

# Watts Bar 1

## 1Q/2006 Plant Inspection Findings

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### Initiating Events

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### Mitigating Systems

**Significance:**  Dec 31, 2005

Identified By: NRC

Item Type: NCV NonCited Violation

#### **Failure to take adequate corrective action to correct TDAFW jet plug leaks.**

Green. The inspectors identified a non-cited violation (NCV) for the failure to comply with 10 CFR 50 Appendix B, Criterion XVI, Corrective Action, in that turbine-driven auxiliary feedwater (TDAFW) turbine casing jet plug leaks identified on June 3, 2004, were not corrected which resulted in the TDAFW pump being declared inoperable on May 17, 2005, while performing steam leak repairs. This finding affected the Problem Identification and Resolution Cross-Cutting Area.

This finding was considered more than minor because it is associated with the equipment performance attribute of the Mitigating Systems Cornerstone to ensure the availability of systems that respond to initiating events to prevent undesirable consequences (i.e., core damage). The failure to repair turbine jet plug steam leaks during the refueling outage resulted in unnecessary unavailability of the TDAFW pump during power operations. The finding was determined to be of very low safety significance because the motor-driven auxiliary feedwater (MDAFW) pumps were available and the TDAFW pump was out of service for less than its Technical Specification allowed outage time.

Inspection Report# : [2005005\(pdf\)](#)

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### Barrier Integrity

**Significance:**  Sep 30, 2005

Identified By: NRC

Item Type: NCV NonCited Violation

#### **Inadequate Procedures for Containment Closure**

The inspectors identified a violation of Technical Specification 5.7.1.1 for an inadequate procedure for containment closure. The licensee's procedure for containment closure during loss of shutdown cooling events could have resulted in not being able to restore containment availability. This was due to the use of a temporary foam seal, which was not rated for containment pressure, and due to the procedures allowing up to four hours to install blind flanges.

This finding is more than minor because it affected the configuration control attribute of the Barrier Integrity Cornerstone for the reactor containment. The temporary penetration seals relied upon for containment closure were not leak tight and would fail if the containment pressurized. This finding was of very low safety significance because the time duration with the reactor coolant system depressurized and vented with the vessel head on, one charging pump and two safety injection pumps was short, and all four diesel generators (DGs) were available, and the Unit 2 DGs can backfeed the Unit 1 shutdown boards. The finding was entered into the licensee corrective action program as problem evaluation report (PER) 79310. The cause of this finding (inadequate technical evaluations) impacts the human performance cross-cutting area.

Inspection Report# : [2005004\(pdf\)](#)

**Significance:** TBD Sep 15, 2005

Identified By: NRC

Item Type: AV Apparent Violation

#### **Failure to Implement and Maintain Shutdown Procedures which Resulted in Pressurizer PORV Actuations**

On February 22, 2005, licensee staff made inappropriate operational decisions during the transition to solid plant operations to return a charging control valve to service following a design change and before all post-maintenance testing (PMT) was complete. As a result of the erratic control provided by the valve, operators failed to adequately implement procedures for solid plant operations, as required by the Watts Bar Technical Specifications, which resulted in multiple actuations of the pressurizer PORVs in low temperature over pressure (LTOP) mode. This event challenged the reactor coolant system (RCS) integrity by pressurizer power-operated relief valve (PORV) actuations and challenged RCS inventory control by the loss of RCS coolant via the open PORVs.

Inspection Report# : [2005013\(pdf\)](#)

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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**

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

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## **Miscellaneous**

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