



Department of Energy
Washington, D.C. 20545

Docket No. 50-537
HQ:S:82:113

OCT 21 1982

Mr. Paul S. Check, Director
CRBR Program Office
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Check:

MEETING SUMMARY FOR THE DECAY HEAT REMOVAL/THERMAL HYDRAULICS MEETING,
OCTOBER 20, 1982

The purpose of this letter is to summarize the resolution of items discussed between the Nuclear Regulatory Commission and the Clinch River Breeder Reactor Plant Project on October 20, 1982.

Enclosure 1 is the agreements and commitments from the meeting, Enclosure 2 is the agenda used for the meeting, and Enclosure 3 is the list of attendees.

Any questions regarding the information provided or further activities can be addressed to A. Meller (FTS 626-6355) or D. Florek (FTS 626-6188) of the Project Office Oak Ridge staff.

Sincerely,

John R. Longenecker
Acting Director, Office of the
Clinch River Breeder Reactor
Plant Project
Office of Nuclear Energy

Enclosures

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DECAY HEAT REMOVAL MEETING, OCTOBER 20, 1982
AGREEMENTS AND COMMITMENTS

1. Natural Circulation Beyond 600 Seconds

ACTION: The Project will provide analysis for natural circulation beyond 600 seconds by December 1, 1982.

2. DHRS Analysis

The results of a delayed initiation and single failure of the Direct Heat Removal Service were discussed.

ACTION: A table of DHRS operating cases and sensitivities will be added to the docket by October 26, 1982, and included in a future PSAR update.

ACTION: The project will provide their rationale in the PSAR for the acceptability of manual initiation of DHRS.

3. Sodium Dump and Water Dump Interlocks

The project indicated that suitable interlocks will be provided to minimize the possibility of erroneous dumps.

ACTION: This commitment will be included in the PSAR.

4. Pump Testing at DHRS Temperatures

The temperature testing experience and plans for the primary and EM pump were discussed.

ACTION: The test experience and plans will be summarized for the EM and primary sodium pump and placed on the docket by October 26, 1982, and included in the PSAR in a future amendment.

5. EM Pump Capability

The capability of the EM pumps within the DHRS system was discussed. The results will be summarized and placed on the docket by October 26, 1982, and included into the PSAR in a future amendment.

6. Positive Commitment for DHRS Single Failure Capability

The Project is committed to design the DHRS to be single failure tolerant.

7. Thermal Evaluation of the PACC System

The recent PSAK update of the PACC system was discussed with NRC.

ACTION: NRC will review this update and provide any comments to the project by November 15, 1982.

ACTION: The Project will commit in the PSAR to conduct a natural circulation test on the air side in the plant.

8. Single Failure Analysis of DHRS by the FSAR

ACTION: By the FSAR the Project will prepare an FMEA to demonstrate the single failure tolerance of the DHRS.

9. CRBRP-ARD-308 Coast Down Times

The difference between the water test and sodium pump coast down-times was explained. This item is considered to be resolved.

OPEN ITEMS FROM OCTOBER 6 MEETING

- 1) NATURAL CIRCULATION BEYOND 600 SECONDS
- 2) DHRIS ANALYSIS
 - DELAYED INITIATION
 - SINGLE FAILURE
- 3) SODIUM DUMP AND WATER DUMP INTERLOCKS
- 4) PUMP TESTING AT DHRIS TEMPERATURES
 - PRIMARY PUMP
 - EM PUMP
- 5) EM PUMP CAPABILITY
- 6) POSITIVE COMMITMENT FOR DHRIS SINGLE FAILURE CAPABILITY
- 7) THERMAL EVALUATION OF PACC SYSTEM
- 8) SINGLE FAILURE ANALYSIS OF DHRIS
- 9) CRBRP-ARD-308 COAST DOWN TIMES

DECAY HEAT REMOVAL MEETING
OCTOBER 20, 1982Attendees

Al Meller
S. L. Additon
D. J. Florek
G. H. Clare
R. E. Hottel
Mohsen Kahtib-Rahbar
D. Elias
T. L. King
Rich Stark
Stephen Sands
Dick Becker
Bob Capp
R. R. Lowrie

Organization

CRBRP-PO/PSD
Westinghouse - Bethesda
CRBRP-PO
Westinghouse - Oak Ridge
Westinghouse - Oak Ridge
Brookhaven
CRBRP-PO
CRBRPO/NRC
CRBRPO/NRC
CRBRPO/NRC
CRBRPO/NRC
EG&G Bethesda
Westinghouse - WM