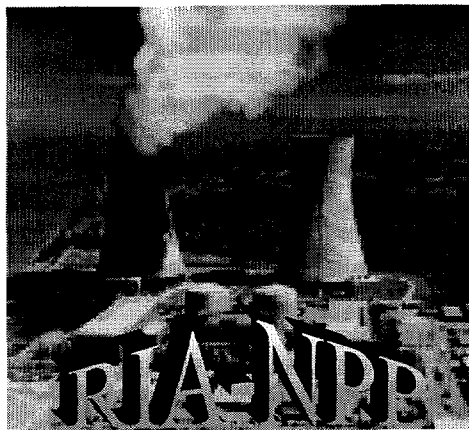


# **Nuclear Energy Research Initiative**

**Cooperative Agreement DE-FC03-99SF21902**

## **TECHNICAL PROGRESS REPORT 3Q99**



October 29, 1999

## **DISCLAIMER**

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## **DISCLAIMER**

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Narrative:

Task 0: Project Management

- A. Task Status: In late August, ABB Combustion Engineering Nuclear Power (ABB CENP) received the Notice of Financial Assistance Award for this project. On September 7, 1999, it was signed and sent to DOE along with other requested information.

In September, project staffing and subcontractor coordination was initiated, including plans for an October 7-8 kickoff meeting.

- B. Issues/Concerns: None.

Task 1: Development of Risk-Informed Methodologies

- A. Task Status: On September 15, ABB CENP attended the NRC workshop on risk-informing 10 CFR Part 50 in Rockville, Md. ABB CENP presented a summary of the NERI risk-informed, smart equipment, and improved design/construction programs and emphasized the importance of coordinating the NERI efforts with the ongoing NRC risk-informed program for operating plants. This workshop also provided clarification of NRC's current program and industry comments were discussed, including potential synergy among all related programs.

- B. Issues/Concerns: None.

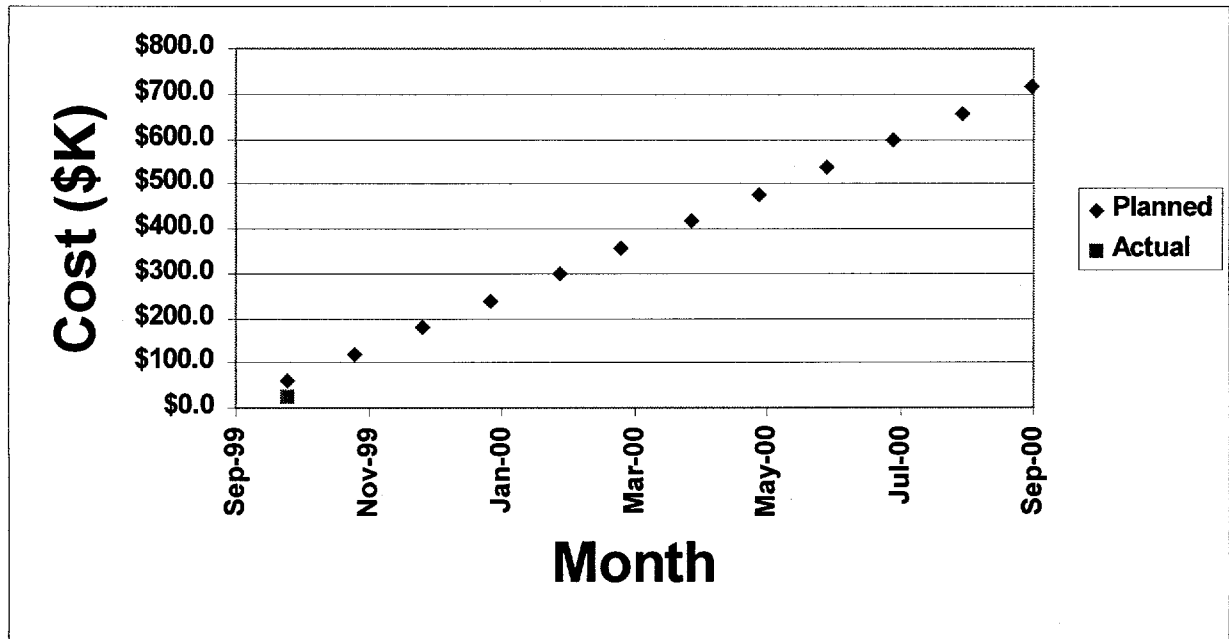
Task 2: Strengthening the Reliability Database

- A. Task Status: No technical action this month; initial planning was carried out under Task 0.

