

# Integrated Safety Analyses- Are We There Yet?



# Overview

- Welcome
- 10 Years of Progress
- Long Distance Journeys
- Part 70 Journey
- Destinations



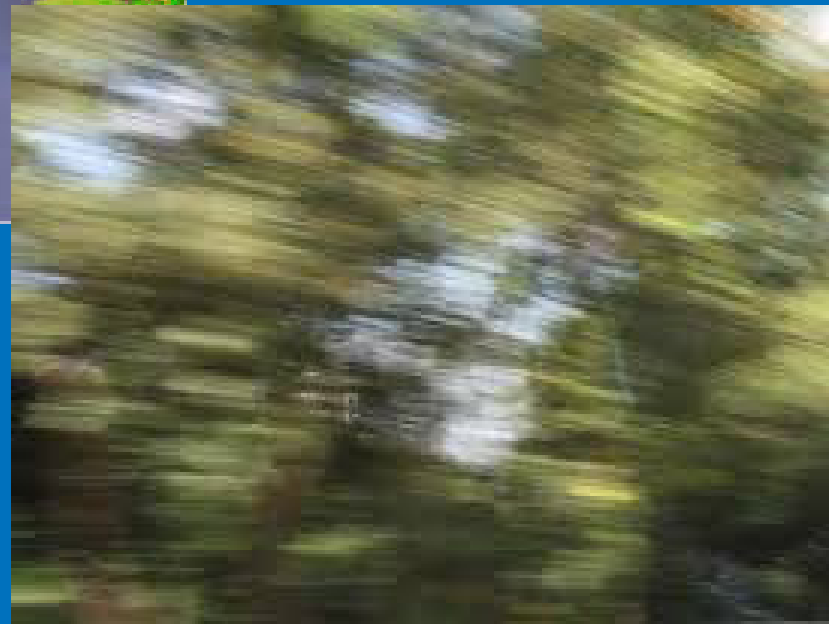
# Years of Progress



- 4 new enrichment facilities
- Mixed Oxide Fuel Fabrication Facility
- New fuel cycle processes
- Safety and security enhancements



# Long Distance Journeys

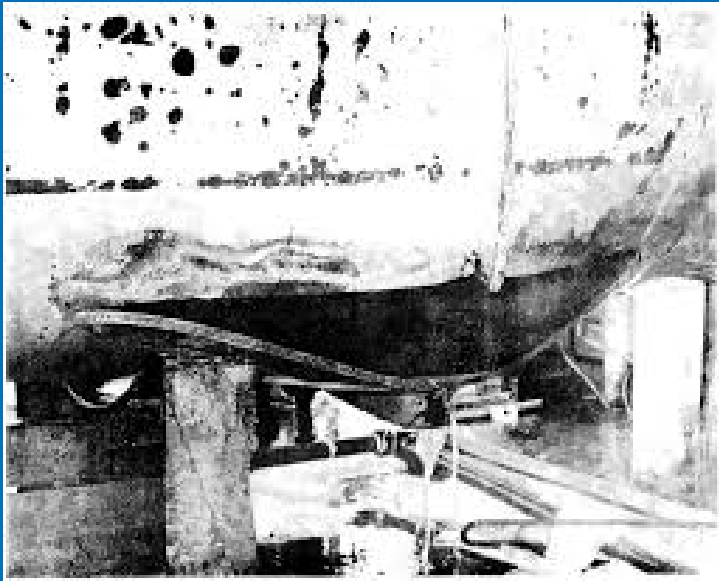


# “New” Part 70



- Approved by Commission in 2000
- The “New” Part 70 for fuel processing facilities
- More risk-informed, performance based
- Integrated Safety Analyses (ISAs) are key feature

# Origins of ISAs



- Sequoyah Fuels accident in 1986
- Loss of criticality controls in 1991
- Improved safety controls

# Building the Foundation

- Confirmed safety basis and margin
- Broadened reviews on chemical and fire safety
- Enhanced oversight program
- Enhanced staff qualifications
- Added Licensee Performance Reviews



# Developing Final Rule

- Established mutual understanding
- Prototype safety analyses
- ISA workshop
- Finalizing the Standard Review Plan
- Commission approval in 2000





# Implementing Part 70

- 2004 – ISA Summaries
- Used insights to guide oversight
- 2008 – Completed reviews



# UF<sub>6</sub> Processing



- Comparable hazards with UF<sub>6</sub> processing
- Used ISA results to enhance safety
- Used results to understand risk significance of controls

# Oversight Process Revisions

- Commenced revisions in 2008
- Used risk insights from ISAs
  - Importance ranking
  - Inspection planning
  - Enhancing enforcement
  - Improving oversight
- Next steps
  - Developing cornerstones
  - Developing a significance determination process
  - Establishing a regulatory action matrix



# Part 70 Implementation



- Focus on what matters – safety and security
- Cumulative Effects of Regulation
- Making progress
- Are we **there** yet?

# Destinations

- Not yet
- Making progress; a lot more can be achieved
- Concerns about safety and security benefits, excessive burden, and sequencing continue



# Destinations

- May not get “there”
- Practice continuous improvement
- Work with us to improve effectiveness and efficiency
- Ensure safety, security, and safeguards





# Discussion