

Vendor Inspections and ITAAC

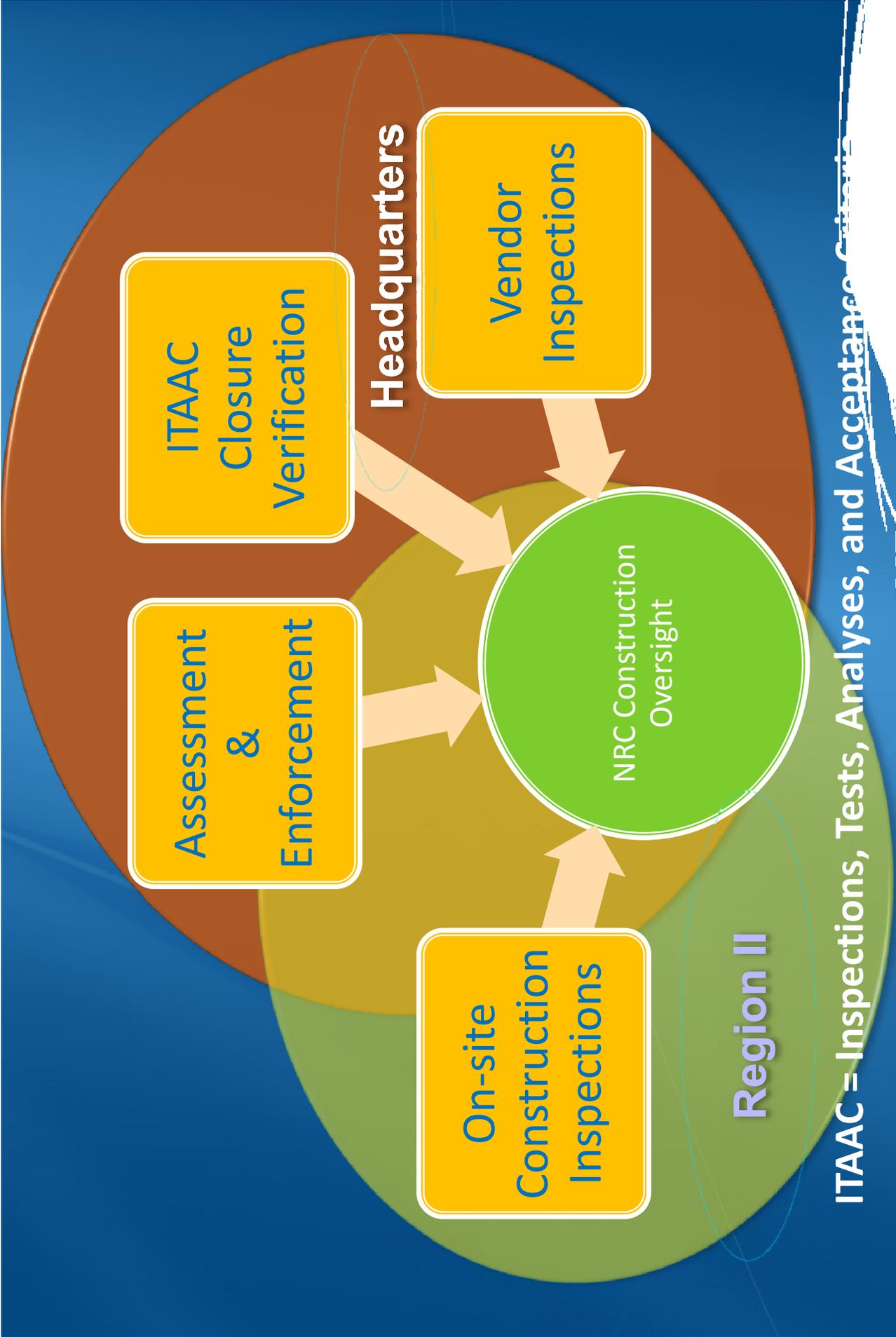
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Overview

- Roles and Responsibilities
- Construction Inspection Program
- Vendor Inspection Program Plan
- Construction Information Flow
- ITAAC Closure



