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ENVIRON. FILE (NEPA)

NOTE TO FILE:

ENVIRONMENTAL TECHNICAL SPECIFICATION MEETING HELD BY EP WITH DUKE POWER COMPANY ON 11/15/72

The purpose of the subject meeting was to discuss Duke comments on the draft Environmental Technical Specification proposed by EP. People who attended are listed in an attachment to this note along with the draft Appendix B (ETS) and a specification outline used at the meeting.

Problems involving plant operating parameters and discharges appear to be resolved. Agreement was reached on maximum temperature, ΔT and rate of temperature change although some questions remain regarding just exactly how Duke will operate the plant to control ΔT. This apparently is a trade off between constant ΔT at as low as practicable and the rate at which cool water in the lake is used up during some months of the year.

Maximum temperature from condenser discharge will be 100°F (averaged for three units), maximum ΔT will be 30°F and maximum rate of decrease will be 6°F/hour in the winter and 10°F/hour in the spring and fall.

Duke raised the question as to what constitutes chemical discharge and questioned the requirement of coordinating chemical discharges with the hydro operation. Chemical discharge is being interpreted as just what the plant adds to the environment and it was decided that there would be no requirement to coordinate chemical discharges with the hydro operation. However, spec should include pH limits (between 6 - 8.5) and the yearly quantities and maximum concentrations of release. Duke should include a statement that it does not plan to use chlorine. All chemical releases will be by way of a 8 million gallon settling pond having a continuous discharge into the Keowee River.

On the matter of drawdown of the lake, Duke has a tech spec limit of no further than 775 feet elevation but also has an agreement with the Corporation of Engineers that it will draw down to 775 feet in the event of a draught.

The problems involving environmental surveillance were not resolved easily or totally. Part of the trouble lies in the fact that Keowee is such a new lake that baseline data does not exist. Duke would like to take full advantage of the Department of Interior Studies now going on but it is not clear how Duke will work up its program around the Interior's program and what will happen if Interior pulls out. Duke also feels that non generic studies are too taxing on manpower when lots of plants come on the line and therefore, the effort should be to perform generic studies in a fairly homogeneous region and devote the rest of the effort to special problem area research. EP does not feel that we are at the point where we can say that Lake Norman

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is the same as Lake Keowee. This matter is still unresolved.

Duke will use vegitation as an index of impact rather than animals because it is easier, cheaper and involves less manpower and in the long run avoids an impact on wild life worse than the main reason for the study.

Duke will redraft the Environmental Technical Specification and resubmit it for EP review in the near future.

It was also stated by Duke that it made application for its State Water Quality Certificate June 23, 1971 but has not received it. This is a prerequisite to licensing.

I. A. Peltier

cc: I. A. Peltier
A. Schwencer
R. C. DeYoung

Enclosures:
As stated

Attendees-- Meeting with Duke Power Company on Oconee Environmental (non-radiological) Technical Specifications. November 15, 1972

1. Fred J. Clark, Jr.	AEC- L (Environ. Proj. Mgr.
2. John J. Bolen	AEC-L (Environ Spec. Br.)
3. J. Ed Smith	Duke Power Co. -Oconee
4. K. S. Canady	" " " -Production
5. D. E. Voyles	" " " -Production
6. R. Fred Gray	" " " -Production
7. Brent Sigmon	" " " -Engineering
8. Ben W. Breedlove	" " " -Design Eng.
9. William D. Adair	" " " -Production
10. Leo Higginbotham	AEC - RO: Hq.
11. Charles Campbell	AEC - RO: II
12. Irving A. Peltier	AEC - L (Licensing Proj. Mgr.)

TECHNICAL SPECIFICATIONS FOR OCONEE NUCLEAR STATION
UNITS 1 & 2

I General areas of concern

A. Plant Operating Parameters and Discharges

B. Surveillance Programs and Special Studies

A. Plant Operation Parameter and Discharges

1. General format

a. Objective

b. Applicability

c. Specification (to include corrective action)

d. Monitoring

e. Basis

2. Areas requiring specifications

a. Plant cooling water system - Thermal limits

(1) ΔT limit

(2) Discharge water limit

(3) Rate of temperature change limit

b. Plant chemical discharge limits

(1) Keep present spec A

(2) Spec table in ER

(3) Add statement on total residual chlorine

c. Reservoir drawdown limit

B. Surveillance Program & Special Studies

1. General format

a. Objective

b. Specification

c. Basis

2. Areas requiring specification

a. General aquatic surveillance

b. General terrestrial surveillance

c. Fish entrapment in intake structure

d. Plankton entrainment study

May want to combine.
e. Thermal plume mapping-verification of model
f. Oxygen content of plume water study

g. Gas bubble disease study

Rippling