

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 1859

FILE: ENVIRO

FROM: Environmental Protection Agency Atlanta, Ga. Charles H. Kaplan		DATE OF DOC 2-21-74	DATE REC'D 2-28-74	LTR	MEMO	RPT	OTHER
TO: Daniel R. Muller		ORIG	CC	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO: <u>50-269/270/287</u>		
	XXX						

DESCRIPTION:  
No ltr of trans rec'd with enclosure

**DO NOT REMOVE**

PLANT NAME: OCONEE UNITS 1, 2 & 3

ENCLOSURES:  
Info cy of ltr dtd 2-21-74 fr Charles H. Kaplan to Charles A. Dewey Jr. requesting add'l info re discharge of wastes to navigable waters

**ACKNOWLEDGED**

FOR ACTION/INFORMATION 3-6-74 GMC

- |                        |                                   |                            |                       |
|------------------------|-----------------------------------|----------------------------|-----------------------|
| BUTLER(L)<br>W/ Copies | ✓ SCHWENCER(L)<br>W/1 Copies info | ZIEMANN(L)<br>W/ Copies    | REGAN(E)<br>W/ Copies |
| CLARK(L)<br>W/ Copies  | STOLZ(L)<br>W/ Copies             | ✓ DICKER(E)<br>W/3 Copies  | W/ Copies             |
| GOLLER(L)<br>W/ Copies | VASSALLO(L)<br>W/ Copies          | KNIGHTON(E)<br>W/ Copies   | W/ Copies             |
| KNIEL(L)<br>W/ Copies  | SCHEMEL(L)<br>W/ Copies           | YOUNGBLOOD(E)<br>W/ Copies | W/ Copies             |

INTERNAL DISTRIBUTION

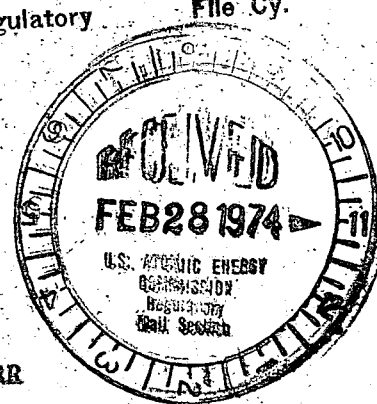
- |                               |                    |             |                  |                |
|-------------------------------|--------------------|-------------|------------------|----------------|
| ✓ <u>REG FILE</u> + 2 Ltrs    | <u>TECH REVIEW</u> | DENTON      | <u>LIC ASST</u>  | <u>A/T IND</u> |
| ✓ <u>AEC PDR</u> + 2 Ltrs     | HENDRIE            | GRIMES      |                  | BRAITMAN       |
| OGC, ROOM P-506A              | SCHROEDER          | GAMMILL     | DIGGS (L)        | SALTZMAN       |
| ✓ <u>MUNTZING/STAFF</u>       | MACCARY            | ✓ KASTNER   | ✓ GEARIN (L)     | B. HURT        |
| CASE                          | KNIGHT             | ✓ BALLARD   | ✓ GOULBOURNE (L) | <u>PLANS</u>   |
| GIAMBUSSO                     | PAWLICKI           | SPANGLER    | LEE (L)          | MCDONALD       |
| BOYD                          | SHAO               | ENVIRO      | MAIGRET (L)      | DUBE w/Input   |
| ✓ MOORE (L)(BWR)              | STELLO             | MULLER      | SERVICE (L)      | <u>INFO</u>    |
| DEYOUNG(L)(PWR)               | HOUSTON            | DICKER      | SHEPPARD (E)     | C. MILES       |
| SKOVHOLT (L)                  | NOVAK              | KNIGHTON    | SMITH (L)        | B. KING        |
| P. COLLINS                    | ROSS               | YOUNGBLOOD  | ✓ TEETS (L)      |                |
| DENISE                        | IPPOLITO           | REGAN       | WADE (E)         |                |
| ✓ <u>REG OPR</u>              | TEDESCO            | PROJECT LDR | WILLIAMS (E)     |                |
| ✓ <u>FILE &amp; REGION(3)</u> | LONG               | ✓ HARLESS   | WILSON (L)       |                |
| MORRIS                        | ✓ LAINAS           |             | S. REED (L)      |                |
| STEELE                        | ✓ BENAROYA         |             |                  |                |
|                               | VOLLMER            |             |                  |                |

EXTERNAL DISTRIBUTION

- |  |  |   |
|--|--|---|
| ✓ 1 - LOCAL PDR WALHALLA, SC             | ✓ (1) <del>(2)</del> NATIONAL LAB'S ORNL | 1-PDR-SAN/LA/NY                         |
| ✓ 1 - DTIE (ABERNATHY)                   | 1-ASLBP (E/W Bldg, Rm 529)               | 1-GERALD LELLOUCHE                      |
| ✓ 1 - NSIC (BUCHANAN)                    | ✓ 1-W. PENNINGTON, Rm E-201 GT           | BROOKHAVEN NAT. LAB                     |
| 1 - ASLB (YORE/SAYRE/<br>WOODARD/"H" ST. | 1-CONSULTANT'S<br>NEWMARK/BLUME/AGBABIAN | 1-AGMED (Ruth Gussman)<br>RM-B-127, GT. |
| 16 - CYS ACRS HOLDING                    | 1-GERALD ULRIKSON... ORNL                | 1-RD..MULLER..F-309 GT                  |

United States Environmental Protection Agency  
Region IV  
1421 Peachtree St., N. E.  
Atlanta, Georgia 30309

Regulatory File Cy.



