



United States Nuclear Regulatory Commission

Protecting People and the Environment

**Inspections, Tests, Analyses and
Acceptance Criteria Demonstration
Project**

April 24, 2017

Rockville, MD



U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

Public Meeting Overview

Purpose

- To evaluate the NRC's processes and provide recommendations to maximize its effectiveness and efficiency in meeting the ITAAC closure demands expected during the ITAAC surge

Agenda

- Introduction
 - ITAAC Closure Notification Process
 - ITAAC Inspection Process
 - ITAAC Surge Inspection Demonstration
 - ITAAC Closure Notification Surge Demonstration
 - Preliminary Recommendations and Next Steps
-
- Open discussion with licensees after each topic

Abbreviations

- ITAAC Inspections, Tests, Analyses, and Acceptance Criteria
- ICN ITAAC Closure Notification
- UIN Uncompleted ITAAC Notification
- IPCN ITAAC Post-Closure Notification
- VEF Verification Evaluation Form
- DAC Design Acceptance Criteria-ITAAC in the design certification
- ACT The Atomic Energy Act of 1954, as amended
- COL Combined License
- IIL Insufficient Information Letter
- PPL Potential Problem Letter
- VOICES Verification of ITAAC Closure, Evaluation, and Status
- CIPIMS Construction Inspection Program Information Management System
- 52.103(g) The NRC finding made at the end of construction by the NRC once all ITAAC are completed and all acceptance criteria are met



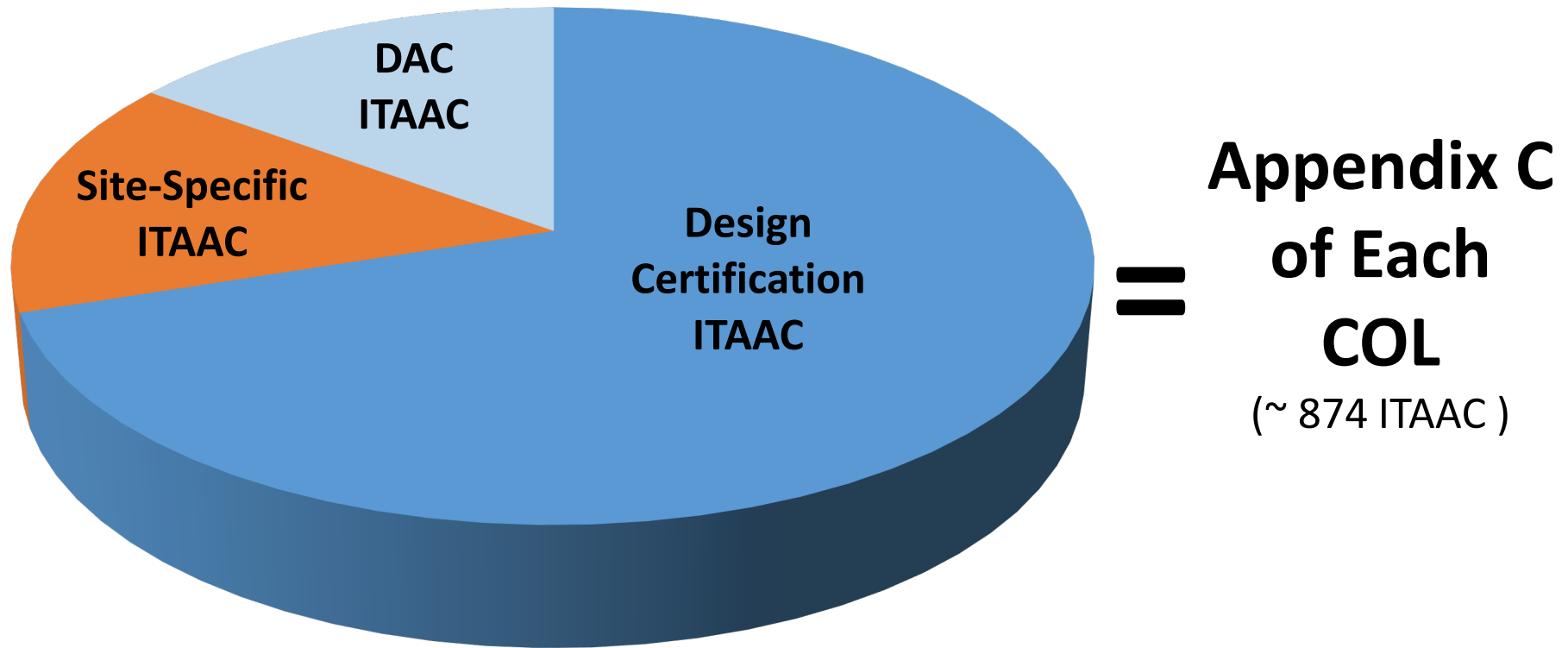
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ITAAC Introduction and Closure Notification Process

