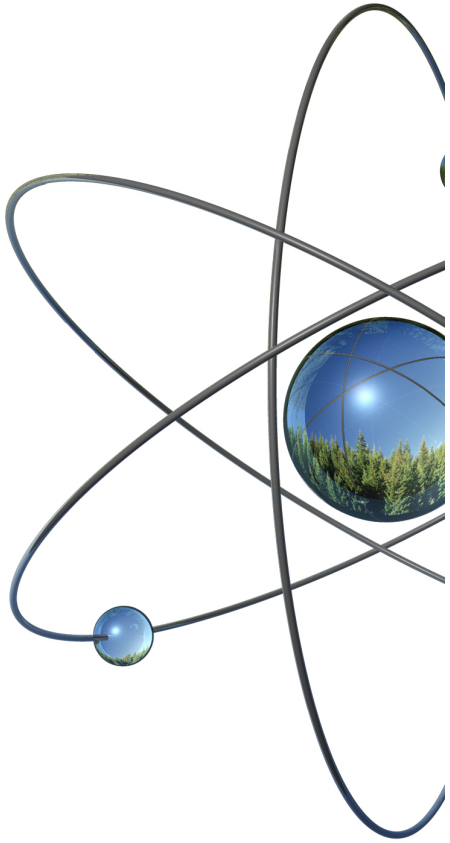
Presentation to the U.S. Nuclear Regulatory Commission

Global Nuclear Fuel ISA Project Review



November 2, 2010

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Agenda

- Introductions
- Opening Statement
- Purpose
- Notice of Violation Response
- Project Schedule & Status
- Project Results
- License Amendment
- Communication Plan

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Opening Statement

Nicole Holmes COO, GNF-A

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Purpose

To provide an update of progress & status of reviewing & revising the GNF-A Integrated Safety Analysis

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Notice of Violation Response

Key Elements

- Assigned full-time program manager
- Developed plan to address programmatic deficiencies
- Committed to methods of reporting results of ISA review
- Provided schedule & milestones to complete ISA review and implementation
- Committed to full compliance by March 2012

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Project Schedule & Status

Uranium Conversion	Jan 2011
Fuel Fabrication	May 2011
Balance of Plant	Nov 2011
Complete ISA & ISA Summary	Mar 2012

(Implementation 90 days following milestone completion)

On track to meet Jan 2011 milestone

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Uranium Conversion Milestone

Includes process areas:

- Cylinder Handling
- UF6 Vaporization
- UF6 Conversion
- HF Recovery
- DCP Powder, Powder Pack & Receipt
- DCP Miscellaneous

All PHAs in final draft, QRAs ~60% complete

Developing draft implementation plans

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Project Results

Identifying new accident sequences & IROFS…

- **Cylinder Handling**
  - Four (4) new accident sequences
  - Eight (8) existing controls to be re-designated IROFS
  - Originally ~40 accident sequences & 3 IROFS

- **UF6 Vaporization**
  - Two (2) new accident sequences
  - Nineteen (19) existing controls to be re-designated IROFS
  - Originally ~80 accident sequences & 5 IROFS

- **UF6 Conversion**
  - Four (4) new accident sequences (all H2 sequences)
  - Fifteen (15) existing controls to be re-designated IROFS
  - Originally ~90 accident sequences & 23 IROFS

Project Results

Correcting all credible criticality sequences to S=3

Limited assumptions

- Maximum Credible Enrichment: 5.0 wt% ^{235}U
- Maximum Credible UO2 Powder Density: 4.5 g/cc

No "Design Features"

- The MRA facility features required for safety are designated as administrative IROFS

Developing chemical & radiological calculations supporting consequences

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Results Summary

Generally, criticality & radiation safety sequences were adequately addressed.

Traditional safety hazards such as chemical & fire hazards required more work.

License Amendment

SNM 1097 Chapter 3 "ISA Methodology"

- Submitted Aug 13th (SPM 10-031)
- Aligned methodology with NRC guidance
- Requested expedited review
- Reviewed in detail with NRC licensing staff
- *Implementation requires amendment approval*

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Communication Plan

Site visits

- Sample final draft PHA/QRA/ISA documents
- Interface with Leadership & Review Team

Milestone completions

- Report on controls re-designated IROFS
- Report on completion of implementation plans

Periodic management reviews

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Summary

On track to meet first milestone

Project is addressing & correcting the identified programmatic issues

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi

Questions?

Global Nuclear Fuel
A Joint Venture of GE, Toshiba, & Hitachi