ITAAC = Inspections, Tests, Analyses, and Acceptance Criteria

ITAAC Closure Verification

- Atomic Energy Act requirement - (prior to operation ensure the prescribed ITA are performed and the acceptance criteria are met)
- Consists of inspection and ITAAC closure notification (ICN) reviews
(Region II; host region; Headquarters Tech Staff)
- The process is informed by the inspection and oversight processes

ICN Reviews

- Performed by CITB utilizing VOICES
 - (may seek assistance from Tech Staff & Region II)
- ITAAC Findings captured in CIPIMS identified in ICNs and resolved
- ICN review is not an “inspection” or in-depth independent verification
 - (looking for adequate basis which demonstrates the ITA was performed and the acceptance criteria met)
 - (the review could lead to inspection follow-up)

Construction Inspection Program

- Verify Vendor's implementation of design translation, Quality Assurance, corrective actions and reporting Programs
- ITAAC observations that can be used for future ITAAC closure

Vendor
Inspections

IMC
2507

- Verify construction processes and operational readiness
- Construction Program Inspections
- Operational Program Inspections

Construction
and
Operational
Program
Inspections

IMC
2504

- Verify plant is built in accordance with the license
- The inspection program samples ITAAC of interest

ITAAC
Inspections

IMC
2503

Construction Program Inspections (IMC 2507)

The vendor inspections are performed as part of the construction inspection program to inspect vendors supplying SR materials, equipment and services:

- Vendor Quality Assurance (QA) Programs (10CFR50, App B)
- Reporting of Defects (10 CFR 21, 10 CFR 50.55e)
- Commercial Grade Dedication (10 CFR 21)
- Type testing for ITAAC related activities
- Environmental Qualification Testing
- Counterfeit, Fraudulent, or Suspect Items

Vendor Inspection Program (VIP)

- The VIP Plan establishes goals, priorities, performance metrics and resource management strategies for vendor activities
 - Inspection Announcement letters \geq 30 Days
 - Inspection Reports \leq 45 Days
- Inspection Reports follow IMC 0617
- VIP Plan, Announcement Letters, and Inspection Reports are publicly available
 - <http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-insp.html>

Construction Information Flow

Headquarters

LAR/PAR, ITAAC
Closure Letter,
RAI Responses

Licensees/
Applicants

DNURL
Licensing
Project
Manager

FRN

RAI, NRC
Correspondence

ITAAC Closure Letters

PAR Assessment

DCIP ITAAC
Operations
Engineer

DCIP
Construction
Operations
Engineer

DCIP
Vendor
Inspectors

CIPIIMS

ITAAC
Closure
Technical
Assistance

Technical
Staff

TAR/
Scheduled
Inspection
Participation

Region II

DCP
Planning and
Scheduling

HQ Inspection
Assistance/
TAR

DCP
Resident
Inspectors

TAR

DCI
Inspection
Teams

HQ Inspection
Assistance/
TAR

Technical Assistance Request (TAR)

- Documents the formal interface between HQ and Region II on construction inspection activities – not licensing issues
- Multi-purpose form:
 - Resolution of technical issues that need documented resolution to support an inspection activity – maintained in database for future reference
 - Inspection support
 - ITAAC closure verification review support (site verifications)
- COE coordinates TAR processing, keeping the project manager informed

Nonconformance Example

Wyle Laboratories, Huntsville, AL

- NON 99900905/2012-201-01 (Example 2)
- Lacking justification for the performance of partial valve strokes during valve flow testing

ITAAC	Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
2.2.02.11a.i	The motor-operated and check valves identified in Table 2.2.2-1 perform an active safety-related function to change position as indicated in the table.	Tests or type tests of motor-operated valves will be performed to demonstrate the capability of each valve to operate under design conditions.	A test report exists and concludes that each motor-operated valve changes position as indicated in Table 2.2.2-1 under design conditions.

Observation Example

SPX Copes-Vulcan, McKean, PA

- flow area of the valve opening may change slightly after the valve has been opened

ITAAC	Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
2.1.02.08d.iii	The RCS provides automatic depressurization during design basis events.	Inspections of each fourth-stage ADS valve will be conducted to determine the flow area through each valve.	The flow area through each fourth-stage ADS valve is > 67 in ² .

Questions?