 15   | 21.64 |       |
| 16   | 20.69 |       |
| 17   | 21.04 |       |
| 18   | 21.45 |       |
| 19   | 19.37 |       |
| 20   | 20.12 |       |
| 21   | 17.18 |       |
| 22   | 17.83 |       |
| 23   | 19.13 |       |
| 24   | 15.44 |       |
| 25   | 20.08 |       |
| 26   | 20.58 |       |
| 27   | 21.45 |       |
| 28   | 20.02 |       |
| 29   | 20.43 |       |
| 30   | 22.45 |       |
| 31   | 22.90 |       |
| AVG  | 21.50 |       |

SIGNATURE OF RESPONSIBLE OFFICIAL

 J. S. Hubbard  
C. Biddinger

\* June, July and August only

## ATTACHMENT II

### Cooling Tower Blowdown (DSN 002)

NOTE: There were no thermal readings taken when the flow was zero. Some chlorine analyses were performed when the discharge flow was zero. These readings were taken to insure that any subsequent discharges were in compliance with the NPDES permit.



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

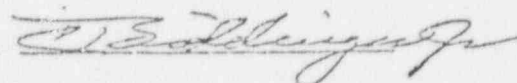
FARLEY NUCLEAR POWER PLANT  
AL-0024519

JANUARY, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL     | FREE CL |
|------|-------|---------|------|--------|---------|
| AVG  | ---   | ---     | 6-9  | ---    | .2      |
| MAX  | ---   | ---     | 6-9  | ---    | .5      |
| UNIT | M3D   | DEG F   | S.U. | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK   | 1/WK    |
| 1    | 3.95  |         |      |        |         |
| 2    | 0.    |         |      |        |         |
| 3    | 0.    |         |      | < 0.10 | < 0.1   |
| 4    | 0.    |         |      |        |         |
| 5    | 2.40  |         |      |        |         |
| 6    | 5.75  |         |      |        |         |
| 7    | 5.75  |         |      |        |         |
| 8    | 2.10  |         |      |        |         |
| 9    | 1.92  | 78.1    | 8.20 | < 0.10 | < 0.1   |
| 10   | 5.75  |         |      |        |         |
| 11   | 2.71  |         |      |        |         |
| 12   | 0.    |         |      |        |         |
| 13   | 1.53  |         |      |        |         |
| 14   | 0.    |         |      |        |         |
| 15   | 0.    |         |      |        |         |
| 16   | 1.04  |         |      | < 0.10 | < 0.1   |
| 17   | 5.75  | 80.1    |      |        |         |
| 18   | 2.90  |         |      |        |         |
| 19   | 0.    |         |      |        |         |
| 20   | 3.20  |         | 8.15 |        |         |
| 21   | 5.75  |         |      |        |         |
| 22   | 3.42  |         |      |        |         |
| 23   | 2.04  | 78.1    | 7.77 | < 0.10 | < 0.1   |
| 24   | 2.83  |         |      |        |         |
| 25   | 0.    |         |      |        |         |
| 26   | 0.    |         |      |        |         |
| 27   | 0.    |         |      |        |         |
| 28   | 2.52  | 78.1    | 7.78 |        |         |
| 29   | 3.05  |         |      |        |         |
| 30   | 0.    |         |      |        |         |
| 31   | 0.    |         |      |        |         |
| AVG  | 2.03  | 78.6    | 7.93 | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

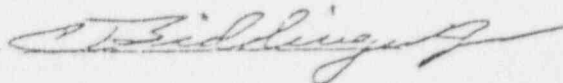
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

FEBRUARY, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL     | FREE CL |
|------|-------|---------|------|--------|---------|
| AVG  | ---   | ---     | 6-9  | ---    | .2      |
| MAX  | ---   | ---     | 6-9  | ---    | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK   | 1/WK    |
| 1    | 0.    |         |      |        |         |
| 2    | 0.    |         |      |        |         |
| 3    | 0.    |         |      |        |         |
| 4    | 0.    |         |      |        |         |
| 5    | 0.    |         |      |        |         |
| 6    | 0.    |         |      |        |         |
| 7    | 0.    |         |      |        |         |
| 8    | 0.    |         |      |        |         |
| 9    | 0.    |         |      |        |         |
| 10   | 0.    |         |      |        |         |
| 11   | 0.    |         |      |        |         |
| 12   | 0.    |         |      |        |         |
| 13   | 0.    |         |      |        |         |
| 14   | 0.    |         |      |        |         |
| 15   | 0.    |         |      |        |         |
| 16   | 0.    |         |      |        |         |
| 17   | 0.    |         |      |        |         |
| 18   | 0.34  |         |      | < 0.10 | < 0.1   |
| 19   | 3.24  | 77.0    | 7.76 |        |         |
| 20   | 2.25  |         |      |        |         |
| 21   | 5.76  |         |      |        |         |
| 22   | 3.46  |         |      |        |         |
| 23   | 1.92  |         |      |        |         |
| 24   | 5.76  |         |      |        |         |
| 25   | 5.76  |         |      |        |         |
| 26   | 2.33  |         | 7.87 |        |         |
| 27   | 0.    | 66.9    |      | < 0.10 | < 0.1   |
| 28   | 3.64  |         |      |        |         |
| 29   | 1.94  |         |      |        |         |
| AVG  | 1.25  | 72.0    | 7.82 | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

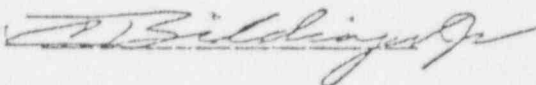
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL     | FREE CL |
|------|-------|---------|------|--------|---------|
| AVG  | ---   | ---     | 6-9  | ---    | .2      |
| MAX  | ---   | ---     | 6-9  | ---    | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK   | 1/WK    |
| 1    | 0.    |         |      |        |         |
| 2    | 0.    |         |      |        |         |
| 3    | 0.    |         |      |        |         |
| 4    | 0.    |         |      |        |         |
| 5    | 3.60  | 84.0    | 8.46 | < 0.10 | < 0.1   |
| 6    | 5.76  |         |      |        |         |
| 7    | 1.86  |         |      |        |         |
| 8    | 0.    |         |      |        |         |
| 9    | 4.38  |         |      |        |         |
| 10   | 5.76  | 86.0    | 8.15 |        |         |
| 11   | 2.61  |         |      |        |         |
| 12   | 2.42  |         |      | < 0.10 | < 0.1   |
| 13   | 5.76  |         |      |        |         |
| 14   | 2.67  |         |      |        |         |
| 15   | 0.    |         |      |        |         |
| 16   | 0.    |         |      |        |         |
| 17   | 2.60  |         | 8.10 | < 0.10 | < 0.1   |
| 18   | 3.36  |         |      |        |         |
| 19   | 3.58  | 81.9    |      |        |         |
| 20   | 5.76  |         |      |        |         |
| 21   | 2.88  |         |      |        |         |
| 22   | 2.08  |         |      |        |         |
| 23   | 5.76  |         |      |        |         |
| 24   | 5.76  | 80.6    | 7.94 | < 0.10 | < 0.1   |
| 25   | 2.32  |         |      |        |         |
| 26   | 2.19  |         |      |        |         |
| 27   | 5.76  |         |      |        |         |
| 28   | 2.08  |         |      |        |         |
| 29   | 0.    |         |      |        |         |
| 30   | 1.64  |         |      |        |         |
| 31   | 5.76  |         | 8.12 |        |         |
| AVG  | 2.79  | 83.1    | 8.15 | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

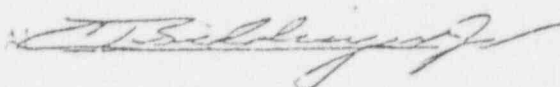
## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

APRIL, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP     | pH    | CL     | FREE CL |
|------|-------|----------|-------|--------|---------|
| AVG  | ---   | ---      | 6-9   | ---    | .2      |
| MAX  | ---   | ---      | 6-9   | ---    | .5      |
| UNIT | MGD   | DEG F    | S.U.  | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/2WK(1) | 1/2WK | 1/2WK  | 1/2WK   |
| 1    | 3.04  | 78.1     |       |        |         |
| 2    | 3.64  |          |       | < 0.10 | < 0.1   |
| 3    | 5.75  |          |       |        |         |
| 4    | 2.58  |          |       |        |         |
| 5    | 0.    |          |       |        |         |
| 6    | 0.82  |          |       |        |         |
| 7    | 5.76  |          |       |        |         |
| 8    | 3.00  |          |       |        |         |
| 9    | 0.    |          |       |        |         |
| 10   | 2.38  |          |       | < 0.10 | < 0.1   |
| 11   | 1.76  | 79.0     | 7.65  |        |         |
| 12   | 0.    |          |       |        |         |
| 13   | 2.46  |          |       |        |         |
| 14   | 5.76  | 68.0     | 7.89  |        |         |
| 15   | 3.05  |          |       |        |         |
| 16   | 0.    |          |       | < 0.10 | < 0.1   |
| 17   | 0.    |          |       |        |         |
| 18   | 0.    |          |       |        |         |
| 19   | 0.    |          |       |        |         |
| 20   | 0.    |          |       |        |         |
| 21   | 3.13  | 82.9     | 7.98  |        |         |
| 22   | 3.23  |          |       |        |         |
| 23   | 2.40  |          |       | < 0.10 | < 0.1   |
| 24   | 5.76  |          |       |        |         |
| 25   | 2.98  |          |       |        |         |
| 26   | 0.    |          |       |        |         |
| 27   | 2.20  |          |       |        |         |
| 28   | 5.76  |          |       | < 0.10 | < 0.1   |
| 29   | 5.76  |          |       |        |         |
| 30   | 3.17  | 81.9     | 8.13  |        |         |
| AVG  | 2.50  | 78.0     | 7.93  | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL 

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT


ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MAY, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL     | FREE CL |
|------|-------|---------|------|--------|---------|
| AVG  | ---   | ---     | 6-9  | ---    | .2      |
| MAX  | ---   | ---     | 6-9  | ---    | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/HK(1) | 1/HK | 1/HK   | 1/HK    |
| 1    | 1.72  |         |      |        |         |
| 2    | 2.93  |         |      |        |         |
| 3    | 0.    |         |      |        |         |
| 4    | 3.39  |         |      |        |         |
| 5    | 4.58  |         |      |        |         |
| 6    | 2.28  |         |      | < 0.10 | < 0.1   |
| 7    | 3.16  | 84.0    | 8.07 |        |         |
| 8    | 0.    |         |      |        |         |
| 9    | 0.    |         |      |        |         |
| 10   | 1.12  |         |      |        |         |
| 11   | 5.76  |         |      |        |         |
| 12   | 3.74  |         |      |        |         |
| 13   | 0.    |         |      | < 0.10 | < 0.1   |
| 14   | 1.20  | 86.0    | 8.24 |        |         |
| 15   | 2.28  |         |      |        |         |
| 16   | 5.52  |         |      |        |         |
| 17   | 2.88  |         |      |        |         |
| 18   | 0.    |         |      |        |         |
| 19   | 0.06  |         |      |        |         |
| 20   | 0.    |         |      |        |         |
| 21   | 2.40  | 84.2    | 8.20 | < 0.10 | < 0.1   |
| 22   | 5.76  |         |      |        |         |
| 23   | 3.70  |         |      |        |         |
| 24   | 0.    |         |      |        |         |
| 25   | 1.74  |         |      |        |         |
| 26   | 2.16  | 84.9    | 8.26 |        |         |
| 27   | 3.04  |         |      | < 0.10 | < 0.1   |
| 28   | 1.96  |         |      |        |         |
| 29   | 2.36  |         |      |        |         |
| 30   | 2.52  |         |      |        |         |
| 31   | 0.    |         |      |        |         |
| AVG  | 2.14  | 84.8    | 8.19 | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FAIRLEY NUCLEAR POWER PLANT

AL-0024619

JUNE, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | AVG  | MAX  | TEMP | PH  | CL  | FREE CL |
|------|------|------|------|-----|-----|---------|
| 0.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0     |
| 2    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0     |
| 3    | 2.22 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 4    | 1.10 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 5    | 3.30 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 6    | 1.70 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 7    | 2.94 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 8    | 5.75 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 9    | 1.90 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 10   | 2.70 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 11   | 2.01 | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 12   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 13   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 14   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 15   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 16   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 17   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 18   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 19   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 20   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 21   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 22   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 23   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 24   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 25   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 26   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 27   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 28   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 29   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 30   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 31   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 32   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 33   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 34   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 35   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 36   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 37   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 38   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 39   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 40   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 41   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 42   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 43   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 44   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 45   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 46   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 47   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 48   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 49   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 50   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 51   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 52   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 53   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 54   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 55   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 56   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 57   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 58   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 59   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 60   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 61   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 62   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 63   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 64   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 65   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 66   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 67   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 68   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 69   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 70   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 71   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 72   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 73   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 74   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 75   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 76   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 77   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 78   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 79   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 80   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 81   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 82   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 83   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 84   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 85   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 86   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 87   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 88   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 89   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 90   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 91   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 92   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 93   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 94   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 95   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 96   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 97   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 98   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 99   | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |
| 100  | 0.0  | 0.10 | 0.10 | 0.1 | 0.1 | 0.1     |

STATE OF ALABAMA  
COMMISSIONER OF REVENUE  
OFFICE OF THE COMMISSIONER  
MONTGOMERY, ALABAMA

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024519

JULY, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP     | pH    | CL                 | FREE CL |
|------|-------|----------|-------|--------------------|---------|
| AVG  | ---   | ---      | 6-9   | ---                | .2      |
| MAX  | ---   | ---      | 6-9   | ---                | .5      |
| UNIT | MGD   | DEG F    | S.U.  | MG/L               | MG/L    |
| FREQ | 1/DAY | 1/2WK(1) | 1/2WK | 1/2WK              | 1/2WK   |
| 1    | 0.    |          |       |                    |         |
| 2    | 0.    |          |       |                    |         |
| 3    | 0.    |          |       |                    |         |
| 4    | 0.    |          |       |                    |         |
| 5    | 0.    |          |       |                    |         |
| 6    | 0.    |          |       |                    |         |
| 7    | 0.    |          |       |                    |         |
| 8    | 0.    |          |       |                    |         |
| 9    | 0.    |          |       |                    |         |
| 10   | 0.    |          |       |                    |         |
| 11   | 0.    | 91.4     | 7.80  | < 0.10             | < 0.1   |
| 12   | 0.    |          |       |                    |         |
| 13   | 1.14  |          |       |                    |         |
| 14   | 3.40  |          |       |                    |         |
| 15   | 3.40  |          |       |                    |         |
| 16   | 3.40  |          |       |                    |         |
| 17   | 3.40  | 90.0     | 8.21  | Did not chlorinate |         |
| 18   | 3.40  |          |       |                    |         |
| 19   | 3.40  |          |       |                    |         |
| 20   | 3.40  |          |       |                    |         |
| 21   | 5.75  | 88.0     | 8.21  | Did not chlorinate |         |
| 22   | 5.75  |          |       |                    |         |
| 23   | 5.75  |          |       |                    |         |
| 24   | 5.75  |          |       |                    |         |
| 25   | 5.75  |          |       |                    |         |
| 26   | 5.75  |          |       |                    |         |
| 27   | 5.75  |          |       |                    |         |
| 28   | 5.75  | 88.0     | 8.54  |                    |         |
| 29   | 1.30  |          |       |                    |         |
| 30   | 0.    |          |       |                    |         |
| 31   | 0.    |          |       |                    |         |
| AVG  | 3.48  | 89.3     | 8.22  | < 0.10             | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

AUGUST, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL                 | FREE CL |
|------|-------|---------|------|--------------------|---------|
| AVG  | ---   | ---     | 6-9  | ---                | .2      |
| MAX  | ---   | ---     | 6-9  | ---                | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L               | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK               | 1/WK    |
| 1    | 0.04  |         |      |                    |         |
| 2    | 0.    |         |      | < 0.10             | < 0.1   |
| 3    | 1.22  |         |      |                    |         |
| 4    | 2.42  |         |      |                    |         |
| 5    | 3.16  | 93.0    | 8.33 | < 0.10             | < 0.1   |
| 6    | 3.36  |         |      |                    |         |
| 7    | 0.30  |         |      |                    |         |
| 8    | 5.13  |         |      |                    |         |
| 9    | 4.28  |         |      |                    |         |
| 10   | 5.76  |         |      |                    |         |
| 11   | 5.76  |         |      |                    |         |
| 12   | 5.76  | 95.0    | 8.21 | Did not chlorinate |         |
| 13   | 5.76  |         |      |                    |         |
| 14   | 5.76  |         |      |                    |         |
| 15   | 3.07  |         |      |                    |         |
| 16   | 0.    |         |      |                    |         |
| 17   | 0.    |         |      |                    |         |
| 18   | 0.    |         | 8.67 | < 0.10             | < 0.1   |
| 19   | 0.    |         |      |                    |         |
| 20   | 0.    |         |      |                    |         |
| 21   | 0.    |         |      |                    |         |
| 22   | 0.85  | 97.0    |      |                    |         |
| 23   | 3.10  |         |      |                    |         |
| 24   | 2.17  |         |      |                    |         |
| 25   | 2.26  |         |      |                    |         |
| 26   | 4.00  | 83.0    | 8.24 | < 0.10             | < 0.1   |
| 27   | 6.43  |         |      |                    |         |
| 28   | 6.43  |         |      |                    |         |
| 29   | 2.34  |         |      |                    |         |
| 30   | 0.    |         |      |                    |         |
| 31   | 0.    |         |      |                    |         |
| AVG  | 2.57  | 92.0    | 8.36 | < 0.10             | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

