



Region II & NRO Vendor Inspection

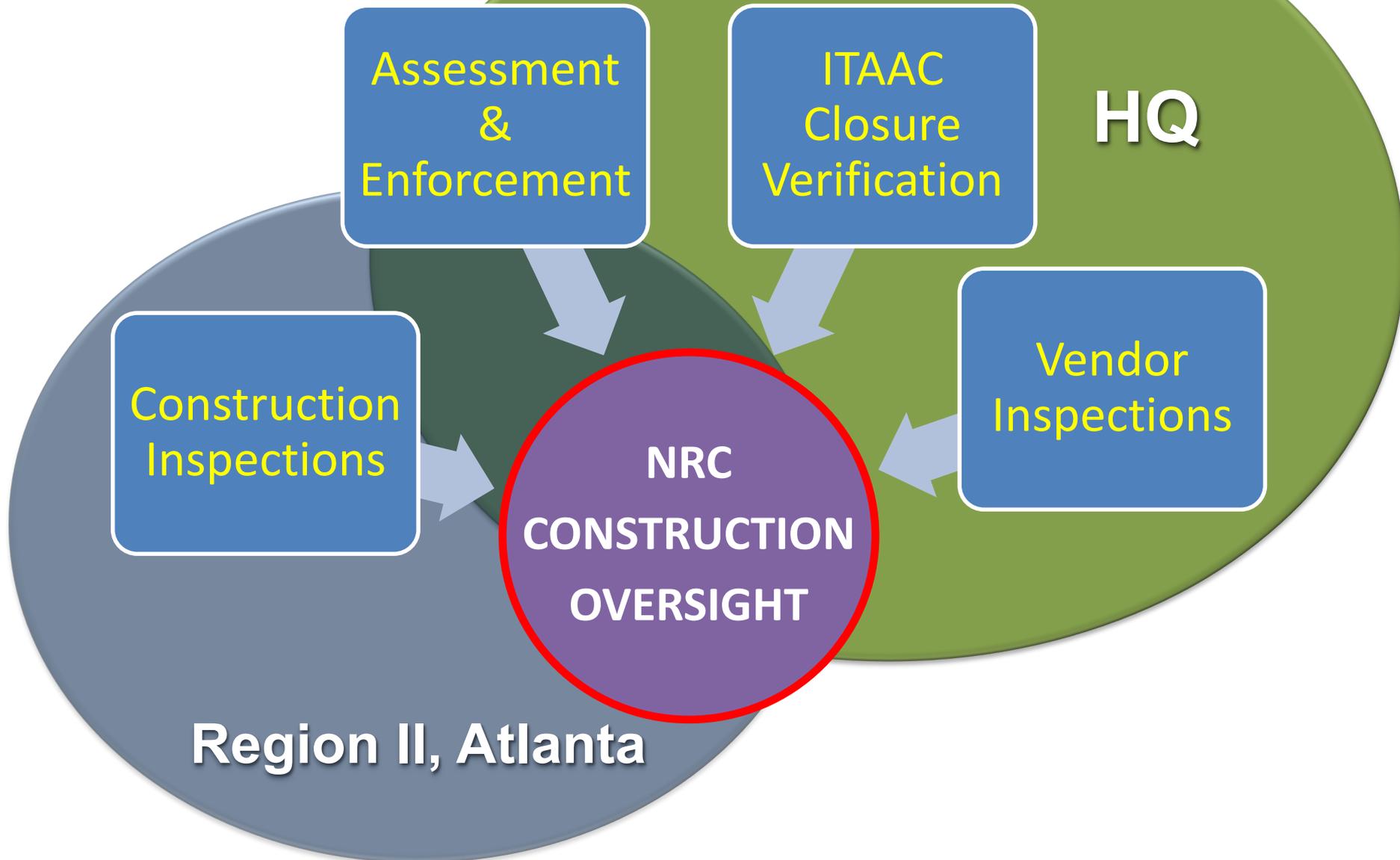
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Coordination of ITAAC Inspections

