

Watts Bar Nuclear Plant Unit 2

2012 Annual Assessment

April 16, 2013

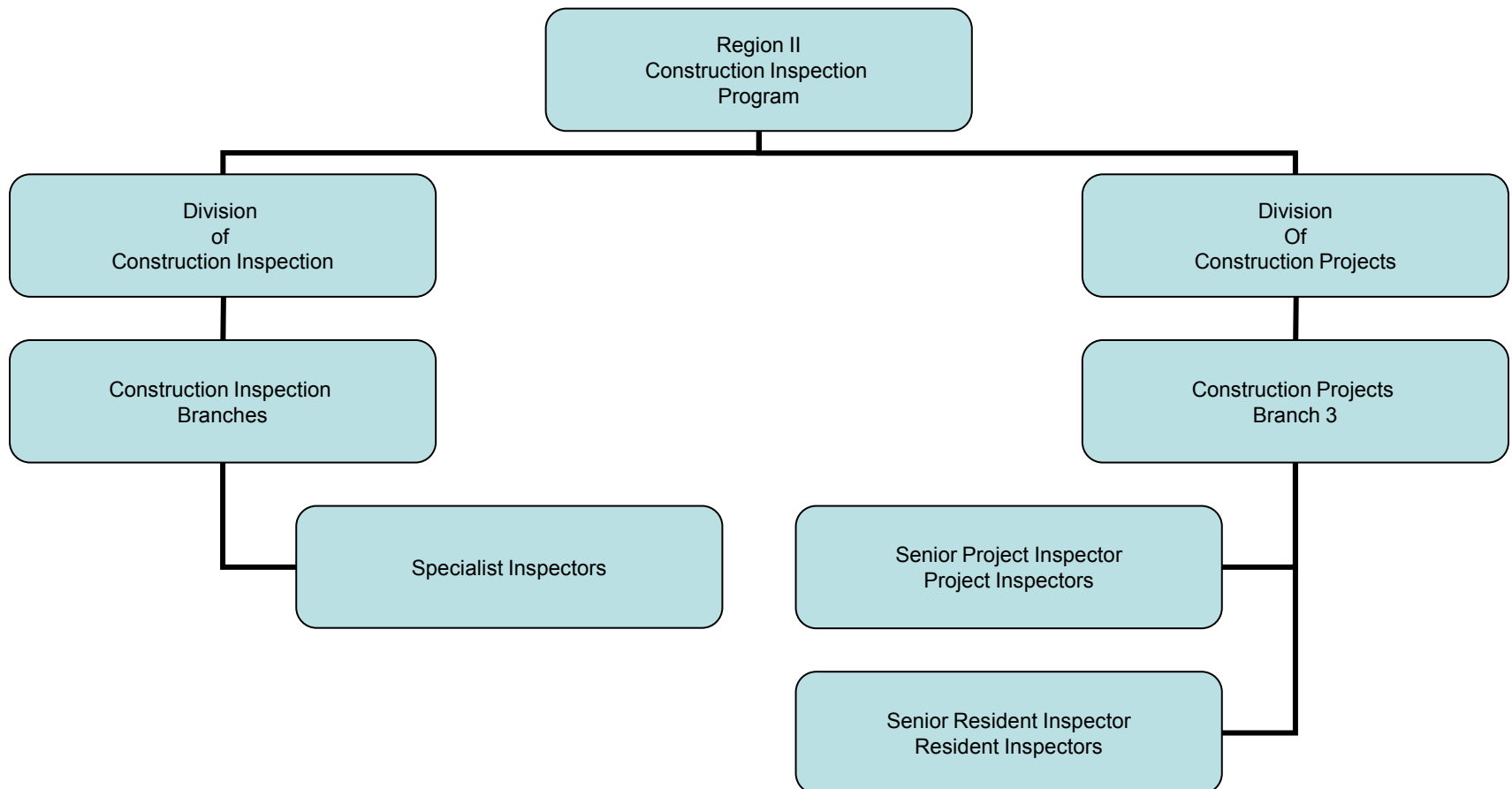
Purpose of Meeting

- Discuss the NRC's 2012 Annual Assessment of the Watts Bar 2 construction project.
- Provide an overview of the construction inspection program for Watts Bar 2.
- Introduce resident staff.
- Discuss the status of Watts Bar 2 inspections.
- Provide status of Watts Bar 2 license review
- Respond to questions and comments from the public.

