

## Beaver Valley 2

# 4Q/2012 Plant Inspection Findings

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### Initiating Events

**Significance:**  Dec 04, 2012

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

#### **FAILURE TO USE A PROCEDURE TO OPERATE A CVCS VALVE**

A self revealing, Green NCV of Technical Specification 5.4.1 “Procedures,” was identified for FENOC’s failure to use a procedure when operating chemical volume and control system (CVCS) valve 2CHS-FCV122 during troubleshooting, as required by the RG 1.33 “Quality Assurance Program Requirements”. Specifically, when an operator discovered that the valve positioner main feedback arm was sheered, the operator inadvertently manipulated the valve without a procedure.

The inspectors determined that failing to use a procedure when operating 2CHS-FCV122 during troubleshooting was a performance deficiency within FENOC’s ability to foresee and correct which contributed to over-pressurizing the RCS during solid plant operations. This finding is more than minor because it is associated with the human performance attribute of the initiating events cornerstone and adversely impacted the cornerstone objective to limit the likelihood of events that upset plant stability and challenge critical safety functions during shutdown. Specifically, the operator’s failure to use a procedure when operating 2CHS-FCV122 during troubleshooting lead to over-pressurization of the reactor coolant system. The inspectors evaluated the finding using “PWR Refueling Operation: RCS level > 23’ or PWR Shutdown Operation with Time to Boil > 2 hours and Inventory in the Pressurizer” Checklist 4 of Attachment 1 to Appendix G of IMC 0609. Because no loss of control occurred and no checklist attributes were adversely impacted, a Phase 2 quantitative assessment was not required. Therefore, the inspectors determined the finding to be of very low safety significance.

This finding has a cross-cutting aspect in the area of Human Performance, Work Practices, because FENOC personnel failed to use human error prevention techniques during troubleshooting of 2CHS-FCV122, and proceeded in the face of uncertainty after identifying the broken positioned feedback arm [H.4(a)].

Inspection Report# : [2012005](#) (*pdf*)

**Significance:**  Dec 04, 2012

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

#### **FAILURE TO IDENTIFY AND CORRECT A CONDITION ADVERSE TO QUALITY**

A self revealing, Green NCV was indentified for FENOC violating 10 CFR 50 Appendix B, Criterion XVI “Corrective Action,” for failure to identify and correct a condition adverse to quality on the Controller Driver printed circuit board (NCD board) for the controller for 2CHS-FCV160. Specifically, FENOC failed to identify that a NCD board was installed on the controller for 2CHS-FCV160 that was potentially impacted by defects identified in Westinghouse Technical Bulletin TB-08-06 and take corrective actions.

The inspectors determined that failing to identify and correct a condition adverse to quality on the NCD board for the controller for 2CHS-FCV160 was a performance deficiency within FENOC’s ability to foresee and correct which contributed to over-pressurization of the RCS during solid plant operations. The finding is more than minor because it is associated with the equipment performance attribute of the initiating events cornerstone and adversely impacted the cornerstone objective to limit the likelihood of events that upset plant stability and challenge critical safety functions during shutdown. Specifically, the failure to ensure the availability and reliability of 2CHS-FCV160 lead to over-pressurization of the reactor coolant system. The inspectors evaluated the finding using “PWR Refueling Operation: RCS level > 23’ or PWR Shutdown Operation with Time to Boil > 2 hours and Inventory in the Pressurizer” Checklist 4 of Attachment 1 to Appendix G of IMC 0609. Because no loss of control occurred and no checklist attributes were adversely impacted, a Phase 2 quantitative assessment was not required. Therefore, the inspectors determined the finding to be of very low safety significance.

There is no cross-cutting aspect associated with this finding because the performance deficiency is not reflective of FENOC's current performance.

Inspection Report# : [2012005](#) (*pdf*)

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## Mitigating Systems

**Significance:**  Aug 01, 2012

Identified By: Self-Revealing

Item Type: NCV NonCited Violation

### **INEFFECTIVE CORRECTIVE ACTION RESULTS IN OPERABLE COMPONENT COOLING WATER HEAT EXCHANGER**

A self-revealing Green NCV of Title 10 of the Code of Federal Regulations (10CFR) Part 50, Appendix B, Criterion XVI, "Corrective Action," was identified in that FENOC failed to prevent further degradation of the 'A' component cooling water heat exchanger, which was a significant condition adverse to quality. Inspectors determined that the unhindered rate of heat exchanger tube corrosion was a performance deficiency that was within FENOC's ability to foresee and correct. FENOC entered this issue into their corrective action program for further resolution as condition report (CR) 2012-13945.

This finding is more than minor because it affects the Mitigating Systems cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. The inspectors determined this finding was not a design qualification deficiency resulting in a loss of functionality or operability, did not represent an actual loss of safety function of a system or train of equipment, was not potentially risk-significant due to a seismic, fire, flooding, or severe weather initiating event, did not affect reactivity control systems, and did not involve the fire brigade. Therefore, inspectors determined the finding to be of very low safety significance.

This finding has a cross-cutting aspect in the area of Human Performance, Resources, in that FENOC failed to ensure adequate design margin of the 'A' component cooling water heat exchanger was maintained, and to correct the long-standing issue of leakage past the 'A' component cooling water heat exchanger isolation valves [H.2.(a)].

Inspection Report# : [2012004](#) (*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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## Security

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page. Therefore, the [cover letters](#) to security inspection reports may be viewed.

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## Miscellaneous

Last modified : February 28, 2013