SEPTEMBER, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP     | pH    | CL     | FREE CL |
|------|-------|----------|-------|--------|---------|
| AVG  | ---   | ---      | 6-9   | ---    | .2      |
| MAX  | ---   | ---      | 6-9   | ---    | .5      |
| UNIT | MGD   | DEG F    | S.U.  | MG/L   | MG/L    |
| FREQ | 1/DAY | 1/2WK(1) | 1/2WK | 1/2WK  | 1/2WK   |
| 1    | 0.    |          |       |        |         |
| 2    | 0.    |          |       |        |         |
| 3    | 0.    |          |       |        |         |
| 4    | 1.72  | 39.0     | 8.20  | < 0.10 | < 0.1   |
| 5    | 3.00  |          |       |        |         |
| 6    | 0.    |          |       |        |         |
| 7    | 0.    |          |       |        |         |
| 8    | 3.25  | 90.0     | 8.85  | < 0.10 | < 0.1   |
| 9    | 5.75  |          |       |        |         |
| 10   | 3.20  |          |       |        |         |
| 11   | 1.02  |          |       |        |         |
| 12   | 2.93  |          |       |        |         |
| 13   | 1.05  |          |       |        |         |
| 14   | 5.75  |          |       |        |         |
| 15   | 1.83  | 88.0     | 8.69  |        |         |
| 16   | 0.    |          |       | < 0.10 | < 0.1   |
| 17   | 0.    |          |       |        |         |
| 18   | 0.    |          |       |        |         |
| 19   | 0.    |          |       |        |         |
| 20   | 4.70  |          |       |        |         |
| 21   | 5.75  |          |       |        |         |
| 22   | 5.75  |          |       |        |         |
| 23   | 5.75  |          |       |        |         |
| 24   | 2.64  | 84.9     | 8.17  | < 0.10 | < 0.1   |
| 25   | 0.    |          |       |        |         |
| 26   | 0.    |          |       |        |         |
| 27   | 0.    |          |       |        |         |
| 28   | 1.45  |          |       |        |         |
| 29   | 3.40  | 88.0     | 8.24  |        |         |
| 30   | 0.90  |          |       | < 0.10 | < 0.1   |
| AVG  | 2.00  | 88.0     | 8.43  | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICER



## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

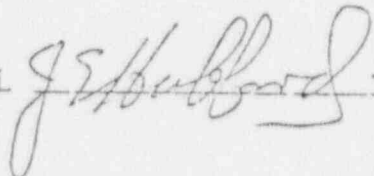
OCTOBER, 1990

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL   | FREE CL |
|------|-------|---------|------|------|---------|
| AVG  | ---   | ---     | 6-9  | ---  | .2      |
| MAX  | ---   | ---     | 6-9  | ---  | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK | 1/WK    |

|     |      |      |      |        |       |
|-----|------|------|------|--------|-------|
| 1   | 2.28 |      |      |        |       |
| 2   | 0.   |      |      |        |       |
| 3   | 1.23 |      |      |        |       |
| 4   | 0.   |      |      |        |       |
| 5   | 3.43 |      |      |        |       |
| 6   | 3.45 | 62.9 | 8.48 |        |       |
| 7   | 1.12 |      |      | < 0.10 | < 0.1 |
| 8   | 3.36 |      |      |        |       |
| 9   | 4.02 |      |      |        |       |
| 10  | 5.76 |      |      |        |       |
| 11  | 5.76 |      |      |        |       |
| 12  | 5.76 |      |      |        |       |
| 13  | 5.76 |      |      |        |       |
| 14  | 5.76 | 80.1 | 8.23 |        |       |
| 15  | 5.76 |      |      |        |       |
| 16  | 4.63 |      |      |        |       |
| 17  | 0.   |      |      |        |       |
| 18  | 2.76 |      |      | < 0.10 | < 0.1 |
| 19  | 5.76 |      |      |        |       |
| 20  | 2.01 | 79.0 | 8.26 |        |       |
| 21  | 2.64 |      |      | < 0.10 | < 0.1 |
| 22  | 4.87 |      |      |        |       |
| 23  | 0.82 |      |      |        |       |
| 24  | 5.76 |      |      |        |       |
| 25  | 5.76 |      |      |        |       |
| 26  | 5.75 |      |      |        |       |
| 27  | 4.34 | 83.0 | 8.12 |        |       |
| 28  | 1.02 |      |      | < 0.10 | < 0.1 |
| 29  | 2.02 |      |      |        |       |
| 30  | 0.   |      |      |        |       |
| 31  | 0.   |      |      |        |       |
| AVG | 3.30 | 81.2 | 8.27 | < 0.10 | < 0.1 |

SIGNATURE OF RESPONSIBLE OFFICIAL

 For C. B. Dinger

# DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

NOVEMBER, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL     | FREE CL |
|------|-------|---------|------|--------|---------|
| TIME | MGD   | DEG F   | S.U. | MG/L   | MG/L    |
| UNIT | 1/DAY | 1/2K(1) | 1/2K | 1/2K   | 1/2K    |
| 1    | 0.    |         |      |        |         |
| 2    | 2.20  |         |      |        |         |
| 3    | 1.92  |         |      |        |         |
| 4    | 0.    |         |      |        |         |
| 5    | 2.10  | 79.0    | 8.38 | < 0.10 | < 0.1   |
| 6    | 3.84  |         |      |        |         |
| 7    | 2.48  |         |      |        |         |
| 8    | 6.76  |         |      |        |         |
| 9    | 0.04  |         |      |        |         |
| 10   | 1.63  |         |      |        |         |
| 11   | 0.    |         |      |        |         |
| 12   | 0.    |         |      |        |         |
| 13   | 0.    |         |      |        |         |
| 14   | 0.    |         |      |        |         |
| 15   | 0.    |         |      |        |         |
| 16   | 0.    |         |      |        |         |
| 17   | 0.    |         |      |        |         |
| 18   | 0.    |         |      |        |         |
| 19   | 0.    |         |      |        |         |
| 20   | 0.    |         |      |        |         |
| 21   | 0.    |         |      |        |         |
| 22   | 0.    |         |      |        |         |
| 23   | 0.    |         |      |        |         |
| 24   | 0.    |         |      |        |         |
| 25   | 0.    |         |      |        |         |
| 26   | 0.    |         |      |        |         |
| 27   | 0.    |         |      |        |         |
| 28   | 0.    |         |      |        |         |
| 29   | 0.    |         |      |        |         |
| 30   | 0.    |         |      |        |         |
| 11/7 | 1.62  | 79.0    | 8.38 | < 0.10 | < 0.1   |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*

# DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

DECEMBER, 1980

DISCHARGE 002A: COOLING TOWER BLOWDOWN - UNIT 1

| DATE | FLOW  | TEMP    | pH   | CL   | FREE CL |
|------|-------|---------|------|------|---------|
| AVG  | ---   | ---     | 6-9  | ---  | .2      |
| MAX  | ---   | ---     | 6-9  | ---  | .5      |
| UNIT | MGD   | DEG F   | S.U. | MG/L | MG/L    |
| FREQ | 1/DAY | 1/WK(1) | 1/WK | 1/WK | 1/WK    |
| 1    | 0.    |         |      |      |         |
| 2    | 0.    |         |      |      |         |
| 3    | 0.    |         |      |      |         |
| 4    | 0.    |         |      |      |         |
| 5    | 0.    |         |      |      |         |
| 6    | 0.    |         |      |      |         |
| 7    | 0.    |         |      |      |         |
| 8    | 0.    |         |      |      |         |
| 9    | 0.    |         |      |      |         |
| 10   | 0.    |         |      |      |         |
| 11   | 0.    |         |      |      |         |
| 12   | 0.    |         |      |      |         |
| 13   | 0.    |         |      |      |         |
| 14   | 0.    |         |      |      |         |
| 15   | 0.    |         |      |      |         |
| 16   | 0.    |         |      |      |         |
| 17   | 0.    |         |      |      |         |
| 18   | 0.    |         |      |      |         |
| 19   | 0.    |         |      |      |         |
| 20   | 0.    |         |      |      |         |
| 21   | 0.    |         |      |      |         |
| 22   | 0.    |         |      |      |         |
| 23   | 0.    |         |      |      |         |
| 24   | 0.    |         |      |      |         |
| 25   | 0.    |         |      |      |         |
| 26   | 0.    |         |      |      |         |
| 27   | 0.    |         |      |      |         |
| 28   | 0.    |         |      |      |         |
| 29   | 0.    |         |      |      |         |
| 30   | 0.    |         |      |      |         |
| 31   | 0.    |         |      |      |         |

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. S. Hubbard* for C. Biddinger

ATTACHMENT III

Turbine Building Sump  
(DSN 004)

February 15, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

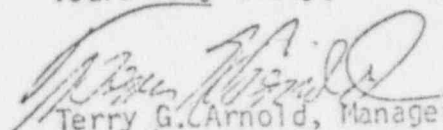
Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a non-compliance report for violations which occurred at the referenced plant. On February 3, 1980, 25,320 gallons of water were discharged from the turbine building sump, discharge point 004A. An analysis of the water for oil and grease gave a concentration of 0.092 ppm; however, the concentration was actually 92 ppm. This error occurred because the equation used for calculating the oil and grease was misread. To help prevent the recurrence of this error, the procedure used to calculate the oil and grease concentration has been revised.

The steam generator blowdown, discharge point 003A, was found by an analysis performed on February 5, 1980, to have a copper concentration of 1.74 ppm. This non-compliance was caused by oxygen leaking into the system. This oxygen, along with the ammonia in the steam generator, produced a corrosive effect on the copper piping. Steps are underway to reduce leakage of oxygen into the system.

If you have any questions, please contact me.

Yours very truly,

  
Terry G. Arnold, Manager  
Environmental and Research Services

FVB/y

bcc: Mr. R. P. McDonald  
Mr. H. O. Thrash  
Mr. O. D. Kingsley  
Mr. W. M. Jackson  
Mr. Rod Baine  
Mr. F. V. Brown

File: T(7) 1306 ✓

Alabama Power Company  
600 North 18th Street  
Post Office Box 2541  
Birmingham, Alabama 35291  
Telephone 205 323-5341



Alabama Power

*the southern electric system*

August 12, 1980

Farley Nuclear Plant  
NPDES Permit No. AL0024619

Mr. J. P. Martin  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Martin:

During the period of July 29 through August 1, 1980, we reported violations of the oil and grease concentration limitations for the turbine building sump (discharge serial number 004) for the referenced permit. These oil and grease violations were thought to have occurred when an EHC fluid line ruptured. EHC fluid is a man-made triaryl phosphate ester which analyzes as oil and grease. When samples were analyzed by the plant laboratory, the analyses indicated a violation of the oil and grease concentration limitation. However, when the samples were later analyzed by a commercial laboratory and by the Company's central testing laboratory, doubts were raised as to whether these violations actually occurred. The sequence of events surrounding these reported violations are given below:

At approximately 1030 on July 29, 1980, an EHC fluid line to the main turbine #4 governor valve ruptured spilling fluid onto the turbine and the floors under the turbine including the turbine building basement. Since it was assumed that some of the fluid had or would ultimately flow into the sumps, the sumps' discharge valves were closed. The sumps were almost full just prior to the rupturing of the EHC fluid line. Following the EHC fluid line rupture the reactor tripped, and the 68 high pressure feedwater heater (water side) relief valve lifted discharging an excessive amount of feedwater to the sumps. The sumps overflowed and the turbine building basement ultimately became covered with water to an average depth of four inches. The water level was threatening to reach electrical equipment such that a serious personnel and equipment safety hazard developed. Since the influent could not be stopped at that time, discharge of the waste water was necessary to alleviate the safety hazard. To help minimize the impact of this discharge, the flow was directed through an oil separator. However, we later determined that the fluid was heavier than water and the separator would



Mr. J. P. Martin  
Page 2  
August 12, 1980

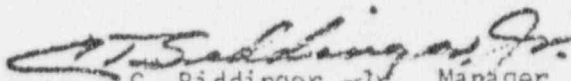
not have removed it. The flow was left in this configuration in case any of the water contained any "natural" oil and grease. While the waste water was being directed through the oil separator, the discharge was released to the environment through a storm drain instead of through the normal discharge point.

The reason this violation was reported was that analyses performed by the plant laboratory was apparently in error because of contaminated solvents used in the extraction. Values obtained from the Company's central test laboratory and the Polyengineering laboratory will be used for reporting purposes. The values obtained by these laboratories gave concentrations which were within the concentration limit. However, the pounds per day limitation was exceeded.

To investigate the environmental impact of any EHC fluid which might have reached the environment, the Company's biologist investigated the discharges at Farley to determine if any environmental impact occurred. No stresses on the environment were observed.

If you have any questions, please contact us.

Very truly yours,



C. Biddinger, Jr., Manager  
Environmental and Research Services

FVB:y



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

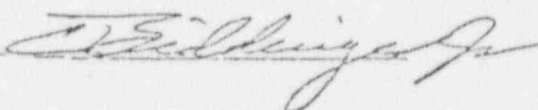
JANUARY, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW | pH   | TSS  | D & G |
|------|------|------|------|-------|
| AVG  | ---  | 6-9  | 6.3  | 3.1   |
| MAX  | ---  | 6-9  | 20.9 | 4.2   |
| UNIT | MGD  | S.U. | PPD  | PPD   |
| FREQ | 1/MK | 1/MK | 1/MK | 1/MK  |

|     |        |      |      |      |
|-----|--------|------|------|------|
| 1   |        |      |      |      |
| 2   |        |      |      |      |
| 3   |        |      |      |      |
| 4   |        |      |      |      |
| 5   |        |      |      |      |
| 6   |        |      |      |      |
| 7   |        |      |      |      |
| 8   | 0.0164 | 6.85 | 1.23 | 1.80 |
| 9   |        |      |      |      |
| 10  |        |      |      |      |
| 11  |        |      |      |      |
| 12  |        |      |      |      |
| 13  |        |      |      |      |
| 14  | 0.0211 | 7.49 | 0.53 | 1.02 |
| 15  |        |      |      |      |
| 16  |        |      |      |      |
| 17  |        |      |      |      |
| 18  |        |      |      |      |
| 19  |        |      |      |      |
| 20  |        |      |      |      |
| 21  |        |      |      |      |
| 22  | 0.0164 | 7.81 | 0.41 | 0.22 |
| 23  |        |      |      |      |
| 24  |        |      |      |      |
| 25  |        |      |      |      |
| 26  |        |      |      |      |
| 27  |        |      |      |      |
| 28  | 0.0143 | 7.80 | 0.25 |      |
| 29  |        |      |      |      |
| 30  |        |      |      |      |
| 31  |        |      |      |      |
| AVG | 0.0171 | 7.49 | 0.60 | 0.97 |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024519

FEBRUARY, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW | pH   | TSS  | D & G |
|------|------|------|------|-------|
| AVG  | ---  | 8-9  | 6.3  | 3.1   |
| MAX  | ---  | 8-9  | 20.9 | 4.2   |
| UNIT | ASD  | S.U. | PPD  | PPD   |
| FREQ | 1/6K | 1/6K | 1/6K | 1/6K  |

|     |        |      |        |       |
|-----|--------|------|--------|-------|
| 1   |        |      |        |       |
| 2   |        |      |        |       |
| 3   | 0.0253 |      |        | 19.44 |
| 4   |        |      |        |       |
| 5   | 0.0163 | 7.78 | 5.05   | 3.45  |
| 6   |        |      |        |       |
| 7   |        |      |        |       |
| 8   |        |      |        |       |
| 9   |        |      |        |       |
| 10  |        |      |        |       |
| 11  | 0.0137 | 7.14 | < 0.11 | 0.35  |
| 12  |        |      |        |       |
| 13  |        |      |        |       |
| 14  |        |      |        |       |
| 15  |        |      |        |       |
| 16  |        |      |        |       |
| 17  |        |      |        |       |
| 18  |        |      |        |       |
| 19  |        |      |        |       |
| 20  | 0.0168 | 7.82 | 1.82   | 2.14  |
| 21  |        |      |        |       |
| 22  |        |      |        |       |
| 23  |        |      |        |       |
| 24  |        |      |        |       |
| 25  |        |      |        |       |
| 26  | 0.0169 | 6.98 | 1.27   | 0.85  |
| 27  |        |      |        |       |
| 28  |        |      |        |       |
| 29  |        |      |        |       |
| AVG | 0.0179 | 7.43 | 2.29   | 5.25  |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