ITAAC are required by 10 CFR Part 52



ITAAC provide reasonable assurance the facility has been constructed and will be operated in conformity with the license, provisions of the ACT, and the Commission's rules and regulations

ITAAC Closure Process Infrastructure

- **Procedures:**

- Regulatory Guide 1.215 “Guidance for ITAAC Closure Under 10 CFR Part 52
- NEI 08-01 “Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52”
- NRO-REG-103 Inspections, Tests, Analyses and Acceptance Criteria Closure Verification Process

- **IT infrastructure:**

- VOICES and CIPIMS

Both IT systems are fully functional via remote access in the event of a Major Event (e.g., pandemic).

Roles within VOICES can be filled by numerous individuals simultaneously.

VOICES ITAAC Review Record

ITAAC Review Records - 7032

VOICES Review ID	7032	Plant Name	VC Summer Nuclear Station Unit
* Notification Received Date	02/01/2017	Unit Number	SUM2
* Docket Number	5200027	COL Number	NPF-93
Licensee Name	SCE&G	* ITAAC Review Status	Unconditionally Verified as Ci
* ITAAC Number	2.1.03.09a.i	Project Manager	Hoellman, Jordan
ITAAC Type	Targeted	ITAAC Family	
Notification Type	ICN	* Notification ML Number	ML17031A342 ADAM

Role Assignments

* Lead Approver	Welch, Christopher	
Lead Reviewer		
Specialized TR Type		
Request Specialized TR Notes		
Technical Approver		
Technical Reviewer		
Insufficiency Contact Notes		
Other Notes		

