

Watts Bar Fire Protection Baseline Inspection Briefing - December 13, 2000

Report Number: 50-390,391/2000-08 **Inspection Dates:** December 4-8, 2000

Inspection Type: Triennial Fire Protection Baseline Inspection - (71111.05T dated 9/22/00)

Inspector(s): F. Jape, RII; N. Merriweather, RII; M. Thomas, RII (Lead Inspector); G. Wiseman, RII; F. Wyant, NRC Contractor, Sandia National Laboratory

Accompanying Personnel: S. Walker, RII-Maintenance Branch (Reactor Inspector - trainee)

Scope/Objectives: The team selected four risk significant Fire Areas to verify that the post-fire safe shutdown (SSD) capability and the fire protection features ensured that at least one post-fire SSD success path was maintained free of fire damage. Fire Areas were chosen based on the fire risk ranking in the licensee's IPEEE for fire. Areas chosen for review were:

[Fire Area 8]: Unit 1 Aux Bldg Common - Alternative shutdown from the MCR.

[Fire Area 17]: Unit 1 Aux Bldg Train A 6.9KV and 480V SWGR - Alternative shutdown from the MCR using Train B systems and components.

[Fire Area 31]: Unit 1 Aux Bldg Train B 6.9KV and 480V SWGR - Alternative shutdown from the MCR using Train A systems and components.

[Fire Area 48]: Control Building - MCR evacuation and alternative shutdown using the ACR.

RESULTS: No findings of significance were identified. Several minor findings were identified for which the licensee voluntarily initiated Problem Evaluation Reports (PERs).

Fire Protection of Safe Shutdown Capability (Fixed Fire Suppression System)

- Configuration discrepancy between the as-built plant and the drawings for the Control Building floor drain system. As-built plant was correct. PER WBN-00-016461-000

Operational Implementation of Alternative Shutdown Capability

- Abnormal Procedure AOI 30.2 not consistent with Fire Protection Report regarding timeliness of tripping RCPs for a Control Bldg fire. PER WBN-00-016440-000
- Documentation not adequate to show that licensee had demonstrated time requirements in the Fire Protection Report for certain manual operator actions could still be met for an Appendix R Fire in Fire Area 48, after the number of AUOs was reduced from 7 to 5.

Communications for Performance of Alternative Shutdown Capability

- Plant PA not clear during fire brigade drill. WO# 00-016467-000

Watts Bar Inspection Lessons Learned (Successes [+] and Challenges [-]):

- (+) Some pre-inspection material was provided by licensee on CD-Rom (MS Word)
- (-) Pre-inspection material was difficult to access on certain RII computers (WordPerfect)
- (-) Perform walkdown of all selected fire areas during pre-inspection site visit
- (-) Inadequate inspection prep time due to working on previous McGuire fire protection IR

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- (-) PI&R inspection material necessary for prep week was not sufficient
- (-) Scheduling team meetings during prep week to allow attendance by all team members
- (+) Observed successful licensee performance of a voluntary unannounced fire brigade drill
- (+) Simulator walkdown of transfer from MCR to ACR
- (-) Difficult to be Team Leader and be assigned one of the three primary inspection areas
- (+) Team completed inspection within allotted 1-week time period