

Simulated ITAAC Closure and Verification Demonstration

kickoff meeting

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Mahmoud Jardaneh, PE
Construction ITAAC Team
NRO/DCIP/CTSB

Background Information

- The performance of ITAAC by licensees, and the inspection and closure verification by NRC are vital processes leading to the Commission's finding to start plant operations (i.e., load fuel)
- This demonstration will be facilitated by Mahmoud Jardaneh (MJ); NRC Project Engineer
- NRC project Engineer must be kept informed of any potential issues, problems, or deviation in scope or direction from the established plan



Purpose

- Gain insights into the readiness of both the industry ITAAC closure process and NRC ITAAC closure verification process
- Test aspects of the construction assessment and enforcement programs
- Evaluate the surge in ITAAC closure submittals during the last year of construction for any insights



Participants in the Demonstration

- DOE: Select the participating licensees and vendors
- NRC: Lead the closure and verification demonstration, including coordination with licensees and vendors
- Westinghouse and Southern Nuclear: Perform the ITAAC, prepare closure packages, and evaluate ITAAC submittals during the last year of construction



Project Scope

The project will test and evaluate many ITAAC closure and verification attributes, including:

- ITAAC closure packages
- ITAAC closure letters
- Inspection
- Enforcement
- HQ technical staff review
- Communications between HQ staff, Regional Staff, Licensees, and vendors



ITAAC Selected for the Exercise

Five ITAAC from AP 1000, Revision 17:

- (1) ITAAC 2.1.02.07a.i – The Reactor Coolant System (RCS) Harsh Environment Type Test
- (2) ITAAC 2.2.01.04a.ii – Containment System Impact Testing
- (3) ITAAC 2.2.02.01 – Passive Containment Cooling Functional Arrangement
- (4) ITAAC 2.2.03.08c.i – Injection Line Flow Resistance Testing and Analysis
- (5) ITAAC 2.6.03.08 – DC System Fault Current Analysis

Project Plan

The demonstration is divided into 4 stages:

- (1) ITAAC Performance
- (2) ITAAC Closure
- (3) Exercise Workshop
- (4) Lessons Learned



Stage 1: ITAAC Performance

Expectations:

- Licensee:
 - Simulate ITAAC performance, including additional work based on inspection findings
 - Develop Documentation to support ITAAC closure
 - Prepare ITAAC closure letters (ICLs) & submit to NRC
- NRC Region II:
 - Prepare inspection plans
 - Simulate inspection using inspection documents
 - Interact with NRO technical staff as needed
 - Document simulated inspection results in CIPIMS
 - Issue inspection reports

Stage 2: ITAAC Closure

Expectations:

- NRC HQ staff:
 - Exercise ITAAC closure verification process (ICVP) per the draft Office Instruction
 - NRO technical staff will evaluate complex technical information
 - Simulate issuance of FRN
- Other Participants
 - Provide support as needed



Stage 3: Exercise Workshop

Expectations:

- All Participants:
 - Present results of analysis on the numbers and families of system-specific ITAAC expected during the last year of construction
 - Discuss observations on the exercise
 - Identify issues with the processes and provide solutions
 - Discuss issues associated with the expected surge in ITAAC submittals and provide insights on how the workload will be handled