FEB 21 1974

CERTIFIED/RRR

Mr. Charles A. Dewey, Jr.  
Principal Environmental Engineer  
Duke Power Company  
Charlotte, North Carolina 28201

RE:Oconee Docket Nos. 50-269/270/287  
APP. NO.: SC 074 OYN 3060037

Dear Mr. Dewey:

In accordance with the Federal Water Pollution Control Act Amendments of 1972, we are nearing the final stages of processing your application for a permit to discharge wastes to navigable waters. To assure that the public notice and the NPDES permit contain current data, please review the above referenced application and, if necessary, update it to reflect current wastewater treatment conditions at the plant.

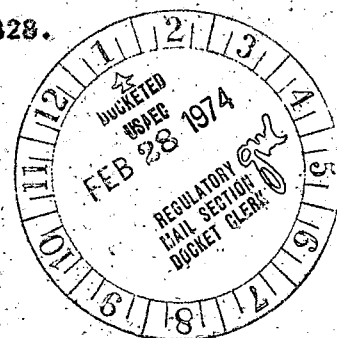
Our preliminary evaluation of thermal effects indicates that we have insufficient data to assure you that a possibility exists for this facility to qualify for a 316(a) waiver with regard to the thermal component of your discharge. However, if you intend to ask for a 316(a) waiver for this facility, please advise us in your reply. In order to support such a waiver and to develop effluent limitations, monitoring requirements and implementation schedules, the attached additional information and data are required in duplicate and should be mailed within 30 days of receipt of this notification. You may also submit any additional information you have available.

A cover letter signed by the Applicant's Authorized Agent for permit correspondence stating that to his best knowledge the information is accurate, must accompany this additional information.

If you have any questions, please contact me at 404/526-2328.

Sincerely,

Charles N. Kaplan  
Chief, Thermal Analysis Section  
Water Enforcement Branch



Enclosure

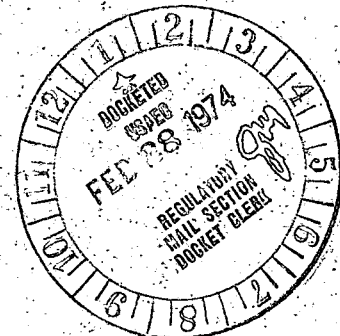
CC: SC Dept. of Health & Environmental Control

U.S. Atomic Energy Commission

1859

## SUPPLEMENTAL INFORMATION REQUEST

- A. Schematic flow diagrams of water use, treatment provided, recycle accomplished, and discharges indicating rates of flow for individual waste streams. Individual waste streams should include, but are not necessarily limited to, the following where applicable:
1. Boiler blowdown
  2. Floor drains
  3. Chemical cleaning of boiler, turbine and other plant equipment (indicate cleaning frequencies)
  4. Radwaste Streams
  5. Ash pond overflow
  6. Oil storage runoff
  7. Intake screen backwash (indicate method of screening disposal)
  8. Water treatment wastes
    - a. Lime-soda softening
    - b. Sedimentation
    - c. Filter backwash
    - d. Demineralizer (ion exchange) regeneration
    - e. Evaporator blowdown
  9. Effluents from air pollution control devices
  10. Sanitary wastes
  11. Cooling system blowdown (circulating, makeup and discharge flows, frequency of discharge, and concentration factor should be indicated)
- B. Provide the following information for your condenser cooling water intake and discharges (by individual units where practical)
1. Mechanism for condenser cleaning
  2. Maximum intake and discharge velocities in the intake pipe or canal, in front of the intake structure, and through the screens should be provided, as well as detailed intake drawings.
  3. Number, capacity and operational schedule of pumps as a function of season of year, plant output, etc.
  4. Retention time in minutes from start of water temperature rise to discharge of cooling water.
  5. Design temperature rise across the condenser and design flow.
  6. Water temperature frequency of occurrence. Indicate temperatures which are exceeded 10% of the year, 5% of the year, 1% of the year and not at all (maximum yearly temperature) for both intake and discharge water.



7. Indicate in the following format any fish or shellfish impinged on the intake screens or other devices.

	Approximate No./Day	Species	
		Predominant	Others
Fish, larger than 15 cm (6")			
Fish, smaller than 15 cm (6")			
Shellfish			

If any factors such as time of year, river flow and/or tidal stage, or any other conditions appear to increase or decrease the frequency or size of fish captured, please so indicate. Include Biological Reports.

8. Results of updated modeling efforts based on verifications of previous thermal models utilizing actual field data to include receiving water temperature distribution for each month of the year for average and critical (10-year recurrence) meteorological and hydrological conditions. Isotherm plots, both plan and cross-sectional, and tabulation of acreages down to the 1°C excess temperature in no more than 2°C increments (at least three values should be provided) for maximum expected plant loading. Zones of passage should be identified. Measurement methods, modeling techniques, assumptions, and/or source of calculations should be provided. Copies of any aerial photos showing thermal plumes.
- C. Indicate plans, if any, for treating, re-use, or changing any existing discharges, including estimated completion dates.
- D. Listing of chemicals used including amounts and/or concentrations, frequency and purpose. Chemical composition of trade-name chemicals.
- E. Discussion of present and proposed procedures for treatment of equipment cleaning wastes.
- F. Report(s) of any studies conducted to determine feasibility of use of closed cycle cooling.