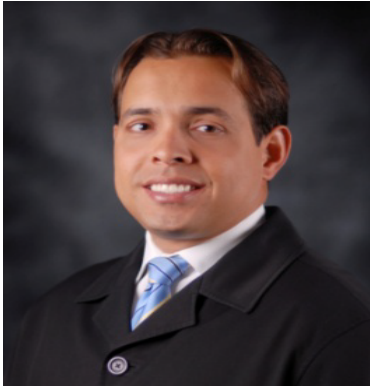
Background

- 1985; TVA suspended construction of Watts Bar Unit 2.
- 1990-1995; TVA concentrated on construction of Unit 1 and addressed quality issues on Unit 1.
- July 2000; TVA informs NRC that Unit 2 is in a deferred status in accordance with Commission Policy Statement
- August 3, 2007; TVA informed NRC of its plan to resume construction of Watts Bar Unit 2.
- July 7, 2008, the NRC issued an Order extending the Watts Bar Unit 2 construction permit (CP) completion date to March 31, 2013.
- TVA has submitted a request to extend the CP completion date to September 30, 2016 – Currently under staff review.

Construction Inspection Organization



Watts Bar Unit 2 Resident Inspectors



Tomy Nazario – Senior Resident Inspector

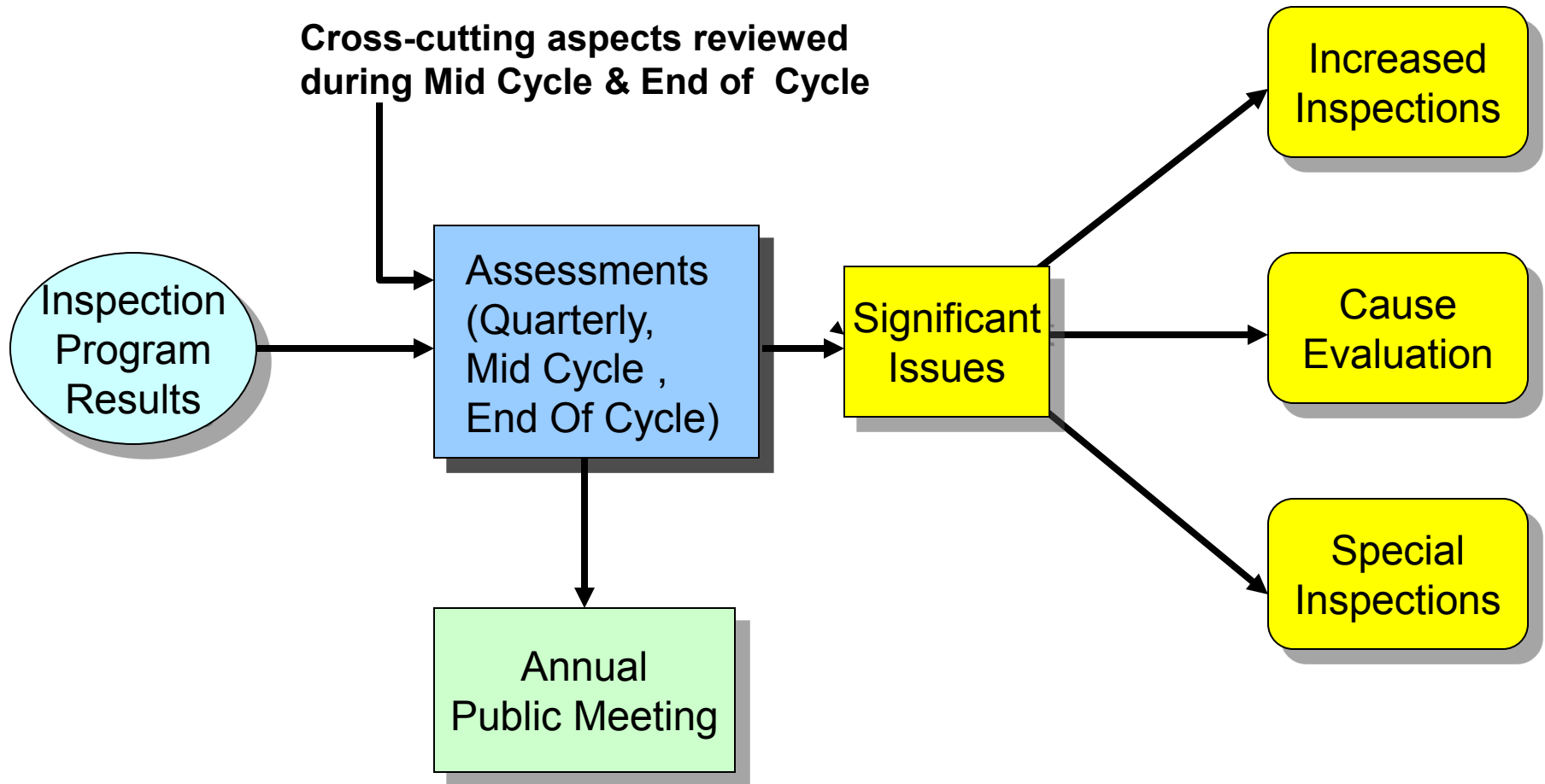


Russ Lewis - Resident Inspector



Eric Patterson – Resident Inspector

Assessment Process



Scope of Inspections in 2012

- Inspections Completed in 2012:
 - Six-week inspection periods that cover resident activities and weekly regional initiatives
 - Quality Assurance (QA) team inspection