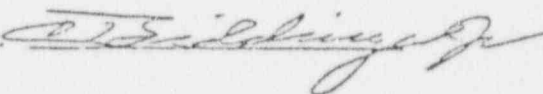
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | O & G |
|------|--------|------|------|-------|
| AVG  | ----   | 6-9  | 6.3  | 3.1   |
| MAX  | ----   | 6-9  | 20.9 | 4.2   |
| UNIT | MGD    | S.U. | PPD  | PPD   |
| FREQ | 1/WK   | 1/WK | 1/WK | 1/WK  |
| 1    |        |      |      |       |
| 2    |        |      |      |       |
| 3    |        |      |      |       |
| 4    |        |      |      |       |
| 5    | 0.0162 | 8.13 | 1.08 | 0.84  |
| 6    |        |      |      |       |
| 7    |        |      |      |       |
| 8    |        |      |      |       |
| 9    |        |      |      |       |
| 10   | 0.0211 | 6.93 | 1.06 | 0.74  |
| 11   |        |      |      |       |
| 12   |        |      |      |       |
| 13   |        |      |      |       |
| 14   |        |      |      |       |
| 15   |        |      |      |       |
| 16   |        |      |      |       |
| 17   | 0.0190 | 6.70 | 0.95 | 0.95  |
| 18   |        |      |      |       |
| 19   |        |      |      |       |
| 20   |        |      |      |       |
| 21   |        |      |      |       |
| 22   |        |      |      |       |
| 23   |        |      |      |       |
| 24   | 0.0211 | 6.84 | 1.41 | 0.85  |
| 25   |        |      |      |       |
| 26   |        |      |      |       |
| 27   |        |      |      |       |
| 28   |        |      |      |       |
| 29   |        |      |      |       |
| 30   |        |      |      |       |
| 31   | 0.0109 | 8.33 | 0.73 | 0.62  |
| AVG  | 0.0177 | 7.39 | 1.05 | 0.80  |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

APRIL, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW | pH   | TSS  | O & G |
|------|------|------|------|-------|
| AVG  | ---  | 6-9  | 6.3  | 3.1   |
| MAX  | ---  | 6-9  | 20.9 | 4.2   |
| UNIT | MGD  | S.U. | PPD  | PPD   |
| FREQ | 1/2K | 1/2K | 1/2K | 1/2K  |

1  
2  
3  
4  
5  
6  
7  
8  
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25  
26  
27  
28  
29  
30

0.0464 7.01 4.26 2.05

0.0158 7.15 0.79 0.86

0.0232 6.89 7.94 2.19

AVG 0.0235 7.02 4.33 1.70

SIGNATURE OF RESPONSIBLE OFFICIAL

*E. B. Henderson Jr.*

## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

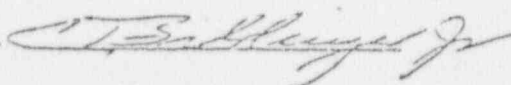
AL-0024619

MAY, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | O & G |
|------|--------|------|------|-------|
| AVG  | ---    | 5-9  | 6.3  | 3.1   |
| MAX  | ---    | 5-9  | 20.9 | 4.2   |
| UNIT | MGD    | S.U. | PPD  | PPD   |
| FREQ | 1/HK   | 1/HK | 1/HK | 1/HK  |
| 1    | 0.0232 | 8.57 | 0.97 | 0.74  |
| 2    |        |      |      |       |
| 3    |        |      |      |       |
| 4    |        |      |      |       |
| 5    |        |      |      |       |
| 6    |        |      |      |       |
| 7    | 0.0190 | 7.00 | 0.32 | 0.63  |
| 8    |        |      |      |       |
| 9    |        |      |      |       |
| 10   |        |      |      |       |
| 11   |        |      |      |       |
| 12   |        |      |      |       |
| 13   | 0.0211 | 7.96 | 1.58 | 0.83  |
| 14   |        |      |      |       |
| 15   |        |      |      |       |
| 16   |        |      |      |       |
| 17   |        |      |      |       |
| 18   |        |      |      |       |
| 19   | 0.0190 | 7.35 | 0.63 | 0.29  |
| 20   |        |      |      |       |
| 21   |        |      |      |       |
| 22   |        |      |      |       |
| 23   |        |      |      |       |
| 24   |        |      |      |       |
| 25   |        |      |      |       |
| 26   | 0.0211 | 7.87 | 0.70 | 0.37  |
| 27   |        |      |      |       |
| 28   |        |      |      |       |
| 29   |        |      |      |       |
| 30   |        |      |      |       |
| 31   |        |      |      |       |
| AVG  | 0.0207 | 7.75 | 0.84 | 0.57  |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

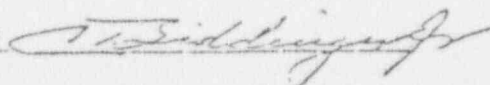
ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

JUNE, 1980

DISCHARGE 0044: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | 0 & 0 |
|------|--------|------|------|-------|
| AVG  | ---    | 6-9  | 6.3  | 3.1   |
| MAX  | ---    | 6-9  | 20.9 | 4.2   |
| UNIT | MGD    | S.U. | PPD  | PPD   |
| FREQ | 1/HR   | 1/HR | 1/HR | 1/HR  |
| 1    |        |      |      |       |
| 2    | 0.0143 | 7.46 | 0.37 | 0.20  |
| 3    |        |      |      |       |
| 4    |        |      |      |       |
| 5    |        |      |      |       |
| 6    |        |      |      |       |
| 7    |        |      |      |       |
| 8    |        |      |      |       |
| 9    | 0.0211 | 7.35 | 1.06 | 0.90  |
| 10   |        |      |      |       |
| 11   |        |      |      |       |
| 12   |        |      |      |       |
| 13   |        |      |      |       |
| 14   |        |      |      |       |
| 15   |        |      |      |       |
| 16   |        |      |      |       |
| 17   |        |      |      |       |
| 18   |        |      |      |       |
| 19   | 0.0139 | 7.15 | 0.95 | 0.39  |
| 20   |        |      |      |       |
| 21   |        |      |      |       |
| 22   |        |      |      |       |
| 23   | 0.0179 | 6.37 | 0.90 | 0.25  |
| 24   |        |      |      |       |
| 25   |        |      |      |       |
| 26   |        |      |      |       |
| 27   |        |      |      |       |
| 28   |        |      |      |       |
| 29   |        |      |      |       |
| 30   | 0.0163 | 6.80 | 2.24 | 0.41  |
| AVG  | 0.0172 | 7.03 | 1.10 | 0.43  |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

JULY, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | D & G  |
|------|--------|------|------|--------|
| AVG  | ---    | 5-9  | 6.3  | 3.1    |
| MAX  | ---    | 5-9  | 20.9 | 4.2    |
| UNIT | MGD    | S.U. | PPD  | PPD    |
| FREQ | 1/4K   | 1/4K | 1/4K | 1/4K   |
| 1    |        |      |      |        |
| 2    |        |      |      |        |
| 3    |        |      |      |        |
| 4    |        |      |      |        |
| 5    |        |      |      |        |
| 6    |        |      |      |        |
| 7    | 0.0190 | 6.99 | 0.32 | < 0.16 |
| 8    |        |      |      |        |
| 9    |        |      |      |        |
| 10   |        |      |      |        |
| 11   |        |      |      |        |
| 12   |        |      |      |        |
| 13   |        |      |      |        |
| 14   | 0.0190 | 8.10 | 0.32 | 0.17   |
| 15   |        |      |      |        |
| 16   |        |      |      |        |
| 17   |        |      |      |        |
| 18   |        |      |      |        |
| 19   |        |      |      |        |
| 20   |        |      |      |        |
| 21   | 0.     | 7.91 | 0.36 | 0.22   |
| 22   |        |      |      |        |
| 23   |        |      |      |        |
| 24   |        |      |      |        |
| 25   |        |      |      |        |
| 26   |        |      |      |        |
| 27   |        |      |      |        |
| 28   | 0.0200 | 7.83 | 0.17 | < 0.17 |
| 29   |        |      |      |        |
| 30   |        |      |      |        |
| 31   |        |      |      |        |
| AVG  | 0.0145 | 7.71 | 0.23 | < 0.12 |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

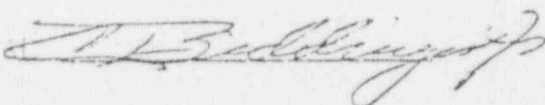
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

AUGUST, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | O & G  |
|------|--------|------|------|--------|
| AVG  | ---    | 6-9  | 6.3  | 3.1    |
| MAX  | ---    | 6-9  | 20.9 | 4.2    |
| UNIT | MGD    | S.U. | PPD  | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK | 1/WK   |
| 1    |        |      |      |        |
| 2    |        |      |      |        |
| 3    |        |      |      |        |
| 4    |        |      |      |        |
| 5    |        |      |      |        |
| 6    |        |      |      |        |
| 7    |        |      |      |        |
| 8    | 0.0153 | 8.20 | 0.26 | < 0.13 |
| 9    |        |      |      |        |
| 10   |        |      |      |        |
| 11   |        |      |      |        |
| 12   | 0.0211 | 7.73 | 0.70 | < 0.13 |
| 13   |        |      |      |        |
| 14   |        |      |      |        |
| 15   |        |      |      |        |
| 16   |        |      |      |        |
| 17   |        |      |      |        |
| 18   | 0.0232 | 8.32 | 0.39 | < 0.19 |
| 19   |        |      |      |        |
| 20   |        |      |      |        |
| 21   |        |      |      |        |
| 22   |        |      |      |        |
| 23   |        |      |      |        |
| 24   |        |      |      |        |
| 25   | 0.0215 | 8.44 | 0.18 | < 0.13 |
| 26   |        |      |      |        |
| 27   |        |      |      |        |
| 28   |        |      |      |        |
| 29   |        |      |      |        |
| 30   |        |      |      |        |
| 31   |        |      |      |        |
| AVG  | 0.0204 | 8.17 | 0.33 | < 0.17 |

SIGNATURE OF RESPONSIBLE OFFICIAL





# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

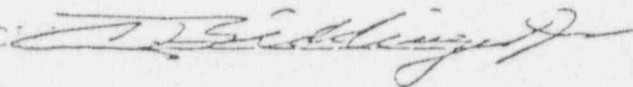
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024612

SEPTEMBER, 1980

DISCHARGE 00-4A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | PH   | TSS  | 0 & G  |
|------|--------|------|------|--------|
| AVG  | ---    | 6-9  | 6.3  | 3.1    |
| MAX  | ---    | 6-9  | 20.9 | 4.2    |
| UNIT | MGD    | S.U. | PPD  | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK | 1/WK   |
| 1    | 0.0042 | 8.02 | 0.04 | < 0.04 |
| 2    |        |      |      |        |
| 3    |        |      |      |        |
| 4    |        |      |      |        |
| 5    |        |      |      |        |
| 6    |        |      |      |        |
| 7    |        |      |      |        |
| 8    | 0.0137 | 8.60 | 0.57 | < 0.11 |
| 9    |        |      |      |        |
| 10   |        |      |      |        |
| 11   |        |      |      |        |
| 12   |        |      |      |        |
| 13   |        |      |      |        |
| 14   |        |      |      |        |
| 15   | 0.0190 | 7.91 | 0.79 | < 0.16 |
| 16   |        |      |      |        |
| 17   |        |      |      |        |
| 18   |        |      |      |        |
| 19   |        |      |      |        |
| 20   |        |      |      |        |
| 21   |        |      |      |        |
| 22   | 0.0127 | 7.95 | 0.11 | < 0.11 |
| 23   |        |      |      |        |
| 24   |        |      |      |        |
| 25   |        |      |      |        |
| 26   |        |      |      |        |
| 27   |        |      |      |        |
| 28   |        |      |      |        |
| 29   | 0.0190 | 7.90 | 0.32 | < 0.16 |
| 30   |        |      |      |        |
| AVG  | 0.0137 | 8.08 | 0.35 | < 0.11 |

SIGNATURE OF RESPONSIBLE OFFICER



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

OCTOBER, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW | pH   | TSS  | O & G |
|------|------|------|------|-------|
| AVG  | ---  | 6-9  | 6.3  | 3.1   |
| MAX  | ---  | 6-9  | 20.9 | 4.2   |
| UNIT | MGD  | S.U. | PPD  | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK | 1/WK  |

|     |        |      |      |        |
|-----|--------|------|------|--------|
| 1   |        |      |      |        |
| 2   |        |      |      |        |
| 3   |        |      |      |        |
| 4   |        |      |      |        |
| 5   |        |      |      |        |
| 6   | 0.0127 | 8.09 | 0.32 | < 0.11 |
| 7   |        |      |      |        |
| 8   |        |      |      |        |
| 9   |        |      |      |        |
| 10  |        |      |      |        |
| 11  |        |      |      |        |
| 12  | 0.0200 | 8.07 | 0.33 | < 0.17 |
| 13  |        |      |      |        |
| 14  |        |      |      |        |
| 15  |        |      |      |        |
| 16  |        |      |      |        |
| 17  |        |      |      |        |
| 18  |        |      |      |        |
| 19  |        |      |      |        |
| 20  | 0.0211 | 8.31 | 0.18 | < 0.13 |
| 21  |        |      |      |        |
| 22  |        |      |      |        |
| 23  |        |      |      |        |
| 24  |        |      |      |        |
| 25  |        |      |      |        |
| 26  | 0.0211 | 8.07 | 1.23 | < 0.18 |
| 27  |        |      |      |        |
| 28  |        |      |      |        |
| 29  |        |      |      |        |
| 30  |        |      |      |        |
| 31  |        |      |      |        |
| AVG | 0.0187 | 8.13 | 0.52 | < 0.16 |

SIGNATURE OF RESPONSIBLE OFFICIAL

*For C. Billinger Jr.*

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

NOVEMBER, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | 0 & G  |
|------|--------|------|------|--------|
| AVG  | ---    | 6-9  | 6.3  | 3.1    |
| MAX  | ---    | 6-9  | 20.9 | 4.2    |
| UNIT | MGD    | S.U. | PPD  | PPD    |
| PRIO | 1/4K   | 1/4K | 1/4K | 1/4K   |
| 1    |        |      |      |        |
| 2    |        |      |      |        |
| 3    |        |      |      |        |
| 4    | 0.0149 | 8.21 | 0.12 | < 0.12 |
| 5    |        |      |      |        |
| 6    |        |      |      |        |
| 7    |        |      |      |        |
| 8    |        |      |      |        |
| 9    | 0.0211 | 8.21 | 1.23 | < 0.18 |
| 10   |        |      |      |        |
| 11   |        |      |      |        |
| 12   |        |      |      |        |
| 13   |        |      |      |        |
| 14   |        |      |      |        |
| 15   |        |      |      |        |
| 16   |        |      |      |        |
| 17   | 0.2110 | 7.57 | 1.76 | < 1.75 |
| 18   |        |      |      |        |
| 19   |        |      |      |        |
| 20   |        |      |      |        |
| 21   |        |      |      |        |
| 22   |        |      |      |        |
| 23   |        |      |      |        |
| 24   | 0.0143 | 7.91 | 0.25 | < 0.12 |
| 25   |        |      |      |        |
| 26   |        |      |      |        |
| 27   |        |      |      |        |
| 28   |        |      |      |        |
| 29   |        |      |      |        |
| 30   |        |      |      |        |
| AVG  | 0.0554 | 7.98 | 0.84 | < 0.55 |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

DECEMBER, 1980

DISCHARGE 004A: TURBINE BUILDING SUMP - UNIT 1

| DATE | FLOW   | pH   | TSS  | O & G  |
|------|--------|------|------|--------|
| AVG  | ---    | 6-9  | 6.3  | 3.1    |
| MAX  | ---    | 6-9  | 20.9 | 4.2    |
| UNIT | MGD    | S.U. | PPD  | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK | 1/WK   |
| 1    | 0.0116 | 6.87 | 0.10 | < 0.10 |
| 2    |        |      |      |        |
| 3    |        |      |      |        |
| 4    |        |      |      |        |
| 5    |        |      |      |        |
| 6    |        |      |      |        |
| 7    |        |      |      |        |
| 8    |        |      |      |        |
| 9    | 0.0232 | 3.08 | 0.19 | 0.39   |
| 10   |        |      |      |        |
| 11   |        |      |      |        |
| 12   |        |      |      |        |
| 13   |        |      |      |        |
| 14   |        |      |      |        |
| 15   |        |      |      |        |
| 16   |        |      |      |        |
| 17   |        |      |      |        |
| 18   |        |      |      |        |
| 19   | 0.0274 | 7.03 | 0.23 | < 0.23 |
| 20   |        |      |      |        |
| 21   |        |      |      |        |
| 22   |        |      |      |        |
| 23   |        |      |      |        |
| 24   |        |      |      |        |
| 25   |        |      |      |        |
| 26   |        |      |      |        |
| 27   | 0.0316 | 6.87 | 1.53 | < 0.26 |
| 28   |        |      |      |        |
| 29   |        |      |      |        |
| 30   |        |      |      |        |
| 31   |        |      |      |        |
| AVG  | 0.0235 | 7.21 | 0.53 | < 0.20 |

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. S. Hubbard* for C. Biddinger Jr

ATTACHMENT IV

Settling Basin  
(DSN 005)

NOTE: Occasionally pH reading was not determined  
because the flow at the time of analysis  
was zero.

