

Docket No. 50-336  
B14855

Attachment 1  
Millstone Nuclear Power Station, Unit No. 2  
Root Cause Evaluation Team Plan


May 1994

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Root Cause Evaluation Plan

**“Review of Millstone Unit 2’s Ability to Assess, Classify,  
and Analyze Events”**

Submitted by:

 5/12/94  
Kevin E. Gosselin Date  
Lead Evaluator, Root Cause Evaluation Team

## 1.0 Introduction

At the request of the Director - Millstone Unit 2 (MP2), a formal root cause investigation of the operational events which resulted in three late Unusual Event Notifications between April 20-23, 1994 at MP2 will be performed in accordance with NEO 3.15, "Root Cause Evaluation".

## 2.0 Problem Statements

The Root Cause Evaluation Team will evaluate the following:

- 2.1 MP2's ability to assess, classify and analyze events, and make the appropriate notifications.
- 2.2 MP2's ability (i.e. management, operations, etc.) to recognize the significance of events.

## 3.0 Scope

- 3.1 Review the operational aspects of the April 1994 events. Specifically:
  - a. RCS Leak Event (PIR 2-94-143)
  - b. Stuck Control Rod Event (PIRs 2-94-144, -145, -146)
  - c. Insufficient Shutdown Margin Event (PIR 2-94-147)
- 3.2 Review the Emergency Preparedness aspects of the April 1994 events (i.e. failure to meet MP2 Technical Specifications and the failure to properly use MP2's Emergency Action Level (EAL) Tables) which resulted in three late Unusual Event Notifications between April 20 - 23, 1994.
- 3.3 Assess the adequacy of MP2's root cause capability.
- 3.4 Assess the ability of MP2 to identify and ameliorate Control Rod Drive System malfunctions.

## 4.0 Team Members

<u>Name</u>	<u>Role</u>	<u>Title</u>
Kevin E. Gosselin	Lead Evaluator	Project Manager, Nuclear Planning
Robert J. Hanley	Member	Operations Training Manager - Seabrook
Robert J. Kastner	Member	Engineer, Nuclear Safety Engineering
Jeffrey G. Coon	Member	Engineer, Nuclear Safety Engineering
Joseph J. Parillo	Consultant	Supervisor, Nuclear Fuels Engineering
Allan M. Stave	Consultant	Senior Scientist, Human Factors

## 5.0 Schedule

<u>Event</u>	<u>Date(s)</u>	<u>Location</u>
Kickoff Meeting	May 10, 1994	Millstone
Scope Problem	May 10, 1994	Millstone
Develop Evaluation Plan	May 11, 1994	Millstone
Data Collection/Interviews	May 12-17, 1994	Millstone, Berlin
Data Analysis	May 12-20, 1994	Millstone
Report Generation	May 16-20, 1994	Millstone
Issue Final Report	May 20, 1994	Millstone

## 6.0 Expected Interfaces

The following departments will be contacted for written and verbal information:

- MP2 Management
- MP2 Operations
- MP2 Instrumentation and Controls
- MP2 Engineering
- MP2 Licensing
- MP2 Simulator and Operator Training
- Millstone Emergency Preparedness Department
- Nuclear Safety Engineering - HPES/Operating Experience

## 7.0 Report Format

The Evaluation Team will issue a single report which addresses the Problem Statements and Scope of this Root Cause Evaluation Plan. The Evaluation Team expects to meet the schedule outlined in Section 5.0; however, should the scope need to be expanded to ensure for proper review, the Director - MP2 and any affected department managers will be promptly notified in accordance with NEO 3.15, Section 6.4.