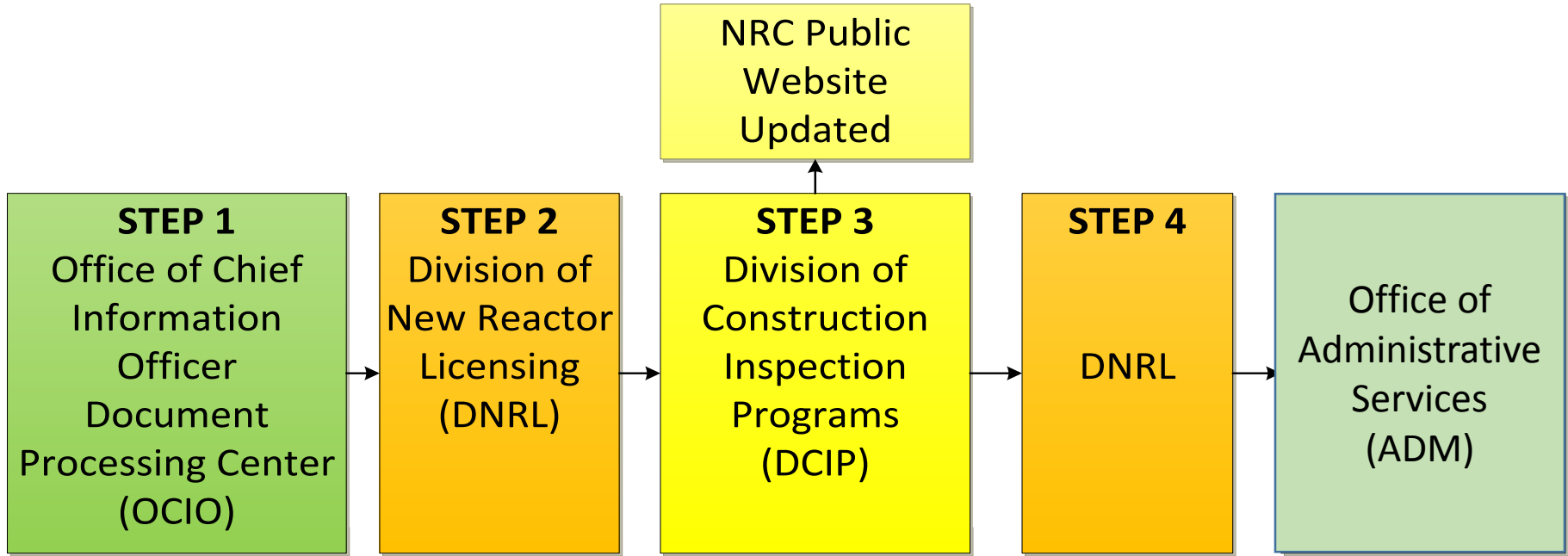
Print

Save

Cancel

Completed

ITAAC Closure Process Steps



300/day

- Processes Document Submittals
- ADAMS
- E-RIDS

100/day

- Checks for Open Licensing Actions
- Creates VOICES Record

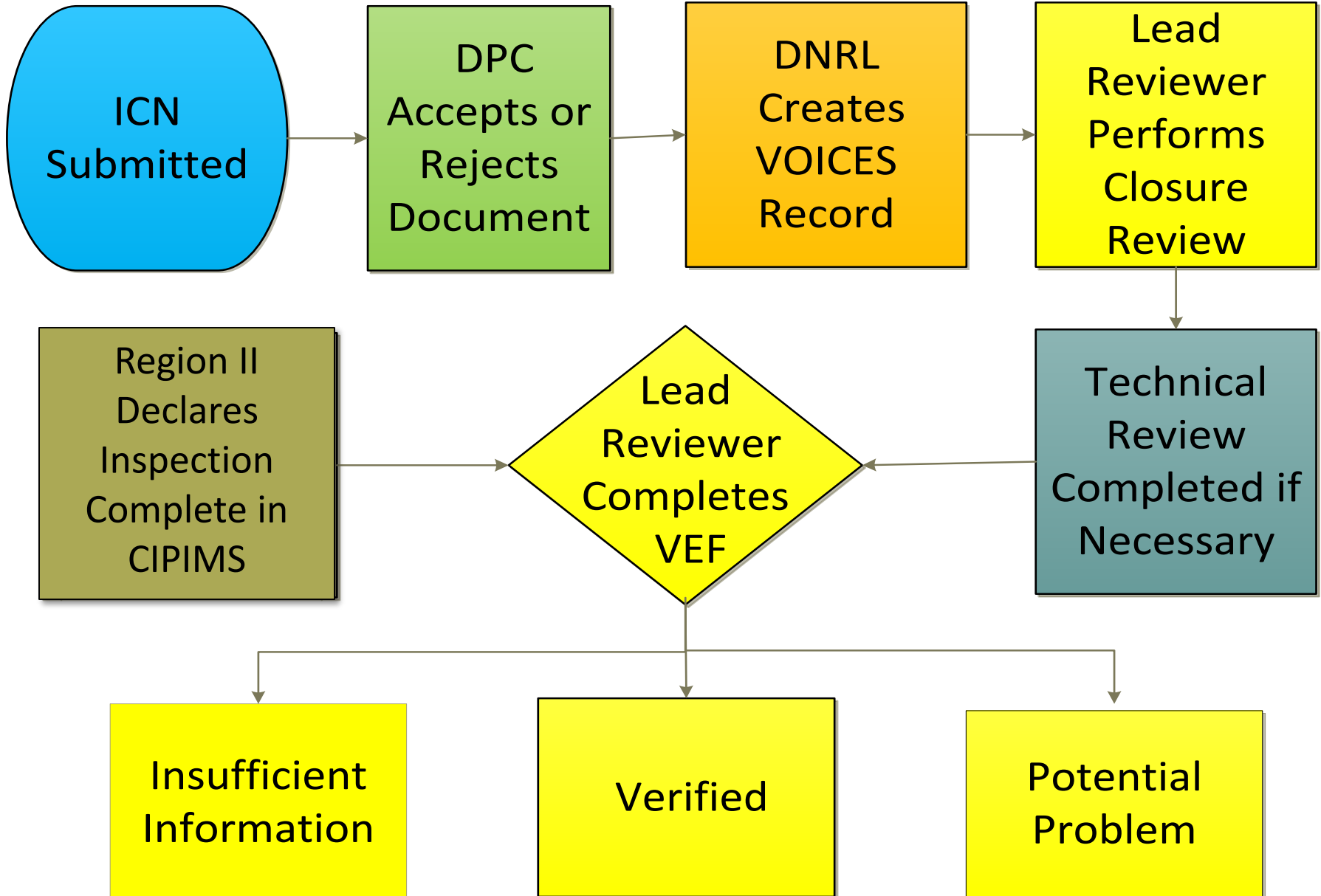
200 - 440/month

- Reviews ICN/UIN Completes VEF & ADAMS Entry
- Obtains Tech Staff Assistance as Required
- Updates Public Website