  
ALABAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2641  
BIRMINGHAM, ALABAMA 35291 — (205) 323-5341

June 6, 1980

Mr. James W. Warr  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

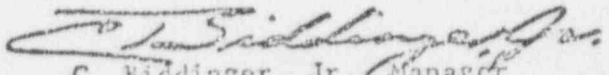
In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance that occurred as indicated by an analysis performed on June 2, 1980, for the waste settling pond effluent (Discharge Point 005). Analysis of the effluent gave a pH of 10.88.

During April, 1980, lime was placed in the waste settling pond to neutralize sulfuric acid which had been transferred to the pond from a damaged storage tank. The acid was neutralized and no problem was encountered through the end of May. However, starting on May 6, 1980, clarified water was discharged to the pond as part of the clarifier preoperational testing. Apparently the turbulence caused by the addition of clarified water assisted in gradually dissolving the layer of calcium sulfate which had formed over the lime when the acid was neutralized by the lime. Once the layer was dissolved, the unreacted lime was exposed causing the pH to exceed the upper limit.

To prevent the recurrence of this violation, the discharge of the clarified water to the ash pond has been terminated. Acid will be added to the pond to reduce the pH and to neutralize the lime.

If you have any questions, please contact me.

Yours truly,

  
C. Biddinger, Jr. Manager  
Environmental and Research Services

FVB/y

June 16, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

Dear Mr. Warr:


In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance report for violations which occurred at the referenced plant. The waste settling pond, discharge point 005, exceeded the kilograms per day limitation for oil and grease (O&G) and for total suspended solids (TSS). These violations occurred on April 13, 1980, when 717 kilograms of TSS and 64.9 kilograms of O&G were discharged.

From March 22, 1980, through April 13, 1980, the discharge from the waste settling pond was closed to allow treatment of sulfuric acid which had been transferred to the pond from a damaged storage tank. The acid was successfully treated. However, during this time period the pond was receiving waste water from the water treatment plant and had reached its full capacity. The water was found to be within limits on TSS and O&G and was therefore discharged. The concentrations of TSS and O&G were 21 mg/l and 1.9 mg/l respectively, but the large flow of 9.10 million gallons of water caused the kilograms per day limitations to be exceeded. To prevent similar occurrences, the flow rate will be limited to ensure that kilograms per day limitations are not exceeded.

We apologize for the late reporting of this noncompliance. This noncompliance was not recognized earlier because of an error in waiting for the discharge quantities to be calculated by the computer instead of calculating the quantities immediately. In the future all discharge quantities will be calculated immediately upon determination of the concentration of the appropriate parameter.

If you have any questions, please call me.

Yours truly,

  
C. Biddinger, Jr. Manager  
Environmental and Research Services

FVB/y



Alabama Power Company  
600 North 18th Street  
Post Office Box 2641  
Birmingham, Alabama 35291  
Telephone 205 323-5341



Alabama Power

the southern electric system

July 8, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

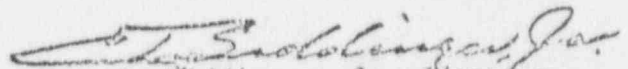
Dear Mr. Warr:

In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance report for a violation which occurred at the referenced plant. An analysis performed on July 2, 1980, indicated a pH of 9.25 for the waste settling pond (discharge point 005).

As indicated in our June 6, 1980, letter, sulfuric acid from a damaged storage tank was transferred to the waste settling pond and was neutralized by bulk lime addition. Consequently, the lime that did not immediately react settled to the bottom. This lime has been slowly dissolving driving the pH above the 9.0 limit.

When the violation was detected, the discharge valve of the waste settling pond was closed off. Since the efforts described in the June 6, 1980, letter were successful in keeping the pH within limits until the present noncompliance was detected, similar steps have been instituted to insure that future discharges are below the 9.0 limit.

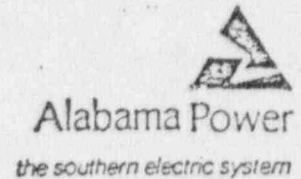
Yours very truly,

  
C. Biddinger, Jr., Manager  
Environmental and Research Services

SAJ:y



Alabama Power Company  
600 North 18th Street  
Post Office Box 2641  
Birmingham, Alabama 35291  
Telephone 205 323-5341



September 16, 1980

Farley Nuclear Plant  
NPDES Permit No. AL0024619

Mr. James W. Warr  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

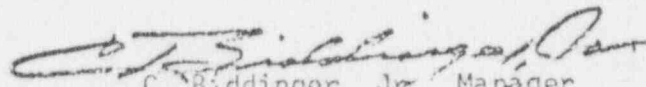
Dear Mr. Warr:

In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance report for a violation which occurred at the referenced plant. An analysis performed on September 8, 1980, indicated a pH of 10.0 for the waste settling pond (Discharge Point 005).

As has been explained in letters on June 6, 1980, and July 8, 1980, the problem stems from an acid tank leak which occurred in April, 1980. The acid was neutralized by excess lime. The lime continues to dissolve causing the high pH values.

Attempts to neutralize the lime with acid have resulted in lower pH values but does not appear to be a long term solution since the pH ultimately increases above 9.0. We are investigating dredging the lime from the pond as a long term solution to insure the pH stays within discharge limits.

Very truly yours,

  
C. Biddinger, Jr., Manager  
Environmental and Research Services

SAJ:y

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

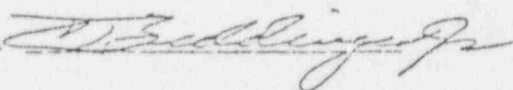
ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024519

JANUARY, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW   | pH   | TSS   | O & G  |
|------|--------|------|-------|--------|
| AVG  | ---    | 6-9  | 50.0  | 25.0   |
| MAX  | ---    | 6-9  | 167.0 | 33.4   |
| UNIT | MGD    | S.U. | PPD   | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK  | 1/WK   |
| 1    |        |      |       |        |
| 2    |        |      |       |        |
| 3    |        |      |       |        |
| 4    | 0.0016 | 7.03 | 0.05  | 0.03   |
| 5    |        |      |       |        |
| 6    |        |      |       |        |
| 7    | 0.0137 | 6.80 | 0.62  | 0.27   |
| 8    |        |      |       |        |
| 9    |        |      |       |        |
| 10   |        |      |       |        |
| 11   |        |      |       |        |
| 12   |        |      |       |        |
| 13   |        |      |       |        |
| 14   | 0.0137 | 6.42 | 1.55  | < 0.16 |
| 15   |        |      |       |        |
| 16   |        |      |       |        |
| 17   |        |      |       |        |
| 18   |        |      |       |        |
| 19   |        |      |       |        |
| 20   |        |      |       |        |
| 21   |        |      |       |        |
| 22   |        |      |       |        |
| 23   |        |      |       |        |
| 24   | 0.0336 | 7.89 | 0.23  |        |
| 25   |        |      |       |        |
| 26   |        |      |       |        |
| 27   |        |      |       |        |
| 28   | 0.0533 | 6.98 | 1.78  | 0.53   |
| 29   |        |      |       |        |
| 30   |        |      |       |        |
| 31   |        |      |       |        |
| AVG  | 0.0252 | 7.02 | 0.85  | 0.26   |

SIGNATURE OF RESPONSIBLE OFFICIAL



ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

FEBRUARY, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | O & G |
|------|------|------|-------|-------|
| AVG  | ---  | 6-9  | 50.0  | 25.0  |
| MAX  | ---  | 6-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK  | 1/WK  |

|     |        |      |        |        |
|-----|--------|------|--------|--------|
| 1   |        |      |        |        |
| 2   |        |      |        |        |
| 3   |        |      |        |        |
| 4   | 0.0187 | 6.90 | < 0.16 | < 0.16 |
| 5   |        |      |        |        |
| 6   |        |      |        |        |
| 7   |        |      |        |        |
| 8   |        |      |        |        |
| 9   |        |      |        |        |
| 10  |        |      |        |        |
| 11  |        |      |        |        |
| 12  | 0.0187 | 6.85 | 1.40   | 0.16   |
| 13  |        |      |        |        |
| 14  |        |      |        |        |
| 15  |        |      |        |        |
| 16  |        |      |        |        |
| 17  |        |      |        |        |
| 18  | 0.0187 | 7.17 | 0.47   | 0.19   |
| 19  |        |      |        |        |
| 20  |        |      |        |        |
| 21  |        |      |        |        |
| 22  |        |      |        |        |
| 23  |        |      |        |        |
| 24  |        |      |        |        |
| 25  | 0.0533 | 6.20 | 2.22   | < 0.44 |
| 26  |        |      |        |        |
| 27  |        |      |        |        |
| 28  |        |      |        |        |
| 29  |        |      |        |        |
| AVG | 0.0274 | 6.78 | 1.04   | < 0.23 |

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*W. Biddings*

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | O & G |
|------|------|------|-------|-------|
| AVG  | ---  | 6-9  | 50.0  | 25.0  |
| MAX  | ---  | 6-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK  | 1/WK  |

|     |        |      |      |        |
|-----|--------|------|------|--------|
| 1   |        |      |      |        |
| 2   |        |      |      |        |
| 3   |        |      |      |        |
| 4   |        |      |      |        |
| 5   | 0.1870 | 6.51 | 6.24 | 19.04  |
| 6   |        |      |      |        |
| 7   |        |      |      |        |
| 8   |        |      |      |        |
| 9   |        |      |      |        |
| 10  |        |      |      |        |
| 11  | 0.2940 | 8.08 | 9.81 | < 2.45 |
| 12  |        |      |      |        |
| 13  |        |      |      |        |
| 14  |        |      |      |        |
| 15  |        |      |      |        |
| 16  |        |      |      |        |
| 17  | 0.0014 | 8.62 | 0.02 | < 0.01 |
| 18  |        |      |      |        |
| 19  |        |      |      |        |
| 20  |        |      |      |        |
| 21  |        |      |      |        |
| 22  |        |      |      |        |
| 23  |        |      |      |        |
| 24  |        |      |      |        |
| 25  |        |      |      |        |
| 26  |        |      |      |        |
| 27  |        |      |      |        |
| 28  |        |      |      |        |
| 29  |        |      |      |        |
| 30  | 0.     |      |      |        |
| 31  |        |      |      |        |
| AVG | 0.1206 | 7.74 | 4.02 | 5.07   |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Signature]*

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

APRIL, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | U & G |
|------|------|------|-------|-------|
| AVG  | ---  | 5-9  | 50.0  | 25.0  |
| MAX  | ---  | 5-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/HR | 1/HR | 1/HR  | 1/HR  |

|     |        |      |        |        |
|-----|--------|------|--------|--------|
| 1   |        |      |        |        |
| 2   |        |      |        |        |
| 3   |        |      |        |        |
| 4   |        |      |        |        |
| 5   |        |      |        |        |
| 6   | 0.     |      |        |        |
| 7   |        |      |        |        |
| 8   |        |      |        |        |
| 9   |        |      |        |        |
| 10  |        |      |        |        |
| 11  |        |      |        |        |
| 12  |        |      |        |        |
| 13  | 9.0200 | 6.15 | 1580.7 | 143.02 |
| 14  |        |      |        |        |
| 15  |        |      |        |        |
| 16  |        |      |        |        |
| 17  | 0.0255 | 7.11 | < 0.2  | 0.34   |
| 18  |        |      |        |        |
| 19  |        |      |        |        |
| 20  |        |      |        |        |
| 21  | 0.0255 | 8.83 | 0.4    | 0.26   |
| 22  |        |      |        |        |
| 23  |        |      |        |        |
| 24  |        |      |        |        |
| 25  |        |      |        |        |
| 26  |        |      |        |        |
| 27  |        |      |        |        |
| 28  | 0.0780 | 7.53 | 4.5    | < 0.65 |
| 29  |        |      |        |        |
| 30  |        |      |        |        |
| AVG | 1.8298 | 7.41 | 317.2  | 28.79  |

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ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619


MAY, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | O & G |
|------|------|------|-------|-------|
| AVG  | ---  | 6-9  | 50.0  | 25.0  |
| MAX  | ---  | 6-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK  | 1/WK  |

|     |        |      |        |         |
|-----|--------|------|--------|---------|
| 1   |        |      |        |         |
| 2   |        |      |        |         |
| 3   |        |      |        |         |
| 4   |        |      |        |         |
| 5   | 0.1080 | 7.57 | 6.31   | < 0.90  |
| 6   |        |      |        |         |
| 7   |        |      |        |         |
| 8   |        |      |        |         |
| 9   |        |      |        |         |
| 10  |        |      |        |         |
| 11  |        |      |        |         |
| 12  | 1.6300 | 8.90 | 108.82 | 13.60   |
| 13  |        |      |        |         |
| 14  |        |      |        |         |
| 15  |        |      |        |         |
| 16  |        |      |        |         |
| 17  |        |      |        |         |
| 18  |        |      |        |         |
| 19  | 1.6300 | 7.31 | 40.81  | < 13.60 |
| 20  |        |      |        |         |
| 21  |        |      |        |         |
| 22  |        |      |        |         |
| 23  |        |      |        |         |
| 24  |        |      |        |         |
| 25  |        |      |        |         |
| 26  | 1.6300 | 8.58 | 40.81  | 17.68   |
| 27  |        |      |        |         |
| 28  |        |      |        |         |
| 29  |        |      |        |         |
| 30  |        |      |        |         |
| 31  |        |      |        |         |
| AVG | 1.2495 | 8.09 | 49.19  | < 10.43 |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

JUNE, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW   | pH    | TSS   | O & G   |
|------|--------|-------|-------|---------|
| AVG  | ---    | 6-9   | 50.0  | 25.0    |
| MAX  | ---    | 6-9   | 167.0 | 33.4    |
| UNIT | MGD    | S.U.  | PPD   | PPD     |
| FREQ | 1/WK   | 1/WK  | 1/WK  | 1/WK    |
| 1    |        |       |       |         |
| 2    | 0.4310 | 10.88 | 18.0  | < 3.60  |
| 3    |        |       |       |         |
| 4    |        |       |       |         |
| 5    |        |       |       |         |
| 6    |        |       |       |         |
| 7    |        |       |       |         |
| 8    | 0.     |       |       |         |
| 9    |        |       |       |         |
| 10   |        |       |       |         |
| 11   |        |       |       |         |
| 12   |        |       |       |         |
| 13   |        |       |       |         |
| 14   |        |       |       |         |
| 15   | 0.     |       |       |         |
| 16   |        |       |       |         |
| 17   |        |       |       |         |
| 18   |        |       |       |         |
| 19   |        |       |       |         |
| 20   |        |       |       |         |
| 21   |        |       |       |         |
| 22   | 0.     |       |       |         |
| 23   |        |       |       |         |
| 24   |        |       |       |         |
| 25   | 2.8000 | 8.06  | 116.8 | < 23.37 |
| 26   |        |       |       |         |
| 27   |        |       |       |         |
| 28   |        |       |       |         |
| 29   |        |       |       |         |
| 30   | 0.1870 | 8.99  | 6.2   | 2.18    |
| AVG  | 0.5697 | 9.31  | 23.5  | < 4.75  |