- B. Issues/Concerns: None.

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Cost Performance:



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Status Summary of NERI Tasks – Phases 1-3:

**Phase 1: 8/20/99 – 8/19/00**

<b>Milestone/Task Description</b>	<b>Planned Completion Date</b>	<b>Actual Completion Date</b>
Completion of subtask 1.1, identify all applicable regulatory requirements	8/18/00	
Completion of subtask 1.2, identify SSCs and typical costs	8/18/00	
Begin subtask 1.3, develop methodology to risk-inform regulations	See Phase 2	
Begin subtask 1.4, develop methodology to simplify SSCs	See Phase 2	
Begin subtask 1.5, identify high priority requirements and SSCs	See Phase 2	
Begin subtask 1.7, evaluate reg. process	See Phase 3	
Begin subtask 1.8, coordinate activities with industry and NRC	See Phase 3	
Completion of subtask 2.1, identify current data sources	12/30/99	
Begin subtask 2.2, identify weaknesses	See Phase 2	

**Phase 2: 8/20/00 – 8/19/01**

<b>Milestone/Task Description</b>	<b>Planned Completion Date</b>	<b>Actual Completion Date</b>
Completion of subtask 1.3, develop methodology to risk-inform regulations	8/1/01	
Completion of subtask 1.4, develop methodology to simplify SSCs	8/1/01	
Completion of subtask 1.5, identify high priority requirements and SSCs	8/1/01	
Begin subtask 1.6, apply methodologies	See Phase 3	
Continue subtask 1.7, evaluate regulatory process	See Phase 3	
Continue subtask 1.8, coordinate activities with industry and NRC	See Phase 3	
Completion of subtask 2.2, begin subtask 2.2, identify data weaknesses	8/31/00	
Begin subtask 2.3, develop programs	See Phase 3	

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**Phase 3: 8/20/01 – 3/19/02**

<b>Milestone/Task Description</b>	<b>Planned Completion Date</b>	<b>Actual Completion Date</b>
Completion of subtask 1.6, apply methodologies to sample SSCs	3/1/02	
Completion of subtask 1.7, evaluate regulatory process	3/19/02	
Completion of subtask 1.8, coordinate activities with industry and NRC	3/19/02	
Completion of subtask 2.3, develop programs to correct weaknesses	3/1/02	

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## TECHNICAL PROGRESS REPORT

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DOE F 4600.3 (03-94) Replaces EIA-459B		U.S. DEPARTMENT OF ENERGY FEDERAL ASSISTANCE MILESTONE PLAN OMB Burden Disclosure Statement		Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management Policy, Plans, and Oversight, Records Management Division, HR-422 - GTN, Paperwork Reduction Project (1910-0400), U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget (OMB), Paperwork Reduction Project (1910-0400), Washington, DC 20503.	
1. Program/Project Identification No. DE-FC03-99SF21902		2. Program/Project Title Risk-Informed Assessment of Design and Regulatory Requirements for NPPs		3. Performer (Name, Address) ABB Combustion Engineering Nuclear Power, Inc. 2000 Day Hill Road Windsor, CT 06095-0500 Attn: PI Stanley Ritterbusch	
4. Program/Project Start Date 8/20/99		5. Program/Project Completion Date 3/19/02			
6. Identification Number		7. Planning Category (Work Breakdown Structure Tasks)		8. Program/Project Duration (1)	
1.1		Identify Reg. Requirements		9/00	
1.2		Identify SSCs & Costs		9/99	
1.3		Develop Reg. Methods		9/00	
1.4		Dev. Simplification Methods		9/00	
1.5		Identify Priority SSCs		9/00	
1.6		Apply Methods to Sample		9/00	
1.7		Evaluate Reg. Process		9/00	
1.8		Industry Coordination		9/00	
2.1		Identify Data Sources		9/00	
2.2		Identify Data Weaknesses		9/00	
2.3		Develop Corrective Programs		9/00	
10. Remarks					
(1) Two months/box (2) ABB is lead organization; collaborating orgs are Sandia, INEL, MIT, DEAS, NCSU, Egan & Associates					
11. Signature of Recipient and Date					
12. Signature of U.S. Department of Energy (DOE) Reviewing Representative and Date					

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