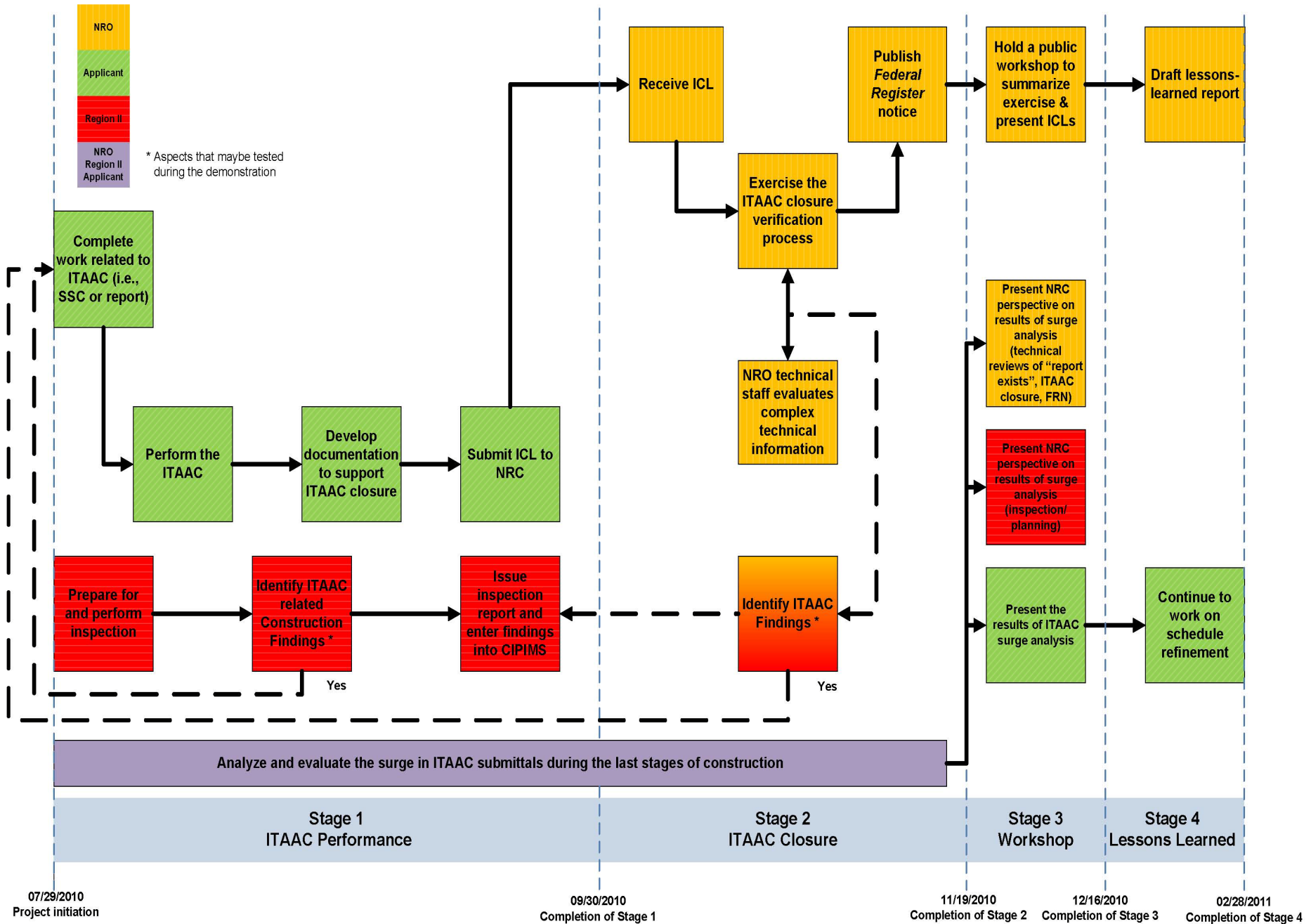
Stage 4: Lessons Learned

Expectations:

- NRC HQ staff:
 - Gather lessons learned from participants
 - Draft and issue lessons learned report



Simulated ITAAC Closure and Verification Demonstration Flowchart



Milestones

Project Development Meeting	Complete
Abstract Development	Complete
NRO Management Endorsement	Complete
DOE/Westinghouse/SNC Endorsement	Complete
Public Meeting/Project Initiation	July 29, 2010
Stage 1 Complete (ITAAC Performance)	September 30, 2010
Stage 2 Complete (ITAAC Closure)	November 19, 2010
Stage 3 Complete (Exercise Workshop)	December 16, 2010
Stage 4 Complete (Lessons Learned)	February 28, 2011



Questions and Discussion