SIGNATURE OF RESPONSIBLE OFFICIAL

*E. F. Fiddling Jr.*



## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

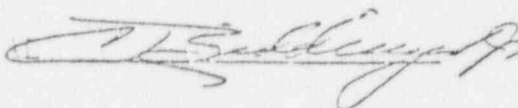
AL-0024619

JULY, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW   | pH   | TSS   | O & G  |
|------|--------|------|-------|--------|
| AVG  | ---    | 6-9  | 50.0  | 25.0   |
| MAX  | ---    | 6-9  | 167.0 | 33.4   |
| UNIT | MGD    | S.U. | PPD   | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK  | 1/WK   |
| 1    |        |      |       |        |
| 2    |        |      |       |        |
| 3    |        |      |       |        |
| 4    |        |      |       |        |
| 5    |        |      |       |        |
| 6    |        |      |       |        |
| 7    | 0.     |      |       |        |
| 8    |        |      |       |        |
| 9    |        |      |       |        |
| 10   |        |      |       |        |
| 11   |        |      |       |        |
| 12   |        |      |       |        |
| 13   | 0.     |      |       |        |
| 14   |        |      |       |        |
| 15   |        |      |       |        |
| 16   |        |      |       |        |
| 17   |        |      |       |        |
| 18   |        |      |       |        |
| 19   |        |      |       |        |
| 20   | 0.1370 | 8.51 | 17.1  | < 1.14 |
| 21   |        |      |       |        |
| 22   |        |      |       |        |
| 23   |        |      |       |        |
| 24   |        |      |       |        |
| 25   |        |      |       |        |
| 26   |        |      |       |        |
| 27   |        |      |       |        |
| 28   | 0.1370 | 8.60 | 15.6  | 1.98   |
| 29   |        |      |       |        |
| 30   |        |      |       |        |
| 31   |        |      |       |        |
| AVG  | 0.0310 | 7.56 | 8.2   | < 0.68 |

SIGNATURE OF RESPONSIBLE OFFICIAL





## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

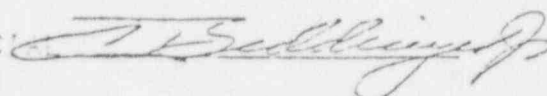
AUGUST, 1980

## DISCHARGE 003 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | D & G |
|------|------|------|-------|-------|
| AVG  | ---  | 6-9  | 50.0  | 25.0  |
| MAX  | ---  | 6-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK  | 1/WK  |

|     |        |      |      |        |
|-----|--------|------|------|--------|
| 1   |        |      |      |        |
| 2   |        |      |      |        |
| 3   |        |      |      |        |
| 4   |        |      |      |        |
| 5   |        |      |      |        |
| 6   |        |      |      |        |
| 7   |        |      | 4.7  | < 1.18 |
| 8   |        |      |      |        |
| 9   | 0.0533 | 8.45 | 4.0  | < 0.44 |
| 10  |        |      |      |        |
| 11  | 0.0233 | 8.14 | 1.4  | < 0.24 |
| 12  |        |      |      |        |
| 13  |        |      |      |        |
| 14  |        |      |      |        |
| 15  |        |      |      |        |
| 16  |        |      |      |        |
| 17  |        |      |      |        |
| 18  |        |      |      |        |
| 19  | 0.4310 | 8.05 | 10.8 | < 3.60 |
| 20  |        |      |      |        |
| 21  |        |      |      |        |
| 22  |        |      |      |        |
| 23  |        |      |      |        |
| 24  |        |      |      |        |
| 25  |        |      | 7.1  | < 1.18 |
| 26  | 0.0540 | 7.60 |      |        |
| 27  |        |      |      |        |
| 28  |        |      |      |        |
| 29  |        |      |      |        |
| 30  |        |      |      |        |
| 31  |        |      |      |        |
| AVG | 0.1413 | 8.06 | 5.0  | < 1.18 |

SIGNATURE OF RESPONSIBLE OFFICER



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

SEPTEMBER, 1980

DISCHARGE PPS : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | DO & G |
|------|------|------|-------|--------|
| AVG  | ---  | 8-9  | 50.0  | 25.0   |
| MAX  | ---  | 8-9  | 137.0 | 33.4   |
| UNIT | MGD  | S.U. | PPD   | PPD    |
| PROD | 178K | 178K | 178K  | 178K   |

|     |        |       |      |        |
|-----|--------|-------|------|--------|
| 1   |        |       |      |        |
| 2   |        |       |      |        |
| 3   |        |       |      |        |
| 4   |        |       |      |        |
| 5   | 0.4310 | 7.37  | 39.6 | < 3.60 |
| 6   |        |       |      |        |
| 7   |        |       |      |        |
| 8   | 0.0730 | 10.00 | 5.2  | < 0.65 |
| 9   |        |       |      |        |
| 10  |        |       |      |        |
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| 20  |        |       |      |        |
| 21  | 0.     |       |      |        |
| 22  |        |       |      |        |
| 23  | 0.1370 | 6.94  | 4.5  | < 1.14 |
| 24  |        |       |      |        |
| 25  |        |       |      |        |
| 26  |        |       |      |        |
| 27  |        |       |      |        |
| 28  |        |       |      |        |
| 29  | 0.1370 | 7.43  | 3.1  | < 1.55 |
| 30  |        |       |      |        |
| 31  |        |       |      |        |
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| 167 |        |       |      |        |
| 168 |        |       |      |        |
| 169 |        |       |      |        |
| 170 |        |       |      |        |
| 171 |        |       |      |        |
| 172 |        |       |      |        |
| 173 |        |       |      |        |
| 174 |        |       |      |        |
| 175 |        |       |      |        |
| 176 |        |       |      |        |
| 177 |        |       |      |        |
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| 179 |        |       |      |        |
| 180 |        |       |      |        |
| 181 |        |       |      |        |
| 182 |        |       |      |        |
| 183 |        |       |      |        |
| 184 |        |       |      |        |
| 185 |        |       |      |        |
| 186 |        |       |      |        |
| 187 |        |       |      |        |
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| 189 |        |       |      |        |
| 190 |        |       |      |        |
| 191 |        |       |      |        |
| 192 |        |       |      |        |
| 193 |        |       |      |        |
| 194 |        |       |      |        |
| 195 |        |       |      |        |
| 196 |        |       |      |        |
| 197 |        |       |      |        |
| 198 |        |       |      |        |
| 199 |        |       |      |        |
| 200 |        |       |      |        |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

OCTOBER, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW | pH   | TSS   | O & G |
|------|------|------|-------|-------|
| AVG  | ---  | 6-9  | 50.0  | 25.0  |
| MAX  | ---  | 6-9  | 167.0 | 33.4  |
| UNIT | MGD  | S.U. | PPD   | PPD   |
| FREQ | 1/WK | 1/WK | 1/WK  | 1/WK  |

|     |        |      |      |        |
|-----|--------|------|------|--------|
| 1   |        |      |      |        |
| 2   |        |      |      |        |
| 3   |        |      |      |        |
| 4   |        |      |      |        |
| 5   |        |      |      |        |
| 6   |        |      |      |        |
| 7   | 0.3260 | 6.94 | 19.0 | < 2.72 |
| 8   |        |      |      |        |
| 9   |        |      |      |        |
| 10  |        |      |      |        |
| 11  |        |      |      |        |
| 12  |        |      |      |        |
| 13  | 0.1080 | 7.25 | 1.8  | < 0.92 |
| 14  |        |      |      |        |
| 15  |        |      |      |        |
| 16  |        |      |      |        |
| 17  |        |      |      |        |
| 18  |        |      |      |        |
| 19  |        |      |      |        |
| 20  | 0.2330 | 7.43 | 4.0  | < 1.99 |
| 21  |        |      |      |        |
| 22  |        |      |      |        |
| 23  |        |      |      |        |
| 24  |        |      |      |        |
| 25  |        |      |      |        |
| 26  |        |      |      |        |
| 27  | 0.0336 | 8.37 | 0.3  | < 0.28 |
| 28  |        |      |      |        |
| 29  |        |      |      |        |
| 30  |        |      |      |        |
| 31  |        |      |      |        |
| AVG | 0.1764 | 7.51 | 6.3  | < 1.47 |

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. S. Hubbard* For C. Biddinger, Jr.

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

NOVEMBER, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE   | FLOW | pH   | TSS   | O & C |
|--------|------|------|-------|-------|
| AVG    | ---  | 6-9  | 50.0  | 25.0  |
| MAX    | ---  | 6-9  | 167.0 | 33.4  |
| UNIT   | MGD  | 6.0  | PPD   | PPD   |
| PERIOD | 17WK | 17WK | 17WK  | 17WK  |

|     |        |      |     |        |
|-----|--------|------|-----|--------|
| 1   |        |      |     |        |
| 2   |        |      |     |        |
| 3   | 0.1440 | 3.13 | 3.5 | < 1.20 |
| 4   |        |      |     |        |
| 5   |        |      |     |        |
| 6   |        |      |     |        |
| 7   |        |      |     |        |
| 8   |        |      |     |        |
| 9   |        |      |     |        |
| 10  | 0.1440 | 6.42 | 2.4 | < 1.20 |
| 11  |        |      |     |        |
| 12  |        |      |     |        |
| 13  |        |      |     |        |
| 14  |        |      |     |        |
| 15  |        |      |     |        |
| 16  |        |      |     |        |
| 17  | 0.0780 | 6.64 | 0.7 | < 0.65 |
| 18  |        |      |     |        |
| 19  |        |      |     |        |
| 20  |        |      |     |        |
| 21  |        |      |     |        |
| 22  |        |      |     |        |
| 23  |        |      |     |        |
| 24  |        |      |     |        |
| 25  |        |      |     |        |
| 26  | 0.0923 | 7.17 | 1.5 | < 0.77 |
| 27  |        |      |     |        |
| 28  |        |      |     |        |
| 29  |        |      |     |        |
| 30  | 0.1030 | 6.99 | 4.5 | < 0.90 |
| 31  |        |      |     |        |
| AVG | 0.1123 | 7.07 | 2.5 | < 0.95 |

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# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

DECEMBER, 1980

DISCHARGE 005 : SETTLING BASIN

| DATE | FLOW   | pH   | TSS   | O & G  |
|------|--------|------|-------|--------|
| AVG  | ---    | 6-9  | 50.0  | 25.0   |
| MAX  | ---    | 6-9  | 167.0 | 33.4   |
| UNIT | MGD    | S.U. | PPD   | PPD    |
| FREQ | 1/WK   | 1/WK | 1/WK  | 1/WK   |
| 1    |        |      |       |        |
| 2    |        |      |       |        |
| 3    |        |      |       |        |
| 4    |        |      |       |        |
| 5    |        |      |       |        |
| 6    |        |      |       |        |
| 7    |        |      |       |        |
| 8    |        |      |       |        |
| 9    |        |      |       |        |
| 10   |        |      |       |        |
| 11   |        |      |       |        |
| 12   | 0.0533 | 7.88 | 2.7   | < 0.44 |
| 13   |        |      |       |        |
| 14   |        |      |       |        |
| 15   |        |      |       |        |
| 16   |        |      |       |        |
| 17   |        |      |       |        |
| 18   |        |      |       |        |
| 19   |        |      |       |        |
| 20   | 0.     |      |       |        |
| 21   |        |      |       |        |
| 22   |        |      |       |        |
| 23   |        |      |       |        |
| 24   | 0.0336 | 8.08 | 0.6   | < 0.28 |
| 25   |        |      |       |        |
| 26   |        |      |       |        |
| 27   |        |      |       |        |
| 28   |        |      |       |        |
| 29   | 0.0255 | 7.47 | 0.9   | < 0.21 |
| 30   |        |      |       |        |
| 31   |        |      |       |        |
| AVG  | 0.0281 | 7.81 | 1.0   | < 0.23 |

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*J. E. Hubbard* for C. Biddinger Jr.

ATTACHMENT V

Sewage Treatment Plant Effluent  
(DSN 007)

  
ALABAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2641  
BIRMINGHAM, ALABAMA 35291 — (205) 323-5341

March 4, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

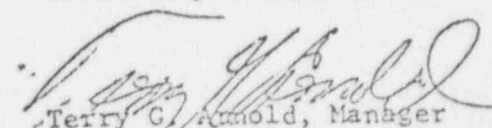
Dear Mr. Warr:

Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a non-compliance report for the sewage treatment plant effluent (Discharge Point 007). The pH of a sample analyzed on February 24, 1980, was 5.01. The pH of a second sample was 5.67.

The sewage treatment plant's chlorinator has a manually set flow rate to provide adequate chlorine injection for the expected flow from the sewage treatment plant. During the non-compliance period the flow from the sewage treatment plant was abnormally low. This resulted in excessive chlorine and consequently a lowered pH. To prevent the recurrence of this violation, efforts will be made to decrease the chlorine injection rate when low flows from the plant are observed.

Yours very truly,

  
Terry G. Arnold, Manager  
Environmental and Research Services

FVB/y

bcc: Mr. J. E. Dorsett  
Mr. H. O. Thrash  
Mr. W. M. Jackson  
Mr. F. V. Brown  
Mr. W. R. Bayne

File: T(7) 1202 706

HELPING DEVELOP ALABAMA

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024519

JANUARY, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW   | BOD  | pH   | TSS  | CL    | FEC COLI |
|------|--------|------|------|------|-------|----------|
| UNIT | MGD    | MG/L | S.U. | MG/L | MG/L  | COL/ML   |
| FREQ | 1/MO   | 1/MO | 1/MO | 1/MO | 1/WK  | 1/CTR    |
| 1    |        |      |      |      | 38.40 |          |
| 2    |        |      |      |      |       |          |
| 3    |        |      |      |      |       |          |
| 4    |        |      |      |      |       |          |
| 5    |        |      |      |      |       |          |
| 6    |        |      |      |      |       |          |
| 7    |        |      |      |      |       |          |
| 8    |        |      |      |      | 16.40 |          |
| 9    |        |      |      |      |       |          |
| 10   |        |      |      |      |       |          |
| 11   |        |      |      |      |       |          |
| 12   |        |      |      |      |       |          |
| 13   |        |      |      |      |       |          |
| 14   |        |      |      |      | 17.20 |          |
| 15   |        |      |      |      |       |          |
| 16   |        | 13.0 | 6.70 | 13.  | 2.30  | 0.       |
| 17   |        |      |      |      |       |          |
| 18   |        |      |      |      |       |          |
| 19   |        |      |      |      |       |          |
| 20   | 0.0120 |      | 6.35 |      |       |          |
| 21   |        |      |      |      |       |          |
| 22   |        |      |      |      |       |          |
| 23   |        |      |      |      |       |          |
| 24   |        |      |      |      |       |          |
| 25   |        |      |      |      | 12.00 |          |
| 26   |        |      |      |      |       |          |
| 27   |        |      |      |      |       |          |
| 28   |        |      |      |      |       |          |
| 29   |        |      |      |      |       |          |
| 30   |        |      |      |      |       |          |
| 31   |        |      |      |      |       |          |
| AVG  | 0.0120 | 13.0 | 6.53 | 13.  | 17.26 | 0.       |

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*W. B. Belding Jr.*



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

FEBRUARY, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW | BOD  | pH   | TSS  | CL   | FEC COLI |
|------|------|------|------|------|------|----------|
| AVG  | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX  | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT | MGD  | MG/L | S.U. | MG/L | MG/L | COL/AL   |
| FREQ | 1/MO | 1/MO | 1/MO | 1/MO | 1/WK | 1/CTR    |

|     |        |      |      |     |        |    |
|-----|--------|------|------|-----|--------|----|
| 1   |        |      |      |     |        |    |
| 2   |        |      |      |     |        |    |
| 3   |        |      |      |     |        |    |
| 4   |        |      |      |     |        |    |
| 5   |        |      |      |     |        |    |
| 6   |        |      |      |     |        |    |
| 7   |        |      |      |     |        |    |
| 8   |        |      |      |     |        |    |
| 9   |        |      |      |     |        |    |
| 10  |        |      |      |     | 11.90  |    |
| 11  |        |      |      |     |        |    |
| 12  |        |      |      |     |        |    |
| 13  |        | 23.0 | 7.30 | 12. | 147.00 | 0. |
| 14  |        |      |      |     | 26.20  |    |
| 15  |        |      |      |     |        |    |
| 16  |        |      |      |     |        |    |
| 17  |        |      |      |     |        |    |
| 18  |        |      |      |     | 18.60  |    |
| 19  |        |      |      |     |        |    |
| 20  |        |      |      |     |        |    |
| 21  |        |      |      |     |        |    |
| 22  |        |      |      |     |        |    |
| 23  |        |      |      |     |        |    |
| 24  | 0.0033 |      | 5.67 |     |        |    |
| 25  |        |      | 6.62 |     | 29.10  |    |
| 26  |        |      |      |     |        |    |
| 27  |        |      |      |     |        |    |
| 28  |        |      |      |     |        |    |
| 29  |        |      |      |     |        |    |
| AVG | 0.0033 | 23.0 | 6.53 | 12. | 46.56  | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL

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# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