1 FRN/week/unit

- Federal Register Notice
- Insufficient Information Letter
- Potential Problem Letter
- Processes the Federal Register Notice

Process Overview

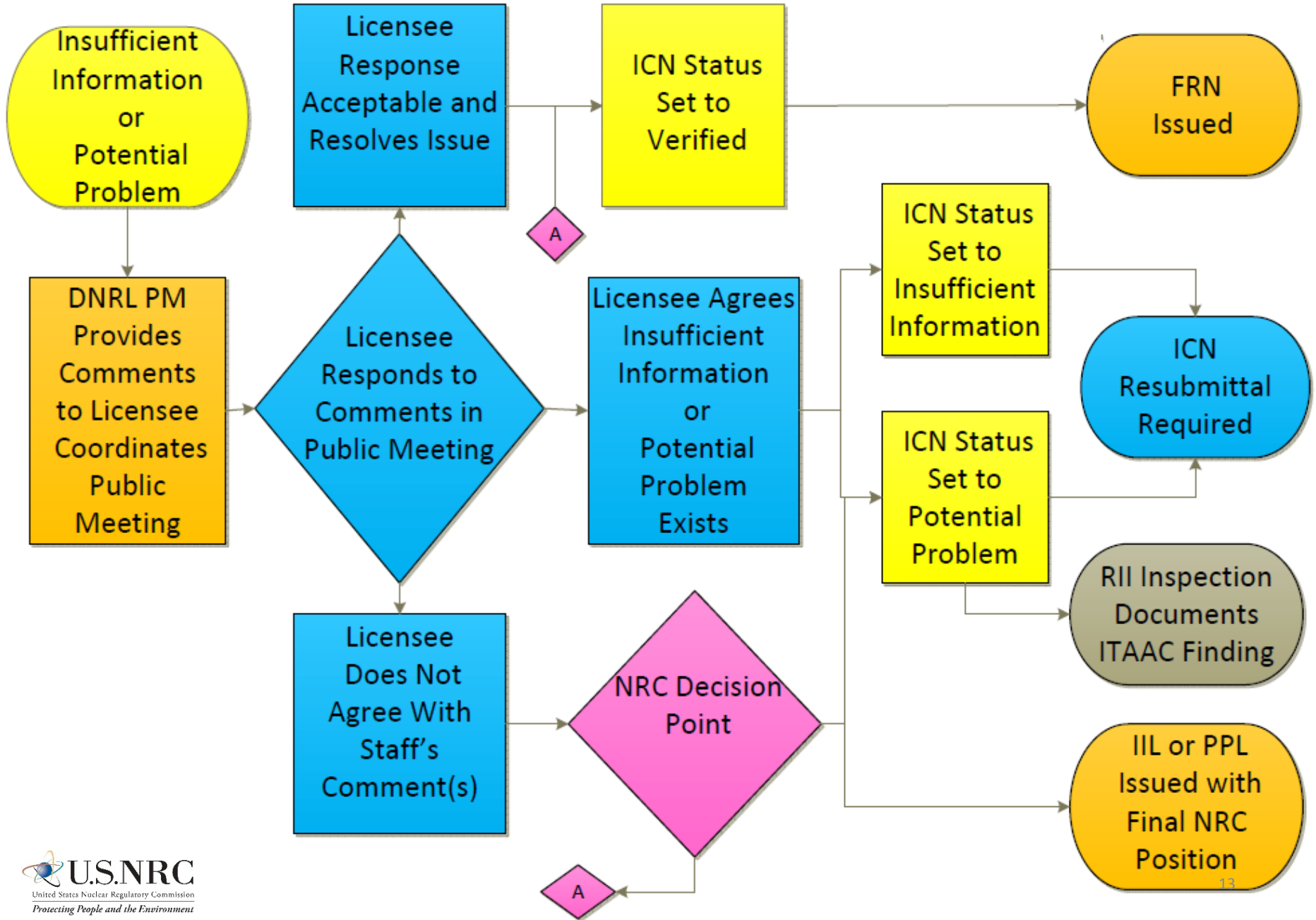


Technical Staff Reviews

Tech Staff ICN reviews are focused on the acceptability of the information provided in the notification.

