

# Limerick 1

## 3Q/2006 Plant Inspection Findings

---

### Initiating Events

---

### Mitigating Systems

**Significance:**  Jun 23, 2006

Identified By: NRC

Item Type: NCV NonCited Violation

**The team identified a non-cited violation of 10 CFR 50, Appendix B, Criterion XVI, “Corrective Action,” because Exelon’s actions to correct a Residual Heat Removal (RHR) system procedure deficiency, i**

The team identified a non-cited violation of 10 CFR 50, Appendix B, Criterion XVI, “Corrective Action,” for the failure to implement effective corrective actions to correct a residual heat removal (RHR) system procedure deficiency. Specifically, a procedure change, implemented following a March 2003 high pressure condition, was ineffective in eliminating the potential for a high pressure condition (water hammer) in the RHR system, when placing the system inservice for alternate decay heat removal in May 2006. The licensee entered this deficiency into their corrective action program for resolution.

This finding is greater than minor because if left uncorrected, it would become a more significant safety concern. The finding was determined to be of very low safety significance in accordance with the shutdown SDP, because it did not increase the likelihood of a loss of reactor coolant system (RCS) inventory, it did not result in an inadvertent change in RCS temperature due to a loss of RHR, it did not result in an inadvertent RCS pressurization, and it did not degrade the ability to recover decay heat removal capability if lost.

Inspection Report# : [2006006\(pdf\)](#)

---

### Barrier Integrity

**Significance:**  Jun 27, 2006

Identified By: NRC

Item Type: NCV NonCited Violation

**Inadequate Annual Operating Test Administered at Limerick**

The inspectors identified a Green non-cited violation (NCV) of 10CFR55.59 (a)(2)(ii) for an inadequate annual operating test that was administered at Limerick. Exelon procedures and commitments made by the licensee in 1991 require questions on job performance measures (JPMs) to explore the differences, if any, in task performance between Limerick and Peach Bottom. At least three of the five JPMs had significant differences in the way the task is performed at Limerick versus the same task at Peach Bottom. These three JPMs should have had questions to explore these differences, but did not. Exelon has entered this issue into their corrective action program for resolution.

The inspectors determined that the inadequate annual operating test administered at Limerick was more than minor because it was associated with the human performance attribute and affected the barrier integrity cornerstone objective to provide reasonable assurance that physical design barriers (fuel cladding, reactor coolant system, and containment) protect the public from radio nuclide releases caused by accidents or events. The finding is of very low safety significance (Green) because the inadequate annual operating test did not have an adverse impact on operator actions such that safety related equipment was made inoperable during normal operations or in response to a plant transient.

Inspection Report# : [2006003\(pdf\)](#)

---

## Emergency Preparedness

**Significance:**  Nov 15, 2005

Identified By: NRC

Item Type: NCV NonCited Violation

### Emergency Response Organization Exercise Performance Issue

The inspectors identified that the Exelon exercise evaluators failed to identify an ERO exercise performance issue that had the apparent effect of unnecessarily prolonging a simulated radiological release to the environment. Specifically, the exercise scenario presented conditions of fuel damage and the failure of one MSIV to close. Operators inappropriately opted to de-pressurize the reactor using the main condenser bypass valves rather than the SRVs. This created a pathway that allowed radiation from the failed fuel to be released to the environment.

Inspection Report# : [2005009\(pdf\)](#)

---

## Occupational Radiation Safety

---

## Public Radiation Safety

---

## Physical Protection

[Physical Protection](#) information not publicly available.

---

## Miscellaneous

**Significance:** N/A Jun 23, 2006

Identified By: NRC

Item Type: FIN Finding

### Identification and Resolution of Problems

The team identified that Exelon was effectively implementing the corrective action program at the Limerick Generating Station. Exelon staff was routinely effective at identifying discrepant conditions at an appropriate threshold and entering them into the corrective action program. Identified issues were typically prioritized appropriately and were properly evaluated commensurate with the potential safety significance. The evaluations of issues identified the causes of the problem, the extent-of-condition, and provided for corrective actions appropriate to address the causes. Corrective actions were routinely implemented in a timely manner. The majority of the corrective actions reviewed were fully effective. Audits and self-assessments identified adverse conditions and negative trends, and were generally self-critical and consistent with the team's findings. Operating experience usage was also found to be effective. The team identified a few minor examples where the problem identification and corrective action aspects of the corrective action program were not fully effective. The team also identified one greater than minor example where corrective actions were ineffective regarding a residual heat exchanger procedure revision. Exelon took prompt actions to address the issues identified by the team.

Inspection Report# : [2006006\(pdf\)](#)

Last modified : December 21, 2006