Construction Inspection Program Meeting
January 19, 2017

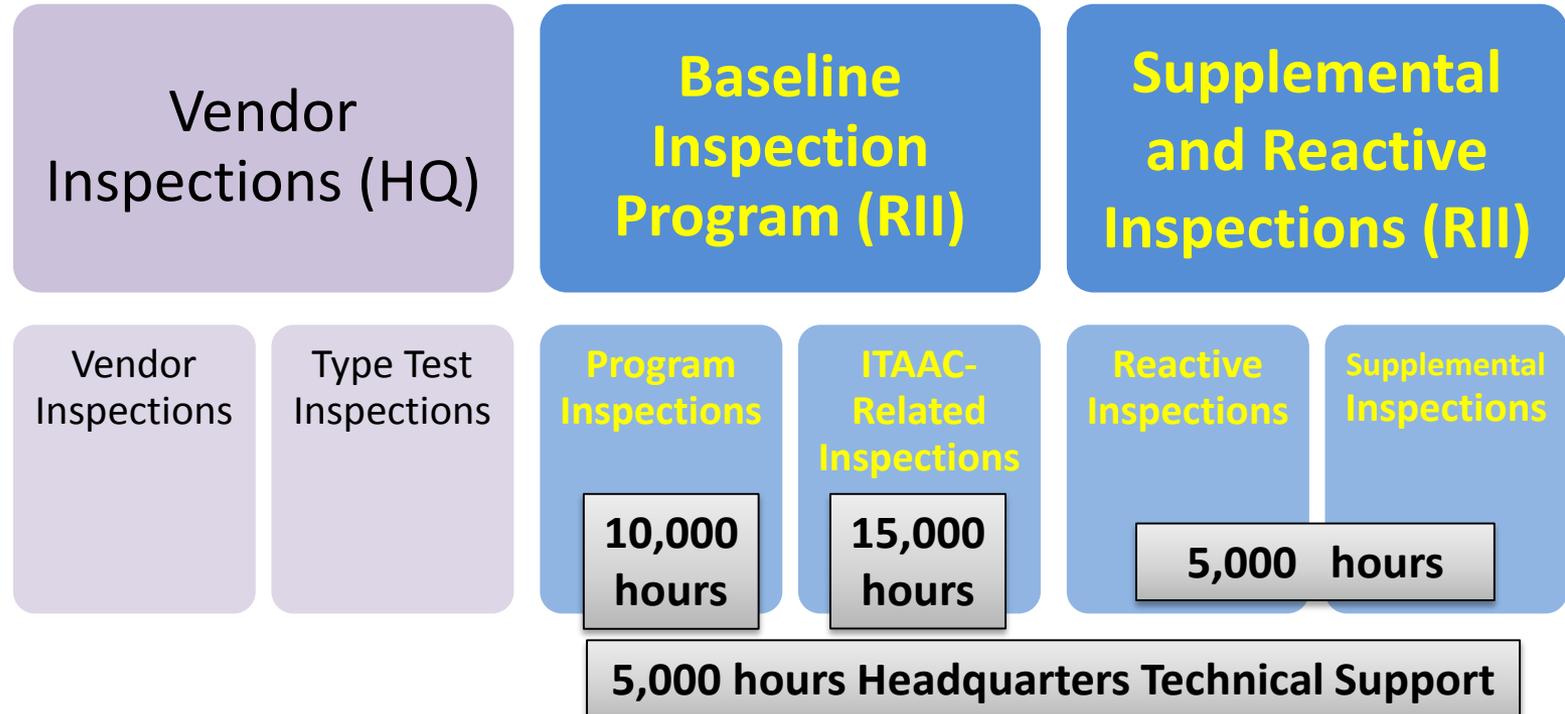
Victor Hall, Branch Chief
Construction Inspection Program Branch
Division of Construction Inspection
and Operational Programs
Office of New Reactors

Construction Inspection Program



Construction Inspection Program

Inspections



35,000 hours of Inspection Estimated per Unit

Construction Inspection Program

Inspections

Vendor Inspections (HQ)

- Vendor Fabrication and Quality Assurance
- **Observations for ITAAC Closure**

IMC
2507

Program Inspections (RII)