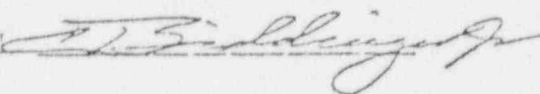
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW   | BOD  | pH   | TSS  | CL    | FEC COLI |
|------|--------|------|------|------|-------|----------|
| AVG  | ---    | 30   | 6-9  | 30   | ---   | 200/100  |
| MAX  | ---    | 45   | 6-9  | 45   | ---   | 400/100  |
| UNIT | MGD    | MG/L | S.U. | MG/L | MG/L  | COL/ML   |
| FREQ | 1/MO   | 1/MO | 1/MO | 1/MO | 1/WK  | 1/QTR    |
| 1    |        |      |      |      |       |          |
| 2    |        |      |      |      |       |          |
| 3    |        |      |      |      |       |          |
| 4    |        |      |      |      | 18.40 |          |
| 5    |        |      |      |      |       |          |
| 6    |        |      |      |      |       |          |
| 7    |        |      |      |      |       |          |
| 8    |        |      |      |      |       |          |
| 9    |        |      |      |      |       |          |
| 10   |        |      |      |      |       |          |
| 11   |        |      |      |      |       |          |
| 12   |        | 68.0 | 6.50 | 48.  | 4.50  | 0.       |
| 13   |        |      |      |      |       |          |
| 14   |        |      |      |      | 14.30 |          |
| 15   |        |      |      |      |       |          |
| 16   |        |      |      |      |       |          |
| 17   |        |      |      |      |       |          |
| 18   |        |      |      |      |       |          |
| 19   |        |      |      |      |       |          |
| 20   |        |      |      |      |       |          |
| 21   | 0.0100 |      | 7.06 |      | 11.30 |          |
| 22   |        |      |      |      |       |          |
| 23   |        |      |      |      |       |          |
| 24   |        |      |      |      | 5.20  |          |
| 25   |        |      |      |      |       |          |
| 26   |        |      |      |      |       |          |
| 27   |        |      |      |      |       |          |
| 28   |        |      |      |      |       |          |
| 29   |        |      |      |      |       |          |
| 30   |        |      |      |      |       |          |
| 31   |        |      |      |      | 7.60  |          |
| AVG  | 0.0100 | 68.0 | 6.78 | 48.  | 10.22 | 0.       |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

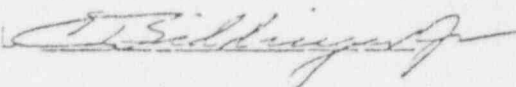
FARLEY NUCLEAR POWER PLANT  
AL-0024619

APRIL, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW   | BOD  | pH   | TSS  | CL    | FEC COLI |
|------|--------|------|------|------|-------|----------|
| AVG  | ---    | 30   | 6-9  | 30   | ---   | 200/100  |
| MAX  | ---    | 45   | 6-9  | 45   | ---   | 400/100  |
| UNIT | MGD    | MG/L | S.U. | MG/L | MG/L  | COL/ML   |
| FREQ | 1/MO   | 1/MO | 1/MO | 1/MO | 1/4K  | 1/QTR    |
| 1    |        |      |      |      |       |          |
| 2    |        |      |      |      |       |          |
| 3    |        |      |      |      |       |          |
| 4    |        |      |      |      |       |          |
| 5    |        |      |      |      |       |          |
| 6    |        |      |      |      |       |          |
| 7    |        |      |      |      |       |          |
| 8    |        |      |      |      |       |          |
| 9    |        |      |      |      |       |          |
| 10   |        |      |      |      |       |          |
| 11   |        |      |      |      |       |          |
| 12   |        |      |      |      |       |          |
| 13   |        |      |      |      |       |          |
| 14   |        |      |      |      |       |          |
| 15   |        |      |      |      |       |          |
| 16   |        |      |      |      |       |          |
| 17   |        |      |      |      | 17.40 |          |
| 18   |        |      |      |      |       |          |
| 19   |        |      |      |      |       |          |
| 20   |        |      | 6.88 |      |       |          |
| 21   |        |      |      |      |       |          |
| 22   |        |      |      |      | 29.60 |          |
| 23   |        |      |      |      |       |          |
| 24   | 0.0030 | 40.0 | 7.40 | 18.  | 3.00  | 0.       |
| 25   |        |      |      |      |       |          |
| 26   |        |      |      |      |       |          |
| 27   |        |      |      |      |       |          |
| 28   |        |      |      |      |       |          |
| 29   |        |      |      |      |       |          |
| 30   |        |      |      |      | 29.50 |          |
| AVG  | 0.0030 | 40.0 | 7.14 | 18.  | 19.38 | 0.       |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

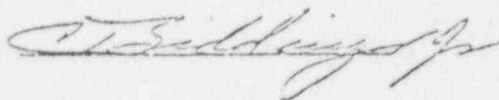
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MAY, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW   | BOD  | pH   | TSS  | CL     | FEC COLI |
|------|--------|------|------|------|--------|----------|
| AVG  | ---    | 30   | 6-9  | 30   | ---    | 200/100  |
| MAX  | ---    | 45   | 6-9  | 45   | ---    | 400/100  |
| UNIT | MGD    | MG/L | S.U. | MG/L | MG/L   | COL/AL   |
| FREQ | 1/MO   | 1/MO | 1/MO | 1/MO | 1/DK   | 1/QTR    |
| 1    |        |      |      |      |        |          |
| 2    |        |      |      |      |        |          |
| 3    |        |      |      |      |        |          |
| 4    |        |      |      |      |        |          |
| 5    |        |      |      |      |        |          |
| 6    |        |      |      |      |        |          |
| 7    |        |      |      |      | 8.60   |          |
| 8    |        |      |      |      |        |          |
| 9    |        |      |      |      |        |          |
| 10   |        |      |      |      |        |          |
| 11   |        |      |      |      |        |          |
| 12   |        |      |      |      |        |          |
| 13   |        |      |      |      |        |          |
| 14   |        |      |      |      | 12.70  |          |
| 15   |        |      |      |      |        |          |
| 16   |        |      |      |      |        |          |
| 17   |        |      |      |      |        |          |
| 18   |        |      |      |      |        |          |
| 19   |        |      |      |      |        |          |
| 20   | 0.0300 |      | 6.95 |      |        |          |
| 21   |        |      |      |      | 3.00   |          |
| 22   |        | 39.0 | 7.50 | 45.  | < 0.10 | > 9999.  |
| 23   |        |      |      |      |        |          |
| 24   |        |      |      |      |        |          |
| 25   |        |      |      |      |        |          |
| 26   |        |      |      |      |        |          |
| 27   | 0.0250 |      | 6.54 |      |        |          |
| 28   |        |      |      |      | 5.20   |          |
| 29   |        |      |      |      |        |          |
| 30   |        |      |      |      |        |          |
| 31   |        |      |      |      |        |          |
| AVG  | 0.0275 | 39.0 | 7.00 | 45.  | 5.91   | > 9999.  |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
HARLEY NUCLEAR POWER PLANT  
AL-0024619

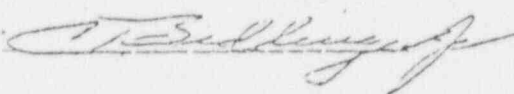
JUNE, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE  | FLOW | BOD  | pH   | TSS  | CL   | FEC COLI |
|-------|------|------|------|------|------|----------|
| MM/DD | MGD  | MG/L | S.U. | MG/L | MG/L | COL/ML   |
| 5/7   | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| 5/8   | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| 5/9   | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/10  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/11  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/12  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/13  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/14  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/15  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/16  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/17  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/18  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/19  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/20  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/21  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/22  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/23  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/24  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/25  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/26  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/27  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/28  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/29  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/30  | ---  | ---  | ---  | ---  | ---  | ---      |
| 5/31  | ---  | ---  | ---  | ---  | ---  | ---      |

|      |        |      |      |     |       |    |
|------|--------|------|------|-----|-------|----|
| 1    |        |      |      |     |       |    |
| 2    |        |      |      |     | 5.10  |    |
| 3    |        |      |      |     |       |    |
| 4    |        |      |      |     |       |    |
| 5    |        |      |      |     |       |    |
| 6    |        |      |      |     |       |    |
| 7    |        |      |      |     |       |    |
| 8    |        |      |      |     |       |    |
| 9    |        |      |      |     |       |    |
| 10   |        |      |      |     |       |    |
| 11   |        | 43.0 | 7.30 | 23. | 0.40  | 0. |
| 12   |        |      |      |     |       |    |
| 13   |        |      |      |     | 1.50  |    |
| 14   |        |      |      |     |       |    |
| 15   |        |      |      |     |       |    |
| 16   |        |      |      |     | 1.40  |    |
| 17   |        |      |      |     |       |    |
| 18   |        |      |      |     |       |    |
| 19   |        |      |      |     |       |    |
| 20   | 0.0200 |      | 7.10 |     |       |    |
| 21   |        |      |      |     |       |    |
| 22   |        |      |      |     |       |    |
| 23   |        |      |      |     |       |    |
| 24   |        |      |      |     |       |    |
| 25   |        |      |      |     | 27.00 |    |
| 26   |        |      |      |     |       |    |
| 27   |        |      |      |     |       |    |
| 28   |        |      |      |     |       |    |
| 29   |        |      |      |     |       |    |
| 30   |        |      |      |     |       |    |
| 31   |        |      |      |     |       |    |
| 5/31 | 0.0200 | 43.0 | 7.30 | 23. | 7.00  | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL:



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

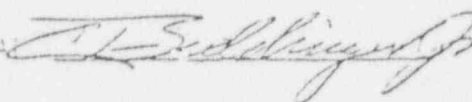
JULY, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW | 300  | ph   | TSS  | CL   | FEC COLI |
|------|------|------|------|------|------|----------|
| AVG  | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX  | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT | MGD  | MG/L | S.U. | MG/L | MG/L | COL/M/L  |
| FREQ | 1/MO | 1/MO | 1/MO | 1/MO | 1/MO | 1/QTR    |

|     |        |      |      |    |       |    |
|-----|--------|------|------|----|-------|----|
| 1   |        |      |      |    |       |    |
| 2   |        |      |      |    |       |    |
| 3   |        |      |      |    |       |    |
| 4   |        |      |      |    |       |    |
| 5   |        |      |      |    | 0.90  |    |
| 6   |        |      |      |    |       |    |
| 7   |        |      |      |    |       |    |
| 8   |        |      |      |    |       |    |
| 9   |        |      |      |    | 0.40  |    |
| 10  |        |      |      |    |       |    |
| 11  |        |      |      |    |       |    |
| 12  |        |      |      |    |       |    |
| 13  |        |      |      |    |       |    |
| 14  |        |      |      |    |       |    |
| 15  |        |      |      |    |       |    |
| 16  |        |      |      |    |       |    |
| 17  |        | 45.0 | 6.10 | 9. | 4.50  | 0. |
| 18  |        |      |      |    |       |    |
| 19  |        |      |      |    |       |    |
| 20  |        |      |      |    |       |    |
| 21  | 0.0080 |      | 7.10 |    |       |    |
| 22  |        |      |      |    |       |    |
| 23  |        |      |      |    | 37.10 |    |
| 24  |        |      |      |    |       |    |
| 25  |        |      |      |    |       |    |
| 26  |        |      |      |    |       |    |
| 27  |        |      |      |    |       |    |
| 28  |        |      |      |    |       |    |
| 29  |        |      |      |    |       |    |
| 30  |        |      |      |    |       |    |
| 31  |        |      |      |    |       |    |
| AVG | 0.0030 | 45.0 | 6.60 | 9. | 10.73 | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

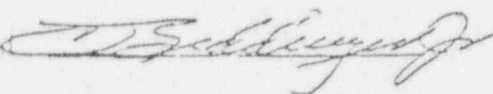
AUGUST, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW | BOD  | pH   | TSS  | CL   | FEC COLI |
|------|------|------|------|------|------|----------|
| AVG  | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX  | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT | MGD  | MG/L | S.U. | MG/L | MG/L | COL/ML   |
| FREQ | 1/MO | 1/MO | 1/MO | 1/MO | 1/WK | 1/QTR    |

|     |        |      |      |     |       |    |
|-----|--------|------|------|-----|-------|----|
| 1   |        |      |      |     |       |    |
| 2   |        |      |      |     | 1.10  |    |
| 3   |        |      |      |     |       |    |
| 4   |        |      |      |     |       |    |
| 5   |        |      |      |     | 11.40 |    |
| 6   |        |      |      |     |       |    |
| 7   |        | 44.0 | 6.90 | 21. | 2.70  | 0. |
| 8   |        |      |      |     |       |    |
| 9   |        |      |      |     |       |    |
| 10  |        |      |      |     |       |    |
| 11  |        |      |      |     |       |    |
| 12  |        |      |      |     |       |    |
| 13  |        |      |      |     |       |    |
| 14  |        |      |      |     |       |    |
| 15  |        |      |      |     |       |    |
| 16  |        |      |      |     |       |    |
| 17  |        |      |      |     | 1.60  |    |
| 18  |        |      |      |     |       |    |
| 19  |        |      |      |     |       |    |
| 20  |        |      |      |     |       |    |
| 21  |        |      |      |     |       |    |
| 22  | 0.0300 |      | 7.34 |     | 3.50  |    |
| 23  |        |      |      |     |       |    |
| 24  |        |      |      |     |       |    |
| 25  |        |      |      |     |       |    |
| 26  |        |      |      |     | 11.30 |    |
| 27  |        |      |      |     |       |    |
| 28  |        |      |      |     |       |    |
| 29  |        |      |      |     |       |    |
| 30  |        |      |      |     |       |    |
| 31  |        |      |      |     |       |    |
| AVG | 0.0300 | 44.0 | 7.12 | 21. | 5.27  | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

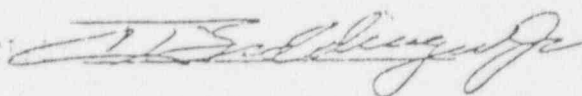
SEPTEMBER, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE   | FLOW | BOD  | pH   | TSS  | CL   | FEC COLI |
|--------|------|------|------|------|------|----------|
| AVG    | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX    | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT   | MGD  | MG/L | S.U. | MG/L | MG/L | COL/ML   |
| PERIOD | 1/MO | 1/MO | 1/MO | 1/MO | 1/4K | 1/CTR    |

|     |        |      |      |     |          |         |
|-----|--------|------|------|-----|----------|---------|
| 1   |        |      |      |     |          |         |
| 2   |        |      |      |     |          |         |
| 3   |        |      |      |     |          |         |
| 4   |        |      |      |     |          |         |
| 5   |        |      |      |     |          |         |
| 6   |        |      |      |     |          |         |
| 7   |        |      |      |     | < 0.10 * |         |
| 8   |        |      |      |     |          |         |
| 9   |        | 19.0 | 6.90 | 33. | 0.15     | > 9999. |
| 10  |        |      |      |     |          |         |
| 11  |        |      |      |     |          |         |
| 12  |        |      |      |     |          |         |
| 13  |        |      |      |     |          |         |
| 14  |        |      |      |     | 5.50     |         |
| 15  |        |      |      |     |          |         |
| 16  |        |      |      |     | 5.20     |         |
| 17  |        |      |      |     |          |         |
| 18  |        |      |      |     |          |         |
| 19  |        |      |      |     |          |         |
| 20  | 0.0030 |      | 6.73 |     |          |         |
| 21  |        |      |      |     |          |         |
| 22  |        |      |      |     | 5.00     |         |
| 23  |        |      |      |     |          |         |
| 24  |        |      |      |     |          |         |
| 25  |        |      |      |     |          |         |
| 26  |        |      |      |     |          |         |
| 27  |        |      |      |     |          |         |
| 28  |        |      |      |     |          |         |
| 29  |        |      |      |     | 17.00    |         |
| 30  |        |      |      |     |          |         |
| AVG | 0.0030 | 19.0 | 6.34 | 33. | 5.50     | > 9999. |

SIGNATURE OF RESPONSIBLE OFFICIAL



\* Chlorinator out of service



## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

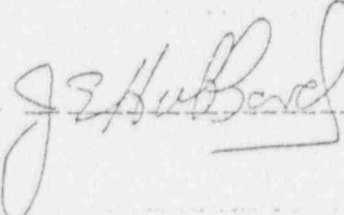
FARLEY NUCLEAR POWER PLANT  
AL-0024619

OCTOBER, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW   | BOD  | pH   | TSS  | CL   | FEC COLI |
|------|--------|------|------|------|------|----------|
| AVG  | ---    | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX  | ---    | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT | MGD    | MG/L | S.U. | MG/L | MG/L | COL/ML   |
| FREQ | 1/MO   | 1/MO | 1/MO | 1/MO | 1/WK | 1/QTR    |
| 1    |        |      |      |      |      |          |
| 2    |        |      |      |      |      |          |
| 3    |        |      |      |      |      |          |
| 4    |        |      |      |      |      |          |
| 5    |        |      |      |      |      |          |
| 6    |        |      |      |      | 1.30 |          |
| 7    |        |      |      |      |      |          |
| 8    |        |      |      |      |      |          |
| 9    |        |      |      |      |      |          |
| 10   |        |      |      |      |      |          |
| 11   |        |      |      |      |      |          |
| 12   |        |      |      |      |      |          |
| 13   |        |      |      |      |      |          |
| 14   |        | 26.0 | 6.90 | 6.   | 2.60 | 0.       |
| 15   |        |      |      |      |      |          |
| 16   |        |      |      |      | 1.30 |          |
| 17   |        |      |      |      |      |          |
| 18   |        |      |      |      |      |          |
| 19   |        |      |      |      |      |          |
| 20   | 0.0400 |      | 7.38 |      |      |          |
| 21   |        |      |      |      |      |          |
| 22   |        |      |      |      |      |          |
| 23   |        |      |      |      |      |          |
| 24   |        |      |      |      |      |          |
| 25   |        |      |      |      | 1.40 |          |
| 26   |        |      |      |      |      |          |
| 27   |        |      |      |      | 2.00 |          |
| 28   |        |      |      |      |      |          |
| 29   |        |      |      |      |      |          |
| 30   |        |      |      |      |      |          |
| 31   |        |      |      |      |      |          |
| AVG  | 0.0400 | 26.0 | 7.14 | 6.   | 1.32 | 0.       |

SIGNATURE OF RESPONSIBLE OFFICIAL

  
For C. B. Biddings, Jr.