 - Hanger Update (HAUUP) Corrective Action Program (CAP) team inspection
 - Problem Identification and Resolution team inspection
- In addition to three resident inspectors, 32 regional inspectors conducted inspections in 2012.

Scope of Inspections in 2012

- NRC expended 12,488 hours of inspection and related activities for Watts Bar 2 in 2012; decrease from 16,350 hours in 2011.
- Key areas of 2012 inspections:
 - Quality assurance program;
 - Corrective action program;
 - Engineering activities;
 - Training and qualification of key personnel;
 - Procurement (included Commercial Grade Dedication);
 - Actual construction activities; and
 - Refurbishment activities.

Inspection Program Results

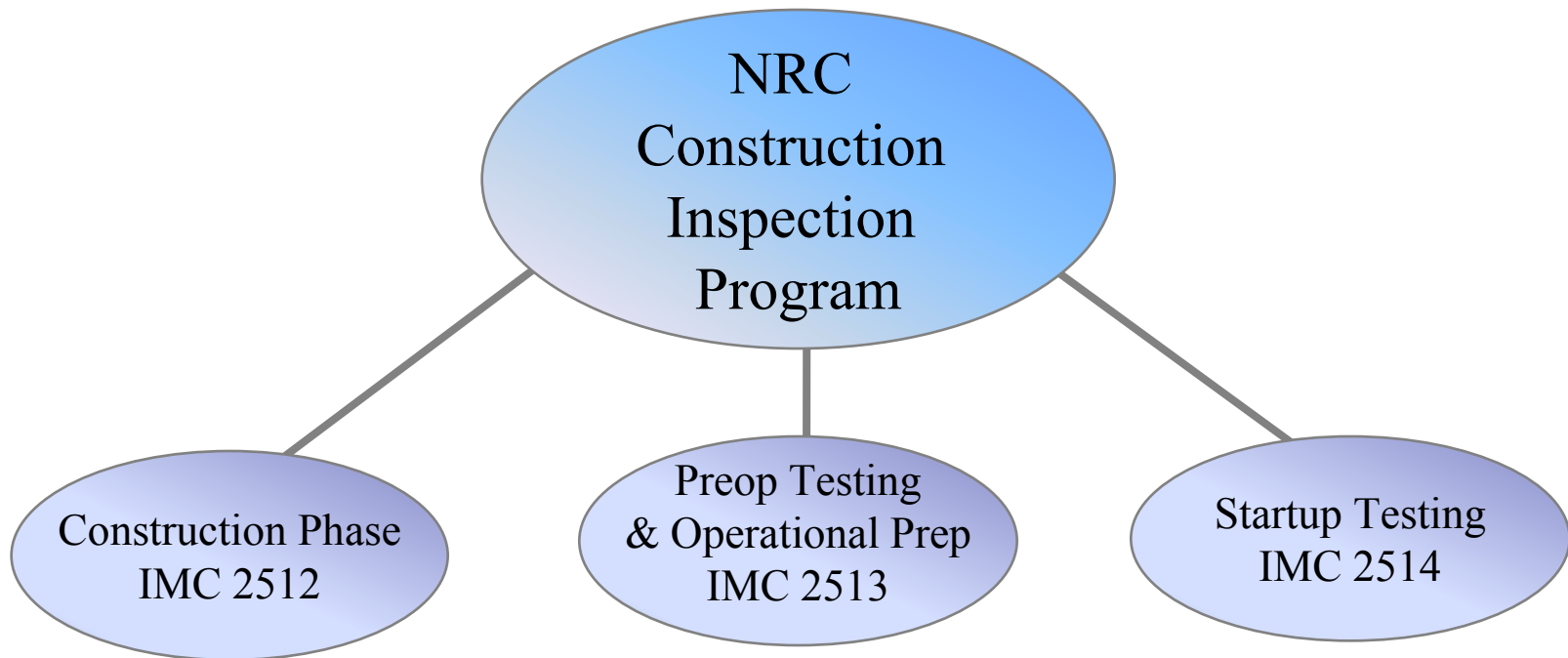
- Overall assessment results:
 - TVA's program and procedures were adequate to support ongoing construction activities
 - TVA was constructing the facility at an acceptable level of quality
- Eleven (11) severity level IV violations identified by NRC inspections. No escalated enforcement or civil penalties. No substantive cross-cutting issues.