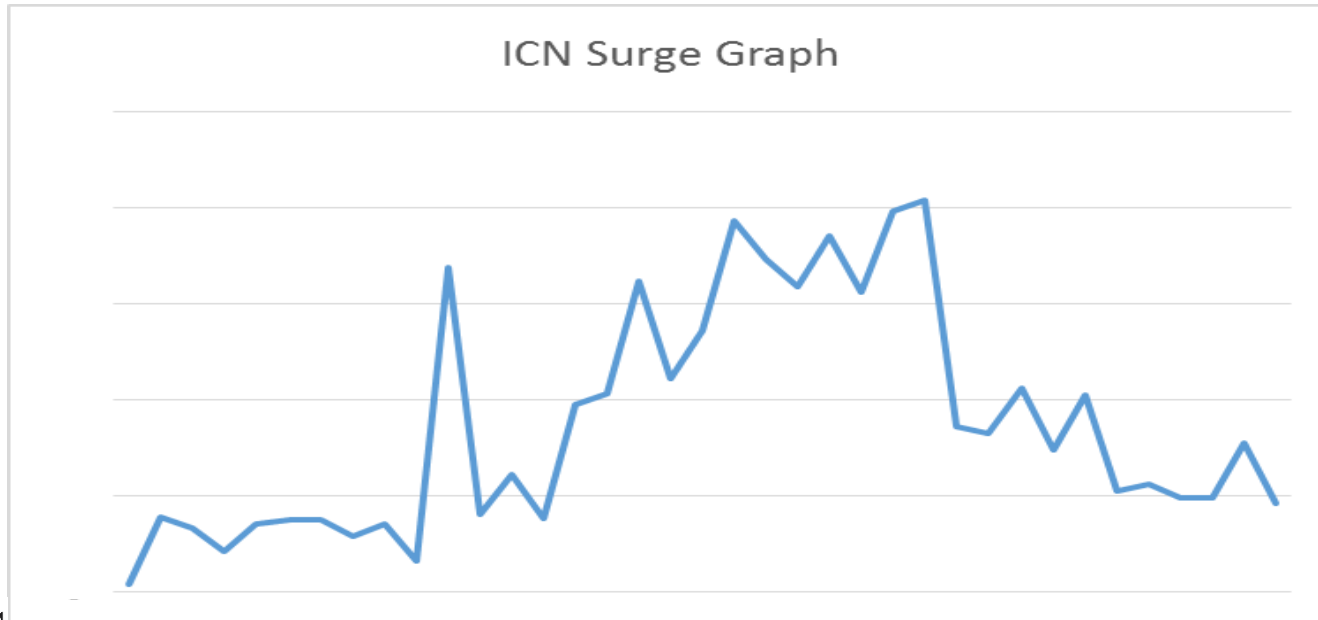
1. Emergency Planning
2. Security
3. Design Acceptance Criteria
4. Digital Instrumentation and Controls
5. Human Factors Engineering
6. Complex ITAAC
7. Lead Reviewer identifies significant issue(s)