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

NOVEMBER, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW | BOD   | pH   | TSS   | CL    | FEC COLI |
|------|------|-------|------|-------|-------|----------|
| 4/8  | ---  | 30    | 6-9  | 30    | ---   | 200/100  |
| 5/8  | ---  | 45    | 6-9  | 45    | ---   | 400/100  |
| 6/8  | 100  | 100/L | 5.0. | 100/L | 100/L | 100/L    |
| 7/8  | 170  | 170   | 17.0 | 170   | 170   | 170      |

|    |        |      |      |     |       |    |
|----|--------|------|------|-----|-------|----|
| 1  |        |      |      |     |       |    |
| 2  |        |      |      |     |       |    |
| 3  |        |      |      |     |       |    |
| 4  |        |      |      |     |       |    |
| 5  |        |      |      |     |       |    |
| 6  |        |      |      |     |       |    |
| 7  |        |      |      |     |       |    |
| 8  |        |      |      |     | *     |    |
| 9  |        |      |      |     |       |    |
| 10 |        |      |      |     | 3.50  |    |
| 11 |        | 33.0 | 7.00 | 15. | 3.00  | 0. |
| 12 |        |      |      |     |       |    |
| 13 |        |      |      |     |       |    |
| 14 |        |      |      |     |       |    |
| 15 |        |      |      |     |       |    |
| 16 |        |      |      |     |       |    |
| 17 |        |      |      |     |       |    |
| 18 |        |      |      |     |       |    |
| 19 |        |      |      |     |       |    |
| 20 |        |      |      |     |       |    |
| 21 | 1.0300 |      | 7.02 |     | 11.00 |    |
| 22 |        |      |      |     |       |    |
| 23 |        |      |      |     |       |    |
| 24 |        |      |      |     |       |    |
| 25 |        |      |      |     |       |    |
| 26 |        |      |      |     | 4.20  |    |
| 27 |        |      |      |     |       |    |
| 28 |        |      |      |     |       |    |
| 29 |        |      |      |     |       |    |
| 30 | 1.3200 |      |      |     |       |    |
| 31 | 0.6250 | 30.0 | 7.01 | 15. | 3.60  | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*

\* oversite

# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

DECEMBER, 1980

DISCHARGE 007 : SEWAGE PLANT

| DATE | FLOW | BOD  | pH   | TSS  | CL   | FEC COLI |
|------|------|------|------|------|------|----------|
| AVG  | ---  | 30   | 6-9  | 30   | ---  | 200/100  |
| MAX  | ---  | 45   | 6-9  | 45   | ---  | 400/100  |
| UNIT | MGD  | MG/L | S.U. | MG/L | MG/L | COL/ML   |
| FREQ | 1/MO | 1/MO | 1/MO | 1/MO | 1/WK | 1/QTR    |

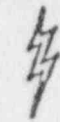
|     |        |      |      |     |      |    |
|-----|--------|------|------|-----|------|----|
| 1   |        |      |      |     |      |    |
| 2   |        |      |      |     |      |    |
| 3   |        |      |      |     |      |    |
| 4   |        |      |      |     |      |    |
| 5   |        |      |      |     |      |    |
| 6   |        |      |      |     |      |    |
| 7   |        |      |      |     |      |    |
| 8   |        |      |      |     |      |    |
| 9   |        |      |      |     |      |    |
| 10  |        | 31.0 | 7.10 | 24. | 2.30 | 0. |
| 11  |        |      |      |     | 5.70 |    |
| 12  |        |      |      |     |      |    |
| 13  |        |      |      |     |      |    |
| 14  |        |      |      |     |      |    |
| 15  |        |      |      |     |      |    |
| 16  |        |      |      |     |      |    |
| 17  |        |      |      |     |      |    |
| 18  |        |      |      |     | 5.20 |    |
| 19  |        |      |      |     |      |    |
| 20  | 0.0030 |      | 7.30 |     |      |    |
| 21  |        |      |      |     |      |    |
| 22  |        |      |      |     |      |    |
| 23  |        |      |      |     | 5.20 |    |
| 24  |        |      |      |     |      |    |
| 25  |        |      |      |     |      |    |
| 26  |        |      |      |     |      |    |
| 27  |        |      |      |     |      |    |
| 28  |        |      |      |     |      |    |
| 29  |        |      |      |     |      |    |
| 30  |        |      |      |     |      |    |
| 31  |        |      |      |     | 1.80 |    |
| AVG | 0.0080 | 31.0 | 7.20 | 24. | 4.04 | 0. |

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. E. Hubbard* for C. Biddinger Jr.

ATTACHMENT VI

Metal Cleaning Wastes  
(DSN 008)



ALABAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2641  
BIRMINGHAM, ALABAMA 35291 — (205) 221-5341

March 20, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

Re: Farley Nuclear Plant's  
NPDES Permit No. AL0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a non-compliance report for violations which occurred at the Farley Nuclear Plant. During the period of March 8, 1980, to March 11, 1980, approximately 300,000 gallons of water were released from the metal cleaning waste holding pond, discharge point 008, into the Chattahoochee River. The iron concentration of this water was found to be 1.55 mg/l. This non-compliance occurred because the heavy rain which occurred during this period caused the pond to overflow. To help prevent the recurrence of this violation, the height of the dam has been raised to give increased volume in the holding pond.

The steam generator blowdown, discharge point 003A, was found by analyses performed on February 27, 1980, to have an iron concentration of 3.01 mg/l and a copper concentration of 1.19 mg/l. This non-compliance was caused because Unit 1 has experienced several shutdowns recently, and air in-leakages which were reported early continue to be a problem. As part of the Company's effort to eliminate these violations, the Company is attempting to locate and repair these leaks.

If you have any questions, please call me.

Yours truly,

for John E. Dorsett  
General Manager,  
Power Generation Services



Alabama Power

*the southern electric system*

July 10, 1980

Farley Nuclear Power Plant  
NPDES Permit No. AL0024619

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

As required by your letter of June 11, 1980, we are providing the following responses to the noncompliance items.

Item 1: Metal Cleaning Waste

The metal cleaning waste pond was designed to hold metal cleaning waste plus the runoff from 15 acres of plant yard. However, the heavy rainfall encountered in the spring caused the storage capacity to be exceeded. Had the heavy rainfall not occurred, the storage capacity would not have been exceeded and no problems would have been encountered.

The discharge of metal cleaning waste into the pond has ceased. Any future metal cleaning waste will be directed to a chemical holding pond which does not receive yard drainage.

Since the metal cleaning at Farley has been completed, we propose to eliminate the present metal cleaning waste pond and allow the surface drainage to discharge through the pond by placing a drain pipe in the dam to allow the water to pass. This arrangement has been discussed with Mr. J. P. Martin. Your concurrence in this arrangement will be appreciated.

Item 2: Holding Time

We have investigated the matter of holding times for oil and grease, fecal coliform, and BOD. We found that the only one being exceeded is the oil and grease, which has a holding time of 24 hours. However, EPA proposed in the December 18, 1979, Federal Register, to change the holding time for oil and grease to 28 days. We feel that the 28 day holding time is more realistic. However since the official holding time is presently

Mr. James W. Warr, Chief

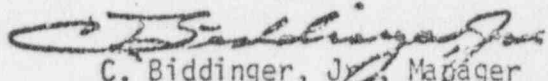
Page 2

July 10, 1980

24 hours, our method of shipping samples to the central laboratory has been changed to insure that the present holding time is not exceeded. This new method of shipment is the same as that used by other plants within Alabama Power.

If you have any questions, please contact me.

Yours very truly,



C. Biddinger, Jr., Manager  
Environmental and Research Services

FVB:y



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-CO24519

JANUARY, 1980

DISCHARGE 003 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T PHOS | O & G | CU   | FE   |
|------|-------|------|------|--------|-------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK | 1/WK |

1  
2  
3  
4  
5  
6  
7 0.  
8  
9  
10  
11  
12  
13  
14 0.  
15  
16  
17  
18  
19  
20  
21 0.  
22  
23  
24  
25  
26  
27  
28 0.  
29  
30  
31

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Signature]*



ALABAMA WATER IMPROVEMENT COMMISSION  
DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

FEBRUARY, 1980

DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T PHOS | O & G | CU   | FE   |
|------|-------|------|------|--------|-------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK | 1/WK |

1 0.

2

3

4 0.

5

6

7

8

9

10 0.

11

12

13

14

15

16

17 0.

18

19

20

21

22

23

24 0.

25

26

27

28

29

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*W. B. Biddling Jr.*

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

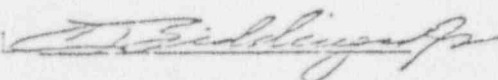
FARLEY NUCLEAR POWER PLANT  
AL-0024619

MARCH, 1980

DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW   | pH   | TSS  | T PHOS | O & G | CU     | FE   |
|------|--------|------|------|--------|-------|--------|------|
| AVG  | ---    | 6-9  | 30   | 1.0    | 15    | 1.0    | 1.0  |
| MAX  | ---    | 6-9  | 100  | 1.0    | 20    | 1.0    | 1.0  |
| UNIT | MCD    | S.U. | MG/L | MG/L   | MG/L  | MG/L   | MG/L |
| FREQ | 1/DAY  | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK   | 1/WK |
| 1    |        |      |      |        |       |        |      |
| 2    | 0.     |      |      |        |       |        |      |
| 3    |        |      |      |        |       |        |      |
| 4    |        |      |      |        |       |        |      |
| 5    |        |      |      |        |       |        |      |
| 6    |        |      |      |        |       |        |      |
| 7    |        |      |      |        |       |        |      |
| 8    |        |      |      |        |       |        |      |
| 9    | 0.1000 |      |      |        |       |        |      |
| 10   | 0.1000 |      |      |        |       |        |      |
| 11   | 0.1000 | 7.43 | 13.  | 0.910  | 1.6   | < 0.01 | 1.55 |
| 12   |        |      |      |        |       |        |      |
| 13   |        |      |      |        |       |        |      |
| 14   |        |      |      |        |       |        |      |
| 15   |        |      |      |        |       |        |      |
| 16   |        |      |      |        |       |        |      |
| 17   |        |      |      |        |       |        |      |
| 18   |        |      |      |        |       |        |      |
| 19   |        |      |      |        |       |        |      |
| 20   |        |      |      |        |       |        |      |
| 21   |        |      |      |        |       |        |      |
| 22   |        |      |      |        |       |        |      |
| 23   | 0.     |      |      |        |       |        |      |
| 24   |        |      |      |        |       |        |      |
| 25   |        |      |      |        |       |        |      |
| 26   |        |      |      |        |       |        |      |
| 27   |        |      |      |        |       |        |      |
| 28   |        |      |      |        |       |        |      |
| 29   |        |      |      |        |       |        |      |
| 30   | 0.     |      |      |        |       |        |      |
| 31   |        |      |      |        |       |        |      |
| AVG  | 0.0500 | 7.43 | 13.  | 0.910  | 1.6   | < 0.01 | 1.55 |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

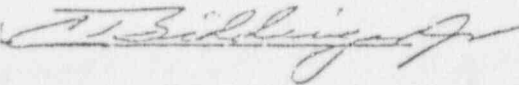
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

APRIL, 1980

DISCHARGE CODE : METAL CLEANING WASTES

| DATE | FLOW    | pH   | TSS  | T PHOS | O & G | CU     | FE   |
|------|---------|------|------|--------|-------|--------|------|
| AVG  | ---     | 5-9  | 30   | 1.0    | 15    | 1.0    | 1.0  |
| MAX  | ---     | 5-9  | 100  | 1.0    | 20    | 1.0    | 1.0  |
| UNIT | MGD     | S.U. | MG/L | MG/L   | MG/L  | MG/L   | MG/L |
| FREQ | 1/DAY   | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK   | 1/WK |
| 1    |         |      | 2.   | 0.494  | < 1.0 | < 0.01 | 0.98 |
| 2    |         |      |      |        |       |        |      |
| 3    |         |      |      |        |       |        |      |
| 4    | 14.8000 | 7.02 |      |        |       |        |      |
| 5    |         |      |      |        |       |        |      |
| 6    |         |      |      |        |       |        |      |
| 7    |         |      |      |        |       |        |      |
| 8    |         |      |      |        |       |        |      |
| 9    |         |      |      |        |       |        |      |
| 10   |         |      |      |        |       |        |      |
| 11   |         |      |      |        |       |        |      |
| 12   |         |      |      |        |       |        |      |
| 13   | 0.      |      |      |        |       |        |      |
| 14   |         |      |      |        |       |        |      |
| 15   |         |      |      |        |       |        |      |
| 16   |         |      |      |        |       |        |      |
| 17   |         |      |      |        |       |        |      |
| 18   |         |      |      |        |       |        |      |
| 19   |         |      |      |        |       |        |      |
| 20   | 0.      |      |      |        |       |        |      |
| 21   |         |      |      |        |       |        |      |
| 22   |         |      |      |        |       |        |      |
| 23   |         |      |      |        |       |        |      |
| 24   |         |      |      |        |       |        |      |
| 25   |         |      |      |        |       |        |      |
| 26   |         |      |      |        |       |        |      |
| 27   | 0.      |      |      |        |       |        |      |
| 28   |         |      |      |        |       |        |      |
| 29   |         |      |      |        |       |        |      |
| 30   |         |      |      |        |       |        |      |
| AVG  | 3.7000  | 7.02 | 2.   | 0.494  | < 1.0 | < 0.01 | 0.98 |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024619

MAY, 1980

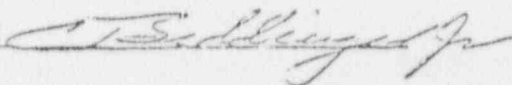
DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T PHOS | O & G | CJ   | FE   |
|------|-------|------|------|--------|-------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY | 1/OK | 1/OK | 1/OK   | 1/OK  | 1/OK | 1/OK |

|    |    |
|----|----|
| 1  |    |
| 2  |    |
| 3  |    |
| 4  | 0. |
| 5  |    |
| 6  |    |
| 7  |    |
| 8  |    |
| 9  |    |
| 10 |    |
| 11 | 0. |
| 12 |    |
| 13 |    |
| 14 |    |
| 15 |    |
| 16 |    |
| 17 |    |
| 18 | 0. |
| 19 |    |
| 20 |    |
| 21 |    |
| 22 |    |
| 23 |    |
| 24 |    |
| 25 | 0. |
| 26 |    |
| 27 |    |
| 28 |    |
| 29 |    |
| 30 |    |
| 31 |    |

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

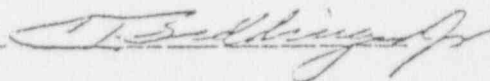
ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