Inspection Program Results

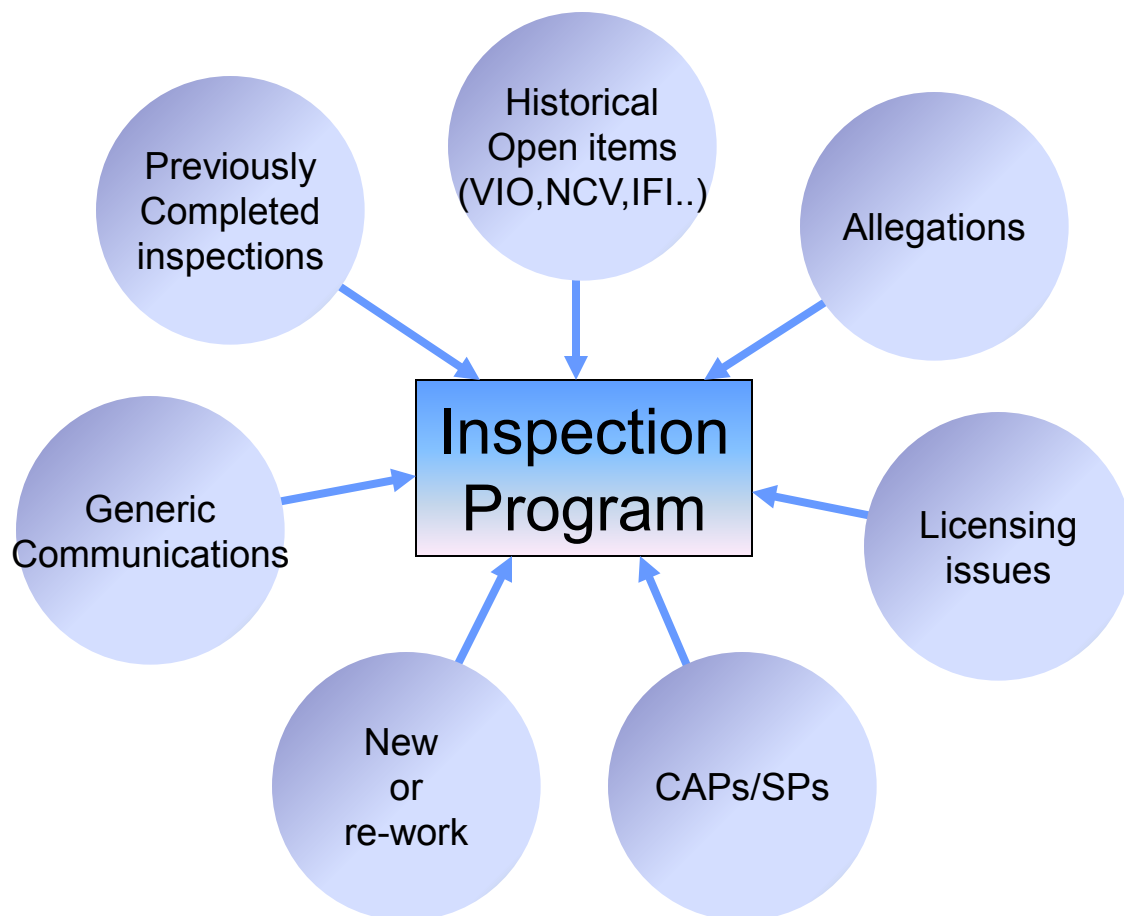
- Adjusted Region II and Resident Inspector resources to match TVA's revised schedule for fuel load (June 2015)
- Incorporated follow-up inspection efforts for Alternate Dispute Resolution (ADR) results (2010 falsification)
- Except as noted, no changes to Inspection Program due to 2012 inspection results
- Continue with planned inspections for Watts Bar 2

Construction Inspection Program

- IMC 2517, Watts Bar Unit 2 Construction Inspection Program, supplements traditional inspection program