- Construction Programs
- Operational Programs

IMC
2504

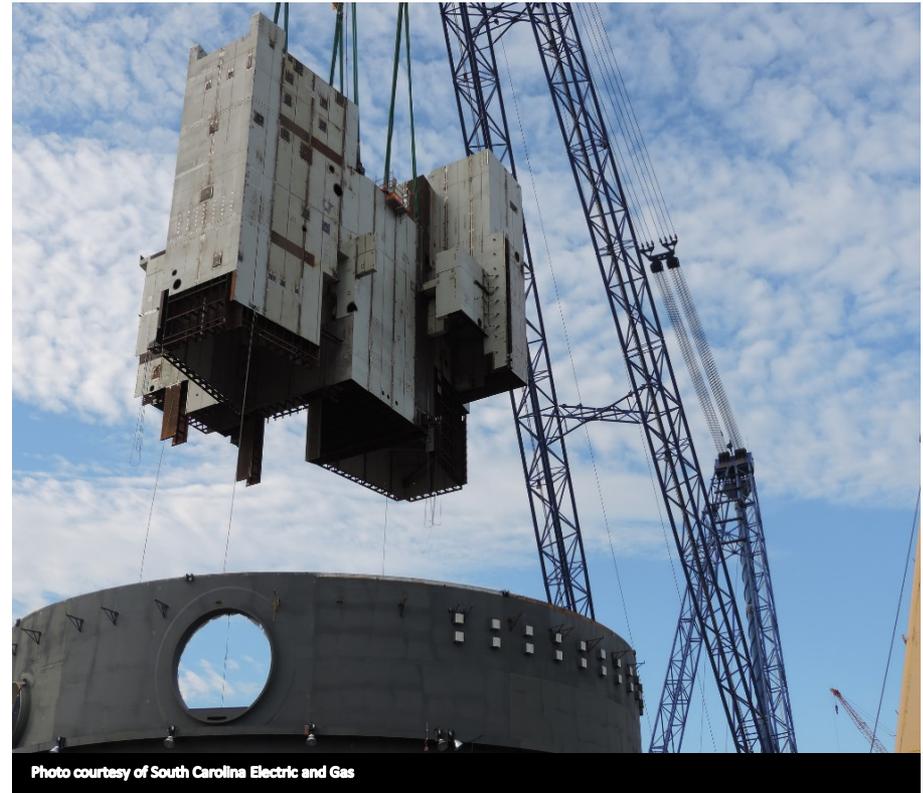
ITAAC-Related Inspections (RII)

- Verify plant built in accordance with license
- The inspection program samples ITAAC

IMC
2503

ITAAC Inspections (IMC 2503)

- ITAAC are grouped into families, and each family has inspection procedures associated with it
- Inspection results are recorded and are associated with specific ITAAC
 - Information is used by the region to determine inspection completion & HQ uses the information for ITAAC closure verification reviews



V.C. Summer – Steam Generator & Refueling Canal
Module Placement

Vendor Inspection Program (IMC 2507)

As part of the Construction Inspection Program, NRC inspects vendors supplying materials, equipment and services:

- Vendor QA Programs (10 CFR Part 50, App B)
- Reporting of Defects (10 CFR Part 21)
- Commercial-Grade Dedication
- Type Testing for ITAAC-Related Activities
- Environmental Qualification Testing
- Counterfeit, Fraudulent, or Suspect Items



Region II and NRO Vendor Inspection Coordination

- Region II Plans ITAAC Inspections (IMC 2503) and Program Inspections (IMC 2504)
 - Vendor Inspectors and HQ Technical Staff May Support Inspections
- NRO (HQ) Plans Vendor Inspections (IMC 2507)
 - Region II May Request NRO to Schedule ITAAC-Related Vendor Inspections
 - Region II Construction Inspectors Participate in ITAAC-Related Vendor Inspections

Region II and NRO Vendor Inspection Coordination (Continued)

NRO (HQ) Authors Vendor Inspection Reports

- Findings (including ITAAC-Related) are Vendor Inspection Findings
- Region II Captures ITAAC-Related Findings in CIPIMS
- Document All ITAAC Findings on Public Website

CIPIMS

PLANNERS

PLANNING ACTIVITIES

- Review **DCD Generic PrePlans**
- Review **Site Specific PrePlans (including SmartPlans)**

