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D. Houston

MAY 21 1985

Docket No. 50-458

MEMORANDUM FOR: Dennis M. Crutchfield, Assistant Director
for Safety Assessment, DL

Thomas M. Novak, Assistant Director
for Licensing, DL

THRU: William V. Johnston, Assistant Director
Materials, Chemical & Environmental Technology, DE

FROM: Ronald L. Ballard, Chief
Environmental & Hydrologic Engineering Branch, DE

SUBJECT: EHEB REVIEW OF RIVER BEND UNIT 1 TECHNICAL SPECIFICATIONS

As requested, we have reviewed the hydrologic engineering related technical specifications for River Bend Unit 1 which consists of Technical Specification 3/4.7.1.2 Ultimate Heat Sink - Limiting Conditions for Operation.

We do not agree with the proposed basin water level at elevation 108' 6" msl. This will not provide for enough water to assure meeting the requirements of R.G. 1.27 and GDC 44. It is our understanding from discussions with the applicant, that the applicant intends to propose the elevation of 111' 10" msl as the new limit. We find this water level elevation to be acceptable and have attached a marked-up copy of the technical specification to show our requested changes.

In regard to the applicant's intent to delay fan start on the cooling tower in the event of an accident, we recommend that any technical specifications addressing this item be issued separately at a later date. We recommend this because of the late submittal of the applicant's proposed changes (March 15, 1985), and the trade-offs in safety which involve other review branches. Our contractor has made

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an independent analysis of the applicant's proposed fan start delay of two hours and has found it acceptable. Our contractor is capable of looking at other scenarios which the Auxiliary Systems Branch (ASB) may wish to consider.

In addition, it is our understanding that ASB will require that a continuous basin water temperature monitoring system be installed in the future. We agree with this requirement particularly in consideration of the delayed fan start.

Ronald L. Ballard, Chief
Environmental & Hydrologic
Engineering Branch
Division of Engineering

Attachment:
As stated

cc: D. Houston
S. Stern
J. Ridgely
D. Chery
R. Wescott

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LIMITING CONDITION FOR OPERATION

3.7.1.2 The standby cooling water storage basin shall be OPERABLE with:

a. A minimum basin water level at or above elevation ~~108'6"~~ 111' 10" Mean Sea Level, USGS datum, and

b. An average basin water temperature of less than or equal to 82°F.

c. Two OPERABLE cooling tower fan cells (5 fans per cell) per division.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, 5 and *.

ACTION:

With the requirements of the above specification not satisfied:

a. With the basin water level less than ~~108'6"~~ 111' 10" MSL or the temperature greater than 82°F, then declare the SSW system inoperable and take the Action required by Specification 3.7.1.1.

b. With any one fan cell inoperable, restore the inoperable fan cell to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours and COLD SHUTDOWN within the next 24 hours.

c. With one fan cell per division inoperable, restore at least one to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the next 24 hours.

d. In OPERATIONAL CONDITION 1, 2 or 3 with only one fan cell OPERABLE, declare one SSW subsystem inoperable and take the ACTION required by Specification 3.7.1.1.

e. In OPERATIONAL CONDITION 4, 5 with no fan cells OPERABLE, declare the SSW system inoperable and take the ACTION required by Specification 3.7.1.1.

f. In Operational Condition * with no fan cells OPERABLE, declare the SSW system inoperable and take the ACTION required by Specification 3.7.1.1. The provisions of Specification 3.0.3 are not applicable.

*When handling irradiated fuel in primary or secondary containment.