

Presentation to the U.S. Nuclear Regulatory Commission

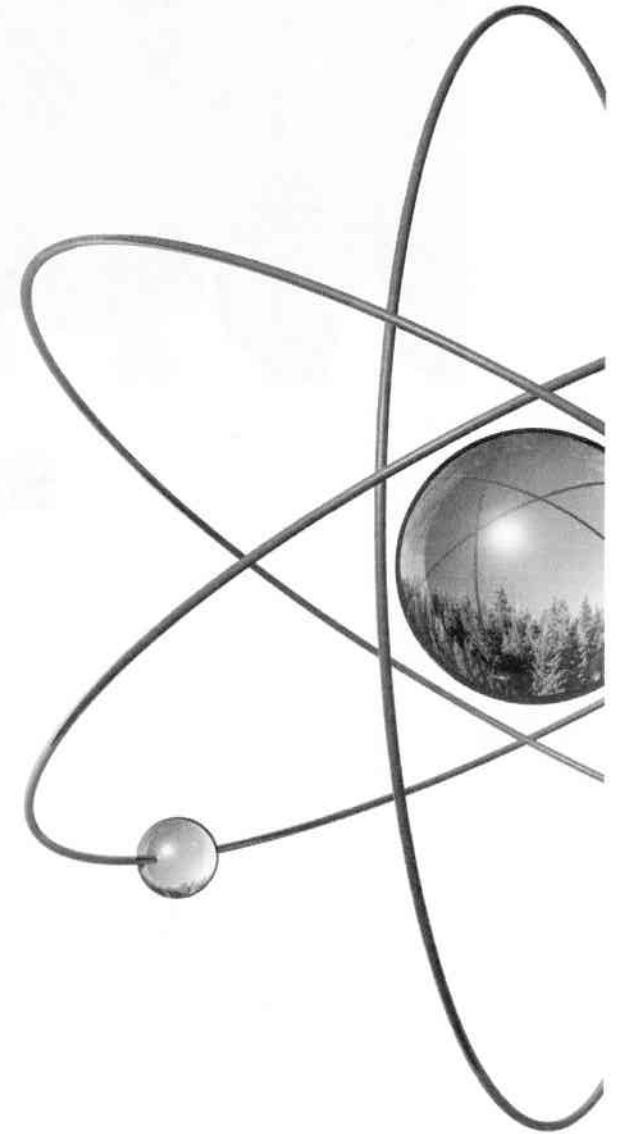
Global Nuclear Fuel Integrated Safety Analysis Project Review

April 17, 2013



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A Joint Venture of GE, Toshiba, & Hitachi



Agenda

ISA Review Project Status

Background

Action Plan Review

Verification Project

Results

Improvements & Benefits

Summary



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Background

November 2009

Based on inspections, NRC issued apparent violations

December 2009

GNF-A performed root cause for potential violations, concluded ISA re-analysis needed

January 2010

GNF-A assigned ISA program manager, developed action plan

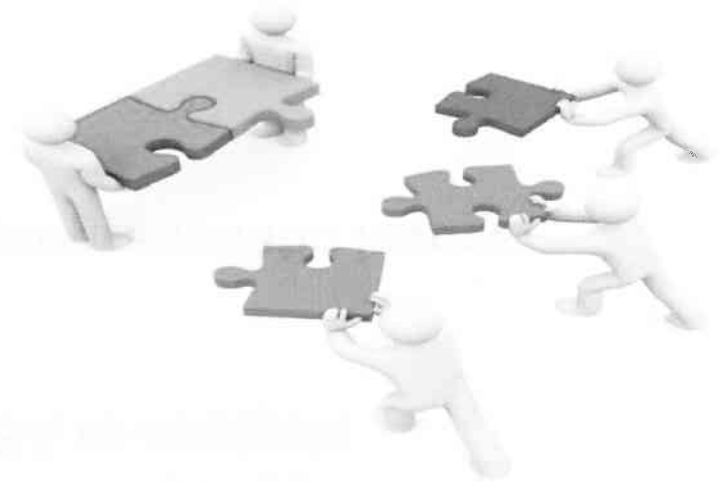
February - July 2010

ISA Review Team recruited, developed revised approach, reviewed plan with NRC staff, began ISA re-analysis

June 2010

NRC issued SLIII NOV for GNF-A ISA programmatic issues

ISA Action Plan



Three milestones

Conversion

Re-analysis complete
Implementation (mgt measures applied)

April 2011
July 2011

Fabrication

Re-analysis complete
Implementation (mgt measures applied)

August 2011
January 2012

Balance-of-Plant

Re-analysis complete
Implementation (mgt measures applied)

January 2013
March 2013



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Verification Project

ISA Review Team identified need to verify:

- Flow-down of controls & requirements hierarchy
- Supporting analyses assumptions
- Field verification of controls
- Application of management measures

Independent Verification Team

- During 2011 – Staffed & funded team
- Plan & schedule developed to coincide with ISA Review



GNF-A Commitment

Three year project

Reviewed & verified

~1000 criticality safety requirements

~8000 procedural requirements

~ 500 IROFS

**More than 30 employees, consultants, contractors
& managers participated**



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Results

Corrected original programmatic issues

Identified & corrected additional issues

Made 17 NRC event notifications during project

Original ISA: <200 IROFS

Revised ISA: ~500 IROFS

**Nearly all new IROFS were
existing controls**



Additional Improvements & Benefits

Significantly improved documentation of bases for assumptions & analyses

Significantly improved operational awareness of facility safety basis

Comprehensive verification of bases documents

Step change in overall training program

Comprehensive facility fire analysis



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Summary

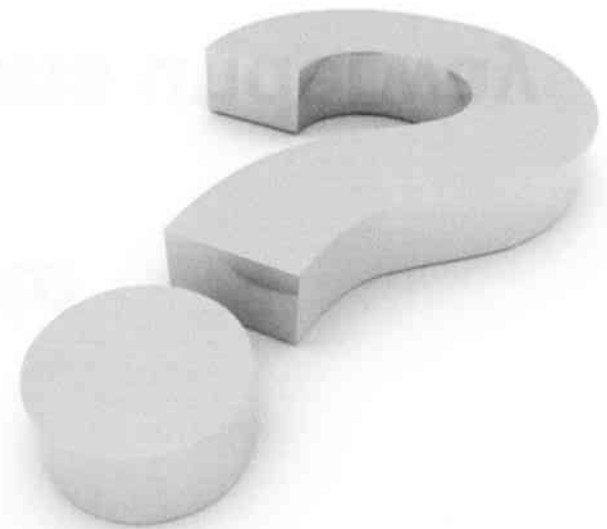
ISA Review Project is complete

Additional improvement actions underway

Looking forward to your feedback



Questions



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