INSPECTORS

CONSTRUCTION INSPECTION

- Create new **Inspection Plan**
- Review or edit **Inspection Plan**
- Create new **Inspection Report**
- Review or edit **Inspection Report**

VENDOR INSPECTION

- Create new **Inspection Plan**
- Review or edit **Inspection Plan**
- Create new **Inspection Report**
- Review or edit **Inspection Report**

APPROVERS

CONSTRUCTION INSPECTION

- Review or Approve designated **Inspection Plans**
- Review or Approve designated **Inspection Reports**

VENDOR INSPECTION

- Review or Approve designated **Inspection Plans**
- Review or Approve designated **Inspection Reports**

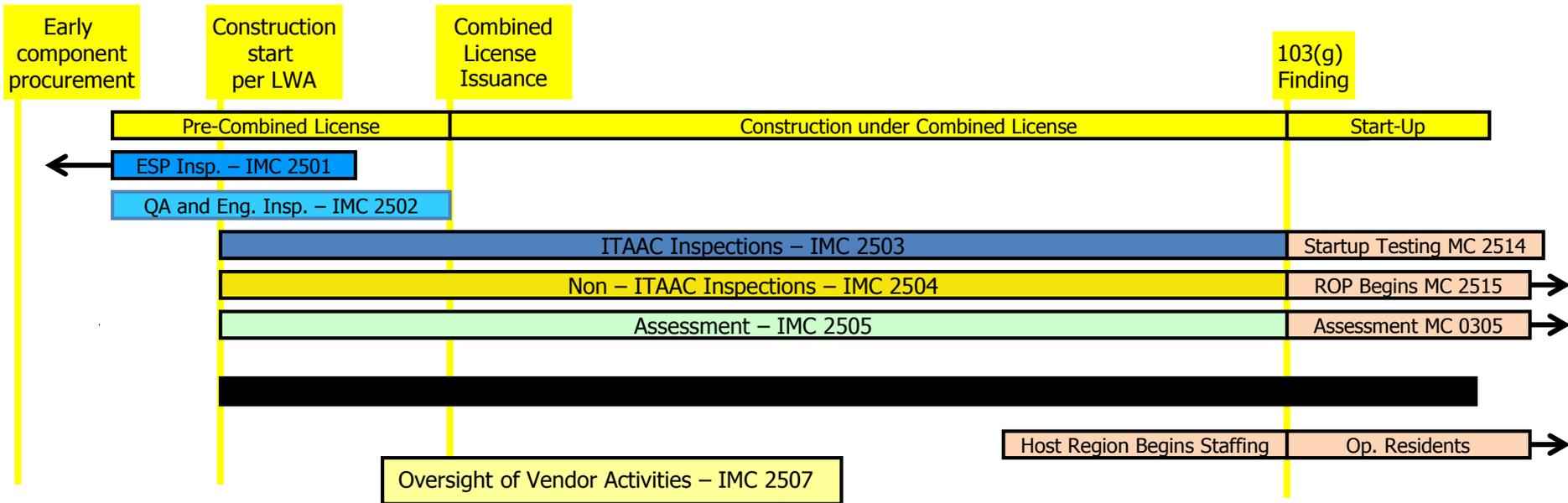
VERSION 2.2

Summary

- NRC Coordinating to Ensure Focused and Efficient Vendor Inspections of ITAAC
- Fine Tuning Inspection Processes to Effectively Plan, Inspect, and Document
- Improved Public Website for Status of All ITAAC-Related Findings



Construction Inspection Program



IMC 2501

- ESP QA controls on integrity & reliability of data collected for site characterization.
- ESP controls for application preparation

IMC 2502

- Pre-COL inspections of licensee oversight of contractors (ITAAC)

IMC 2507

- ITAAC Observations
- Verification of QA program implementation, compliance, reporting and corrective action

IMC 2504

- Construction QA (including Corrective Action Program)
- Commercial Grade Dedication
- Reporting Defects & Noncompliance
- ITAAC Management
- Pre-operational testing
- Security During Construction
- Operational programs & Operational Readiness (Host Region Support)
- In-service , Pre-service Inspection & Testing
- Fire protection
- Operator Training & Qualification
- Maintenance Rule
- Radiation Protection
- Emergency Preparedness