JUNE, 1980

DISCHARGE CODE : METAL CLEANING WASTES

| DATE | FLOW    | pH   | TSS  | T PHOS | 0 & 3 | CU     | FE   |
|------|---------|------|------|--------|-------|--------|------|
| AVG  | ---     | 6-9  | 30   | 1.0    | 15    | 1.0    | 1.0  |
| MAX  | ---     | 6-9  | 100  | 1.0    | 20    | 1.0    | 1.0  |
| UNIT | MGD     | S.U. | MG/L | MG/L   | MG/L  | MG/L   | MG/L |
| FREQ | 1/DAY   | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK   | 1/WK |
| 1    | 0.      |      |      |        |       |        |      |
| 2    | 14.5000 | 7.04 | 7.   | 0.059  | < 1.0 | < 0.01 | 0.52 |
| 3    |         |      |      |        |       |        |      |
| 4    |         |      |      |        |       |        |      |
| 5    |         |      |      |        |       |        |      |
| 6    |         |      |      |        |       |        |      |
| 7    |         |      |      |        |       |        |      |
| 8    |         |      |      |        |       |        |      |
| 9    |         |      |      |        |       |        |      |
| 10   |         |      |      |        |       |        |      |
| 11   | 0.2235  | 8.04 | 4.   | 0.106  | < 1.0 | < 0.01 | 0.78 |
| 12   | 0.4992  |      |      |        |       |        |      |
| 13   | 0.4992  |      |      |        |       |        |      |
| 14   | 0.4992  |      |      |        |       |        |      |
| 15   | 0.4992  |      |      |        |       |        |      |
| 16   | 0.6732  |      |      |        |       |        |      |
| 17   | 0.0615  |      |      |        |       |        |      |
| 18   |         |      |      |        |       |        |      |
| 19   |         |      |      |        |       |        |      |
| 20   |         |      |      |        |       |        |      |
| 21   |         |      |      |        |       |        |      |
| 22   |         |      |      |        |       |        |      |
| 23   |         |      |      |        |       |        |      |
| 24   |         |      |      |        |       |        |      |
| 25   |         |      |      |        |       |        |      |
| 26   |         |      |      |        |       |        |      |
| 27   |         |      |      |        |       |        |      |
| 28   |         |      |      |        |       |        |      |
| 29   | 0.      |      |      |        |       |        |      |
| 30   |         |      |      |        |       |        |      |
| AVG  | 1.7450  | 7.54 | 7.   | 0.060  | < 1.0 | < 0.01 | 0.52 |

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
 FARLEY NUCLEAR POWER PLANT  
 AL-0024619

JULY, 1980

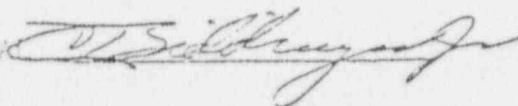
DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW  | pH    | TSS   | T PHOS | O & G | CU    | FE    |
|------|-------|-------|-------|--------|-------|-------|-------|
| AVG  | ---   | 5-9   | 30    | 1.0    | 15    | 1.0   | 1.0   |
| MAX  | ---   | 5-9   | 100   | 1.0    | 20    | 1.0   | 1.0   |
| UNIT | MGD   | S.U.  | MG/L  | MG/L   | MG/L  | MG/L  | MG/L  |
| FREQ | 1/DAY | 1/10K | 1/10K | 1/10K  | 1/10K | 1/10K | 1/10K |

1  
 2  
 3  
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 6 0.  
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 9  
 10  
 11  
 12  
 13 0.  
 14  
 15  
 16  
 17  
 18  
 19  
 20 0.  
 21  
 22  
 23  
 24  
 25  
 26  
 27 0.  
 28  
 29  
 30  
 31

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL



# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

AUGUST, 1980

DISCHARGE 003 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T PHOS | O & G | CU   | FE   |
|------|-------|------|------|--------|-------|------|------|
| AVG  | ---   | 0-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---   | 0-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY | 1/HK | 1/HK | 1/HK   | 1/HK  | 1/HK | 1/HK |

|    |    |
|----|----|
| 1  |    |
| 2  |    |
| 3  | 0. |
| 4  |    |
| 5  |    |
| 6  |    |
| 7  |    |
| 8  |    |
| 9  |    |
| 10 | 0. |
| 11 |    |
| 12 |    |
| 13 |    |
| 14 |    |
| 15 |    |
| 16 |    |
| 17 | 0. |
| 18 |    |
| 19 |    |
| 20 |    |
| 21 |    |
| 22 |    |
| 23 |    |
| 24 | 0. |
| 25 |    |
| 26 |    |
| 27 |    |
| 28 |    |
| 29 |    |
| 30 |    |
| 31 | 0. |

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*T. B. Biddling*

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY  
FARLEY NUCLEAR POWER PLANT  
AL-0024619

SEPTEMBER, 1980

DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T PHOS | O & G | CU   | FE   |
|------|-------|------|------|--------|-------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK | 1/WK |

1  
2  
3  
4  
5  
6  
7 0.  
8  
9  
10  
11  
12  
13  
14 0.  
15  
16  
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AVG 10 DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*[Handwritten Signature]*



## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

OCTOBER, 1980

DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | T. PHOS | O. & G | CU   | FE   |
|------|-------|------|------|---------|--------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0     | 15     | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0     | 20     | 1.0  | 1.0  |
| UNIT | MGD   | S.U. | MG/L | MG/L    | MG/L   | MG/L | MG/L |
| FREQ | 1/DAY | 1/WK | 1/WK | 1/WK    | 1/WK   | 1/WK | 1/WK |

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AVG (10) DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. S. Hubbard* for C. B. Bolding

# ALABAMA WATER IMPROVEMENT COMMISSION DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT  
AL-0024512

NOVEMBER, 1980

DISCHARGE CODE: METAL CLEANING WASTES

| DATE | FLOW  | pH   | TSS  | FMDS | O & G | CU   | FE   |
|------|-------|------|------|------|-------|------|------|
| AVG  | ---   | 6-9  | 30   | 1.0  | 15    | 1.0  | 1.0  |
| MAX  | ---   | 6-9  | 100  | 1.0  | 20    | 1.0  | 1.0  |
| UNIT | MG/L  | S.U. | MG/L | MG/L | MG/L  | MG/L | MG/L |
| PER  | 1/DAY | 1/CK | 1/CK | 1/CK | 1/CK  | 1/CK | 1/CK |

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AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

*J. E. B. [Signature]*

## ALABAMA WATER IMPROVEMENT COMMISSION

## DISCHARGE MONITORING REPORT

ALABAMA POWER COMPANY

FARLEY NUCLEAR POWER PLANT

AL-0024619

DECEMBER, 1980

DISCHARGE 008 : METAL CLEANING WASTES

| DATE | FLOW    | pH   | TSS  | T PHOS | O & G | CU   | FE   |
|------|---------|------|------|--------|-------|------|------|
| AVG  | ---     | 6-9  | 30   | 1.0    | 15    | 1.0  | 1.0  |
| MAX  | ---     | 6-9  | 100  | 1.0    | 20    | 1.0  | 1.0  |
| UNIT | MGD     | S.U. | MG/L | MG/L   | MG/L  | MG/L | MG/L |
| FREQ | 1/DAY * | 1/WK | 1/WK | 1/WK   | 1/WK  | 1/WK | 1/WK |

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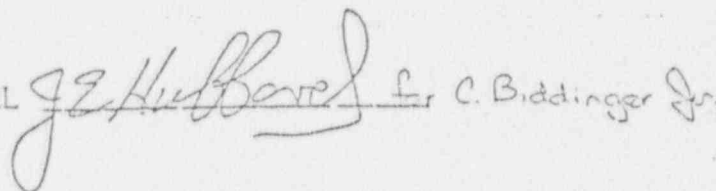
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0.

AVG NO DISCHARGE

SIGNATURE OF RESPONSIBLE OFFICIAL

J. C. Biddinger Jr.

\* Once a week

SECTION II

CHEMICAL DISCHARGES

## II-CHEMICAL DISCHARGES

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In accordance with Section 3.1.1(a)-1 of the Farley Environmental Technical Specifications, the following chemicals, which will be listed in FPC Form 67, were used in Unit No. 1 operations during 1980:

Sulfuric Acid (93%)  
Sodium Hydroxide (50%)  
Hydrazine (35%)  
Chlorine  
Ammonium Hydroxide  
Nalsperse 7348 Dispersant

SECTION III  
HERBICIDE APPLICATION ON  
TRANSMISSION LINE RIGHTS-OF-WAY

This Section is submitted to fulfill the requirement of  
Section 3.1.1(b)-5 of the Environmental Technical  
Specifications for Farley Nuclear Plant.

### III-Herbicide Application on Transmission Line Rights-of-Way

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#### I. Introduction

In accordance with Section 3.1.1(b)-5 of the Farley Environmental Technical Specifications (ETS), the purpose is to insure that the herbicide spraying program for rights-of-way maintenance does not result in any significant environmental impact due to either spray drifting out of the target area or the improper application of specific herbicides.

#### II. Discussion:

The use of herbicides on transmission line corridors associated with the Farley Nuclear Plant was in accordance with the specifications contained in Section 3.1.1(b)-5 of the ETS.

There was no spray program associated with Farley to Pickard-South 230 Kv transmission line or the Farley to Webb to Pickard-230 Kv transmission line for the 1980 calendar year.

During the period May 30-June 1, 1980, herbicide spraying operations were conducted on a portion of the Farley to Snowdoun 500 Kv transmission line. A total of 56.5 acres were sprayed using Tordon 101 and Garlon 3A which are EPA approved.

A record of the herbicide application is maintained in the Southeast Division Office and is available for inspection.

#### III. Conclusion

Utilization of herbicides was in accordance with Section 3.1.1(b)-5 of the Farley ETS.

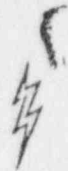
SECTION IV

MISCELLANEOUS REPORTS

As Required by Section  
5.6.1a., Part A

Note: These reports were sent to EPA and/or AWIC  
as required by NPDES Permit.



  
ALABAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2641  
BIRMINGHAM, ALABAMA 35291 — (205) 323-5341

January 10, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

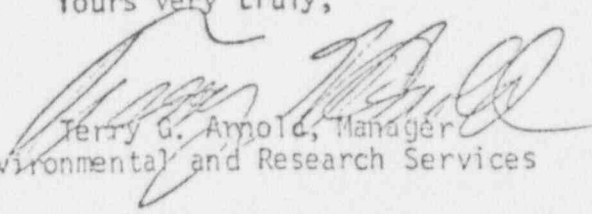
Re: Farley Nuclear Plant  
NPDES Permit No. AL 0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a report on a non-compliance that occurred as indicated by an analysis performed on January 3, 1980, for the steam generator blowdown (discharge point 003). Analysis of the effluent showed an iron concentration of 1.8 mg/l.

The plant is continuing to recover from the extended outage which ended November 5, 1979. During the first sixteen days of December, the unit underwent various tests and experienced equipment failures which resulted in a number of power escalations and reductions. These unusual operating conditions are apparently the cause of this violation.

The iron concentration has dropped from 5.4 mg/l for the November sample to 1.8 mg/l for the December sample. The iron concentrations should continue to drop as the unit continues to recover from the extended outage.


Yours very truly,

  
Terry G. Arnold, Manager  
Environmental and Research Services

FVB/y

bcc: Mr. R. P. McDonald  
Mr. H. O. Thrash  
Mr. W. M. Jackson  
Mr. F. V. Brown

File: T(7) 1306 ✓



ALABAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2641  
BIRMINGHAM, ALABAMA 35291 — (205) 323-5341

March 20, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

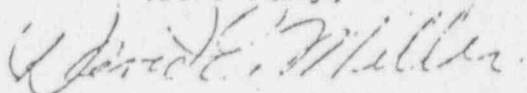
Re: Farley Nuclear Plant's  
NPDES Permit No. AL0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a non-compliance report for violations which occurred at the Farley Nuclear Plant. During the period of March 8, 1980, to March 11, 1980, approximately 300,000 gallons of water were released from the metal cleaning waste holding pond, discharge point 008, into the Chattahoochee River. The iron concentration of this water was found to be 1.55 mg/l. This non-compliance occurred because the heavy rain which occurred during this period caused the pond to overflow. To help prevent the recurrence of this violation, the height of the dam has been raised to give increased volume in the holding pond.

The steam generator blowdown, discharge point 003A, was found by analyses performed on February 27, 1980, to have an iron concentration of 3.01 mg/l and a copper concentration of 1.19 mg/l. This non-compliance was caused because Unit 1 has experienced several shutdowns recently, and air in-leakages which were reported early continue to be a problem. As part of the Company's effort to eliminate these violations, the Company is attempting to locate and repair these leaks.

If you have any questions, please call me.

Yours truly,



for John E. Dorsett  
General Manager,  
Power Generation Services

FVB/y

ALADAMA POWER COMPANY  
600 NORTH 18TH STREET — P. O. Box 2541  
BIRMINGHAM, ALABAMA 35291 — (205) 323-5341

May 16, 1980

Mr. James W. Warr, Chief  
Alabama Water Improvement Commission  
Perry Hill Office Park  
3815 Interstate Court  
Montgomery, Alabama 36109

Dear Mr. Warr:

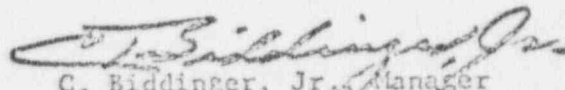
Re: Farley Nuclear Plant  
NPDES Permit No. AL0024619

In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance report for a violation which occurred at the referenced plant. The steam generator blowdown, discharge point 003B, was sampled on May 1, 1980. The sample was analyzed on May 8, 1980, and was found to contain iron at a concentration of 1.23 ppm.

Unit two is presently undergoing a preoperational test. During this test period, the cycling of the steam system temperature causes the iron oxide coating to break loose. The majority of this oxide coating has been on the interior surfaces of the steam generators since it was manufactured. This problem along with the difficulty of chemical control during cycling caused the noncompliance. The preoperational testing should be completed in May, 1980.

If you have any questions, please contact me.

Yours truly,

  
C. Biddinger, Jr., Manager  
Environmental and Research Services

FVB/y

bcc: Mr. J. E. Dorsett  
Mr. H. O. Thrash  
Mr. O. D. Kingsley, Jr.  
Dr. W. M. Jackson  
Mr. W. R. Bayne

File: T(7) 1306 ✓

Alabama Power Company  
600 North 18th Street  
Post Office Box 2641  
Birmingham, Alabama 35291  
Telephone 205 323-5341



Alabama Power  
the southern electric system

October 9, 1980

Farley Nuclear Plant  
NPDES Permit No. AL0024619

Mr. James W. Warr  
Alabama Water Improvement Commission  
Public Health Services Building  
Montgomery, Alabama 36130

Dear Mr. Warr:

In accordance with Part II.A.2 of the referenced permit, we are submitting a noncompliance report for a violation which occurred at the referenced plant. An analysis performed on September 19, 1980, indicated a concentration of 9.80 mg/l total iron and 1.59 mg/l total copper for the Unit One Steam Generator Blowdown (discharge point 003A). As Mr. F. V. Brown discussed with Mr. J. P. Martin, the blowdown was to be resampled before this noncompliance report was to be submitted. Upon resampling on September 27, 1980, the blowdown was found to have a concentration of 0.88 mg/l total iron and 0.14 mg/l copper.

After reviewing the operation of the unit prior to sampling, we can determine no apparent cause for the original values obtained. The plant routinely checks for air inleakage and no abnormalities were observed. Based upon the data of the second sample and the state of the unit on September 19, 1980, we are forced to conclude that the sample analyzed was not indicative of the discharge for this point.

If you have any questions, please contact us.

Very truly yours,

*C. Biddinger, Jr. FVB*

C. Biddinger, Jr., Manager  
Environmental and Research Services

FVB:y

Alabama Power Company  
600 North 18th Street  
Post Office Box 2541  
Birmingham, Alabama 35291  
Telephone 205 323-5341



Alabama Power  
the southern electric system

January 15, 1981

Farley Nuclear Plant  
NPDES Permit No. AL0024619

Mr. James W. Warr  
Alabama Water Improvement Commission  
2721 Gunter Park Drive West  
Public Health Service Building  
Montgomery, AL 36130

Dear Mr. Warr:

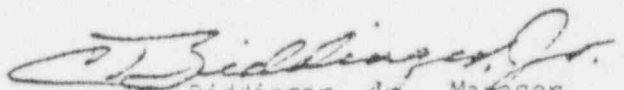
In accordance with Part IIA2 of the referenced permit, we are submitting a noncompliance report for a violation which occurred at the referenced plant. An analysis of a sample taken on November 4, 1980 indicated a concentration of 1.7 mg/l total iron for the Unit One Steam Generator Blowdown (discharge point 003A).

At the time of the violation, the plant was experiencing slight fluctuations in reactor power. As a result of these fluctuations, changing flow rates broke iron oxides from the walls of the piping and vessels within the steam supply system. The duration of this condition is not known; however, the plant was shut down November 7, 1980 for refueling.

Following refueling, Unit 1 will be returned to full power operation. This steady operating condition should minimize the possibility of another violation. We regret the late reporting of this violation. It was not discovered until the data was edited for the quarterly reports.

If you have any questions, please contact us.

Very truly yours,

  
C. Biddinger, Jr., Manager  
Environmental and Research Services

SAJ:y