



# U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

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## **NRC UPDATE**

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U.S. Nuclear Regulatory Commission

2009 Power Plant Simulator Conference  
Charleston, South Carolina  
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## Update on Simulator Scenario-Based-Testing (SBT)

- January 3, 2008, NRC letter to NEI (ML073460199)
  - NRC agrees in principle with the NEI / LOFG recommendations
- September 18, 2008 NEI letter to NRC (ML082770688)
  - NEI White Paper on SBT Methodology (ML082770691)
- December 30, 2008, NRC letter to NEI (ML083290481)
  - NRC Response to NEI White Paper on Simulator SBT Methodology

## Update on Other Simulator Related Initiatives

- ANS-3.5 Working Group Activities
  - Proposed revised ANSI/ANS-3.5-200X before ANS for action
- Draft Guide (DG) on RG 1.149
  - Once new standard is adopted by ANS, work will commence on DG



## 2008 Simulator Performance Findings & IP-71111.11 Inspections

- NCV- Failure to accurately model the simulator for RPV water level instrumentation
  - (ADAMS #ML080770308)

## State of Plant-referenced Simulators

- 72 plant-referenced simulators are in service in the USA.
- Overall, simulator fidelity is being maintained.
- 4,151 licensed operators receive simulator training.

## Importance of Staying on Top of Your Technical Game

- Plant-referenced simulator is a computer program and is not the actual reference plant.
- Software models are as good, or bad, as the math and engineering underpinning them.
- Simulator fidelity is all about technical details.



**Questions / Comments?**