

OAK RIDGE NATIONAL LABORATORY

OPERATED BY

UNION CARBIDE CORPORATION
NUCLEAR DIVISION



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ay 12, 1981

Mr. James R. Miller, Chief
Standardization and Special Projects Branch
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



Dear Mr. Miller:

Subject: Monthly Report - "Applicability of TMI Action Plan Requirements to Fort St. Vrain and HTGRs", for Period Ending May 15, 1981 (FIN NO. B0762)

Work Completed During the Reporting Period

The task was initiated April 17, 1981. Each of the action plan items in NUREG-0737 was reviewed briefly to determine its applicability to Fort St. Vrain and to HTGRs in general. Letters submitted by Public Service Co. of Colorado (PSC) responding to the Action Plan items were also reviewed briefly to determine areas in which there may be some question or disagreement as to the applicability of the NRC requirements. The results of this preliminary survey are given in Enclosure 1.

The survey of the Action Plan items which were considered applicable to Fort St. Vrain indicated that there were a number of topics for which technical assistance is needed from persons outside the present ORNL/RSR HTGR Safety Program group. Initial steps were taken to identify and enlist them. Those topics requiring outside help are identified as noted in Enclosure 1.

Discussions were held with NRR staff in Bethesda on April 30 to clarify the work scope requirements. Additional reference material on emergency response plan and emergency response facility requirements was obtained and reviewed. In-depth reviews of these documents (NUREG-0654 rev. 1 and 0693) will be factored into the existing tasks per NRR request.

The work proposal (Standard Order for DOE Work) for the program was written and submitted.

Funds Spent During the Reporting Period

(It should be noted that expenditures for monthly periods ending the 15th of the month cannot be reported precisely because the ORNL financial reporting system works by the month.)

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Estimated costs for manpower:

Task 1: \$2900

Task 2: \$0

Computer Costs: \$0

Travel Costs: \$300

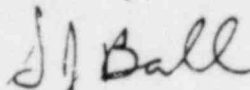
Problems or Delays Encountered or Anticipated

None.

Plans for the Next Reporting Period

Sources of additional technical assistance will be identified, recruited, and put to work on specific action item tasks. Selected tasks will be reviewed in depth.

Yours truly,



S. J. Ball

Instrumentation & Controls Division

SJB:rtw

cc: Director, Division of Licensing, NRR
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NUREG-0737 Review

1. Action Plan Items that do not apply to Fort St. Vrain or HTGRs - No plans for further review.

<u>Item No.</u>	<u>Title</u>
I.B.1.2	Independent Safety Engineering Group
II.B.1	Reactor Coolant System Vents
II.D.1	Performance Testing of Boiling-Water Reactor and Pressurized-Water Reactor Relief and Safety Valves (NUREG-0578, Section 2.1.2)
II.D.3	Direct Indication of Relief-and Safety-Valve Position
II.E.3.1	Emergency Power Supply for Pressurizer Heaters
II.E.4.1	Dedicated Hydrogen Penetrations
II.G.1	Emergency Power for Pressurizer Equipment
II.K.2	Orders on B&W Plants
II.K.3	Final Recommendations by the B&O Task Force*

*Except for items 17,18,30, and 31

NUREG-0737 Review

2. Action Plan Items whose applicability to Fort St. Vrain and HTGRs is questionable or partial - Further Review is required:

<u>Item No.</u>	<u>Title</u>
II.E.1.1	Auxiliary Feedwater System Evaluation
II.E.1.2	Auxiliary Feedwater System Automatic Initiation and Flow Indication
II.E.4.2	Containment Isolation Dependability
II.F.1	Noble Gas Effluent Monitor
II.F.2	Instrumentation for Detection of Inadequate Core Cooling
II.K.3.18	Modification of Automatic Depressurization System Logic--Feasibility for Increased Diversity for Some Event Sequences
II.K.3.30	Revised Small-Break Loss-of-Coolant-Accident Methods to Show Compliance with 10 CFR Part 50, Appendix K
II.K.3.31	Plant-Specific Calculations to Show Compliance With 10 CFR Part 50.46
III.D.1.1	Integrity of Systems Outside Containment Likely to Contain Radioactive Material for Pressurized-Water Reactors and Boiling-Water Reactors

NUREG-0737 Review

3. Action Plan Items that apply to Fort St. Vrain and/or HTGRs - Recommendations will be developed:

<u>Item No.</u>	<u>Title</u>	<u>Need Outside help?</u>
I.A.1.1	Shift Technical Advisor	
I.A.1.3	Shift Manning	
I.A.2.1	Immediate Upgrading of Reactor Operator and Senior Reactor Operator Training and Qualifications	
I.A.2.3	Administration of Training Programs	yes
I.A.3.1	Revise Scope and Criteria for Licensing Examinations-- Simulation Exams	
I.C.1	Guidance for the Evaluation and Development of Procedures for Transients and Accidents	
I.C.5	Procedures for Feedback of Operating Experience to Plant Staff	
I.C.6	Procedures for Verifying Correct Performance of Operating Activities	
I.D.1	Control-Room Design Reviews	yes
I.D.2	Plant Safety Parameter Display Console	yes
II.B.2	Design Review of Plant Shielding and Environmental Qualification of Equipment for Spaces/ systems Which May Be Used In Postaccident Operations	yes
II.B.3	Postaccident Sampling Capability	yes
II.B.4	Training for Mitigating Core Damage	
II.K.3.17	Report on Outages of Emergency Core-Cooling Systems Licensee Report and Proposed Technical Specification Changes	
III.A.2	Improving Licensee Emergency Preparedness--Long-Term	yes
III.D.3.3	Improved Inplant Iodine Instrumentation Under Accident Conditions	yes
III.D.3.4	Control-Room Habitability Requirements	