IMC 2503

- Verification of successful performance of ITAAC-related activities

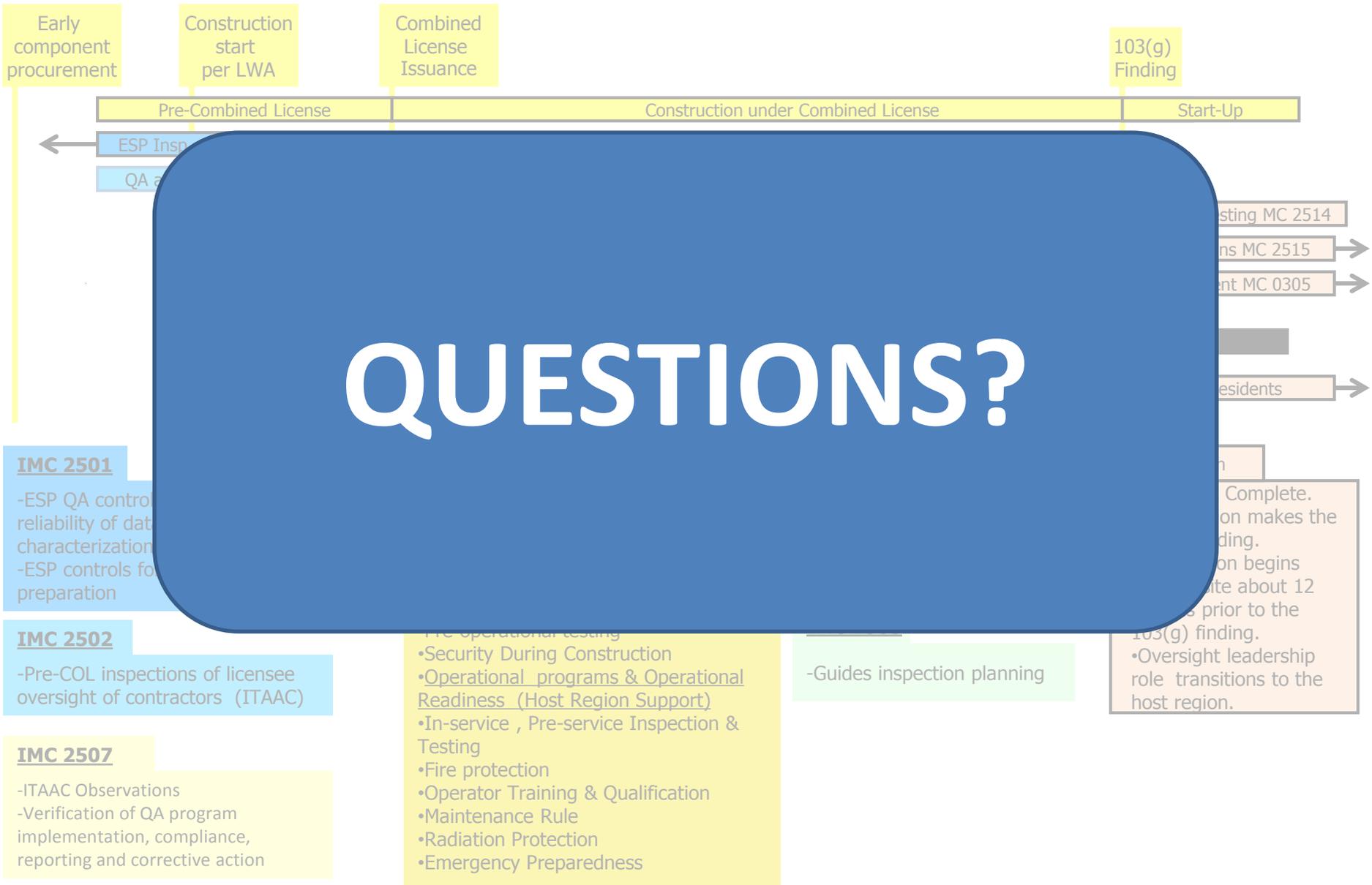
IMC 2505

- Guides inspection planning

Transition

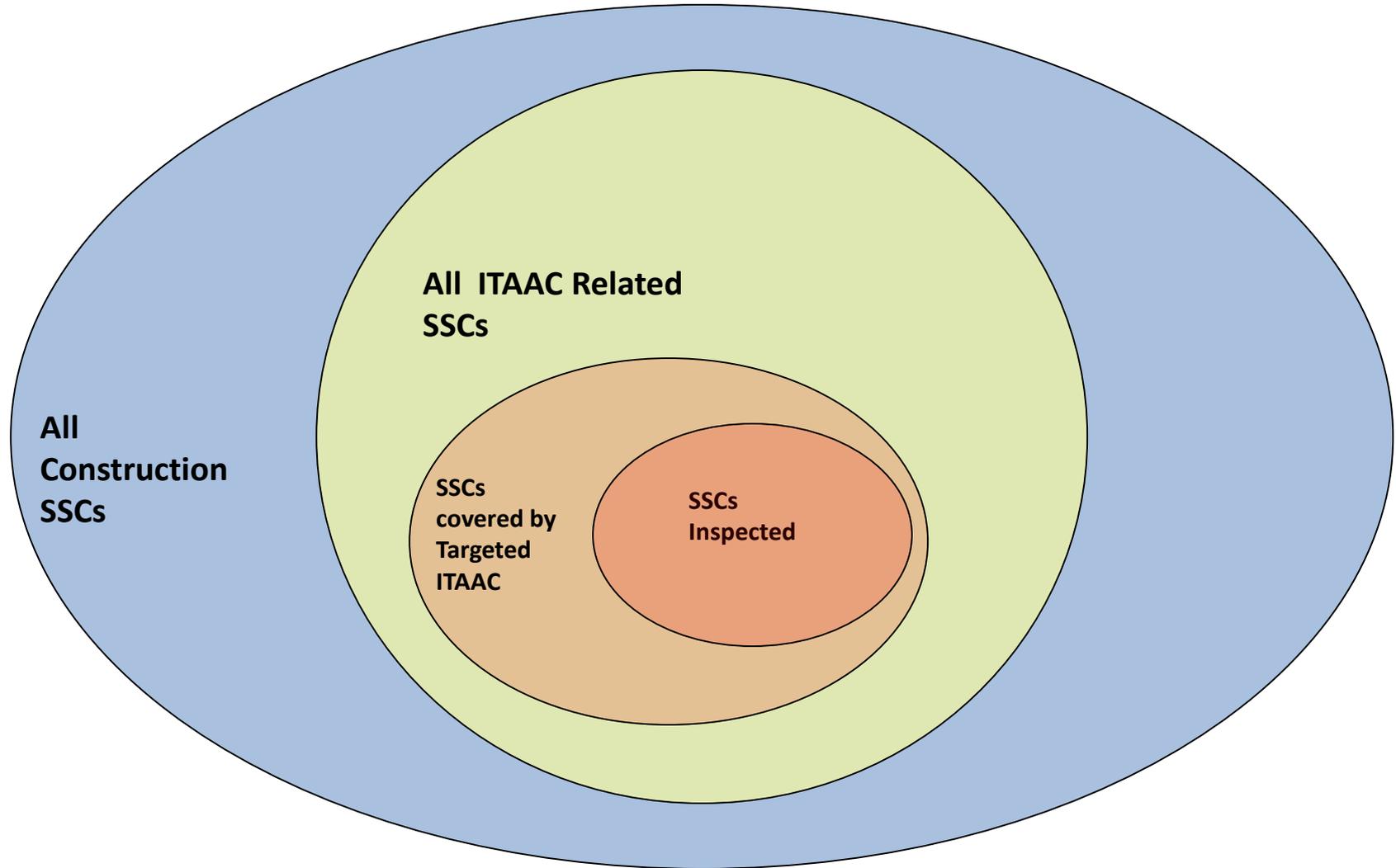
- All ITAAC Complete.
- Commission makes the 103(g) finding.
- Host region begins staffing site about 12 months prior to the 103(g) finding.
- Oversight leadership role transitions to the host region.

Construction Inspection Program



Extra Slides

ITAAC Inspection Sample Methodology



Sampling of ITAAC