Inspection Program Elements



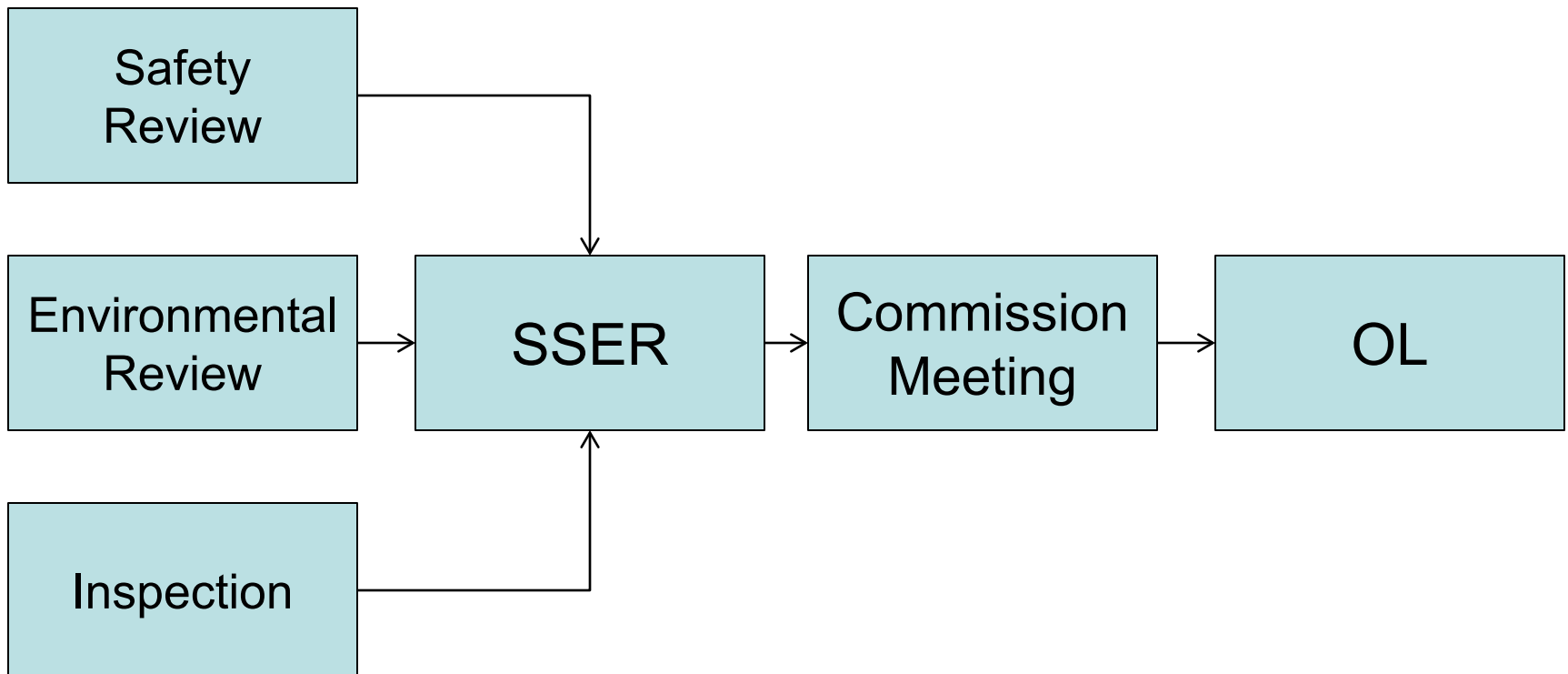
Status of Inspection Program

- Over 500 construction inspection items in the Inspection Planning and Scheduling (IP&S) database
- Completed inspections for 270 IP&S items
- Many other IP&S items inspected, but additional effort required to close the item
- Many of the 500 IP&S items are historical that TVA previously addressed; Close-out inspection involves verifying proper resolution

Upcoming Inspection Activities

- Continue to inspect activities specified in IMC 2512 and “Refurbishment” activities
- Inspect “Other Areas”
 - CAPs and SPs
 - Generic Communication items
 - Open Items
- Inspect pre-operational testing of systems

Status of License Review



Status of License Review (cont'd)

- **Safety Reviews – 96% complete**
 - Results documented in SSERs 21 through 25
 - SSER 26 scheduled for May 2013
 - Fire Protection and closure of open items
- **Environmental Review**
 - Draft published for comment in November 2011
 - Staff currently addressing comments
 - Final scheduled to be published in May 2013

QUESTIONS?