

# Nine Mile Point 2

## 2Q/2007 Plant Inspection Findings

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### Initiating Events

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### Mitigating Systems

**Significance:**  Mar 31, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

#### **Failure to Follow Procedure Caused Inadvertent Isolation of RCIC Steam Supply**

A self-revealing NCV of TS 5.4 was identified on January 11, 2007, when the Unit 2 RCIC system automatically isolated as a result of an improperly performed surveillance procedure. When performing a test of the temperature instrument that provides RHR and RCIC system high area temperature isolations, technicians failed to ensure that the affected channel was bypassed prior to disconnecting the input thermocouple. This resulted in an automatic isolation of the RCIC system steam supply and the unavailability of RCIC for approximately four hours. The finding is greater than minor because it is associated with the human performance attribute of the Mitigating Systems cornerstone and affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. The finding is of very low safety significance in accordance with IMC 0609, Appendix A based on a Phase 3 analysis. The Region I SRA used the Unit 2 SPAR model and the actual four-hour exposure time to determine that the increase in core damage frequency was in the range of high E-9 per year. This finding has a cross-cutting aspect in the area of human performance because the technicians failed to use appropriate human error prevention techniques, such as self-checking and prominent visual identification of critical procedure steps.

Inspection Report# : [2007002](#) (*pdf*)

**Significance:**  Jan 18, 2007

Identified By: NRC

Item Type: NCV NonCited Violation

#### **Failure to Ensure Integrity of Unit 2 Examinations and Tests**

A Green NRC-identified non-cited violation (NCV) of 10CFR55.49 was identified, concerning an apparent compromise of the 2006 annual operating requalification examinations at Unit 2. NRC inspectors identified practices that collectively had the impact of compromising, albeit unintentionally; the examinations, these practices included: 1) a lack of simulator exam scenario diversity (i.e., The scenarios were substantially the same including: critical tasks; major transients; Emergency Operating Procedure flow paths; and emergency classifications); 2) an overuse of a single emergency operating procedure strategy (i.e., full core Anticipated Transient Without Scram); and 3) a pattern of crews validating scenarios substantially similar to their exam scenario sets. The licensee initiated CR-NM-2006-4808 that documented this concern and later initiated a Category I Root Cause Analysis.

This finding was more than minor because it was associated with the Human Performance attribute of the Initiating Events, Mitigation Systems, and Barrier Integrity cornerstones and affected the combined objective of: limiting the likelihood of; ensuring the availability and reliability of mitigating systems to respond to; and providing reasonable assurance that physical barriers protect the public from radio nuclide releases caused by, initiating events. The finding was assessed as having very low safety significance because immediate and substantive corrective actions were taken by Constellation prior to the end of the current exam cycle.

The finding has a cross-cutting aspect in the area of problem identification and resolution because Constellation did not effectively collect, evaluate, and communicate applicable external operating experience to affected internal stakeholders nor did they conduct self-assessments that were comprehensive, appropriately objective, and self-critical such that the 2006 Unit 2 exam compromise issues were either avoided altogether or at least identified and corrected

by Constellation prior to the start of this inspection  
Inspection Report# : [2006011](#) (*pdf*)

**Significance:**  Jan 18, 2007

Identified By: NRC

Item Type: FIN Finding

### **Unit 2 Crew Failure Rate on the Dynamic Simulator Portion of the Annual Operating Examinations**

A finding of very low safety significance (Green) was identified at Unit 2. The finding was associated with crew performance on the simulator during the 2006 facility-administered requalification examinations. Of the six crews evaluated, two failed to pass their simulator examinations when the newly developed more comprehensive exams were re-administered in response to the above noted preliminary White finding. The failures are documented in licensee-initiated Condition Report CR 2006-5797, which resulted in Constellation conducting a Category I Root Cause Analysis.

This finding was more than minor because it was associated with the Human Performance attribute of the Initiating Events, Mitigation Systems, and Barrier Integrity cornerstones and affected the combined objective of: limiting the likelihood of; ensuring the availability and reliability of mitigating systems to respond to; and providing reasonable assurance that physical barriers protect the public from radio nuclide releases caused by, initiating events. The finding was assessed as having very low safety significance because: 1) the failures occurred during annual testing of the operators on the simulator; 2) there were no actual consequences to the failures; 3) the crews were removed from watch standing duties, retrained and re-evaluated before they were authorized to return to control room watches; and, 4) because the crew failure rate for the 2005 Unit 2 Annual Operating Exams was less than 20%.

Inspection Report# : [2006011](#) (*pdf*)

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## **Barrier Integrity**

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## **Emergency Preparedness**

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## **Occupational Radiation Safety**

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## **Public Radiation Safety**

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## **Physical Protection**

Although the NRC is actively overseeing the Security cornerstone, the Commission has decided that certain findings pertaining to security cornerstone will not be publicly available to ensure that potentially useful information is not provided to a possible adversary. Therefore, the [cover letters](#) to security inspection reports may be viewed.

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## **Miscellaneous**

Last modified : August 24, 2007