ICNs With Challenges

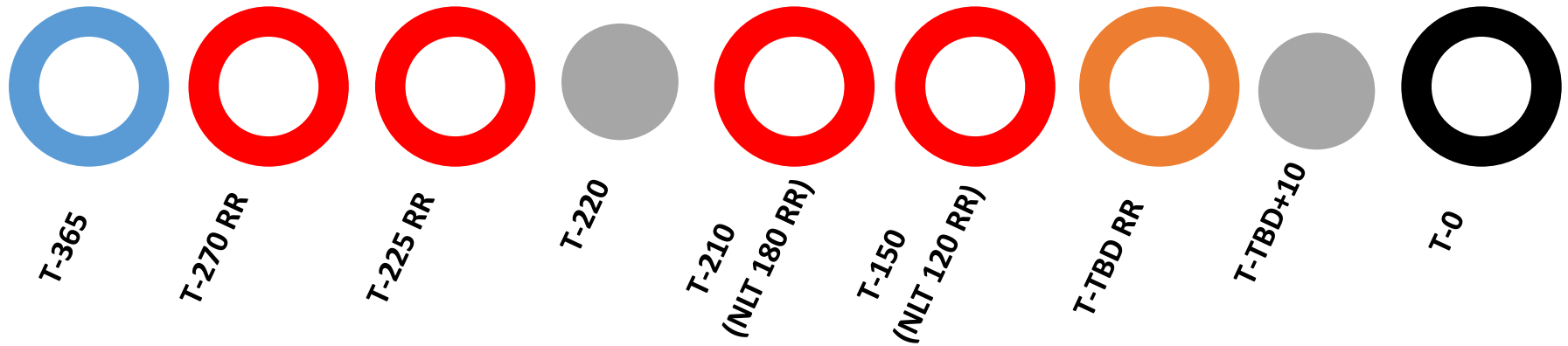


What is the ITAAC Surge

- There are 2 parts to the ITAAC surge – construction inspection and closure
- There will be a peak in construction inspection activities one to two years before the end of the construction of each unit, which will cause a surge in ITAAC inspections
- In addition to the Unit specific surge, overlapping construction schedules for all four Units may amplify the ITAAC surge



Key Milestones



T-365: Projected Start of the ICN Surge*

*All four units, peak is at T-180 of the first unit

T-270 RR: Notice of Fuel load Date NLT 270 Days Prior

T-225 RR: All UINs submitted NLT 225 days Prior to Fuel Load

T-220: VOICES audit of UINs & ICNs complete. For each ITAAC an ICN or UIN must exist on the public website.

T-210: Notice of Intended Operations FRN Published

[Regulatory Requirement is NLT 180]

T-150: Deadline to request ITAAC Hearing

[Regulatory Requirement is 60 days after issuance of Intended Operations FRN]

T-TBD RR: "All ITAAC Complete Notification"

T-TBD + 10: NRC Issues SECY plus Basis Document to the Commission
{RII inspections and 52.103(g) basis document input completed. NRO ICN reviews and inputs for 52.103(g) basis document complete.}

T-0: Issue 52.103(g) Finding

Legend

○ **RR** – Regulatory Requirement

● Other milestone

NLT – No Later Than

Focus Areas and Preliminary Recommendations

1. Continue to enhance and adapt ICN review workflows for timely ICN reviews.
 - Continue to utilize weekly public meeting for early resolution of ICN issues
 - Enhance NRC's guidance to provide more clarity and consistency for processing ITAAC closure notification issues
2. Provide tools to inform the status of ITAAC closure notifications to support timely ICN reviews.
 - Develop performance dashboard for early identification and resolution of ITAAC closure related issues

Performance Dashboard:

For concept only, this is a potential dashboard.

NRC Processes Associated With ITAAC Completion			
ITAAC CLOSURE PROCESS	STATUS	ITAAC INSPECTION ACTIVITIES	STATUS
(A.1) Process Document Submittals	Green	(B.1) Perform Inspection Activity (Includes Prep/Doc)	Red
(A.2) Creating ICN Records in VOICES	Green	(B.2) Technical Assistance Requests (TARs)	Red
(A.3) ICN/UIN Reviews	Yellow	(B.3) Unresolved Items (URIs)	Green
(A.4) Generates FRN and Insufficient Info/Potential Problem Letters	Green	(B.4) ITAAC Finding Affects AC	Green
(A.5) Processes FRN	Green	(B.5) Late Filed Allegations/Petitions	Green
(A.6) Insufficient Info/Potential Problem Letters	Green	(B.6) ITAAC Post-Closure Notifications (IPC�)	Green

For example:

Dashboard Bases Document

	METRIC COLOR EQUIVALENTS		
	GREEN	YELLOW	RED
(A.3) Metric for ICN/UIN Reviews	ICN/UIN review open X weeks	ICN/UIN review open for Y weeks	ICN/UIN review open for Z weeks
(A.3) ADDITIONAL ACTION REQUIRED:	None	Notify Division Director and do	Notify office director and do....



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**ITAAC Closure Notification
Process –
Questions/Open Discussion
with the Licensees**



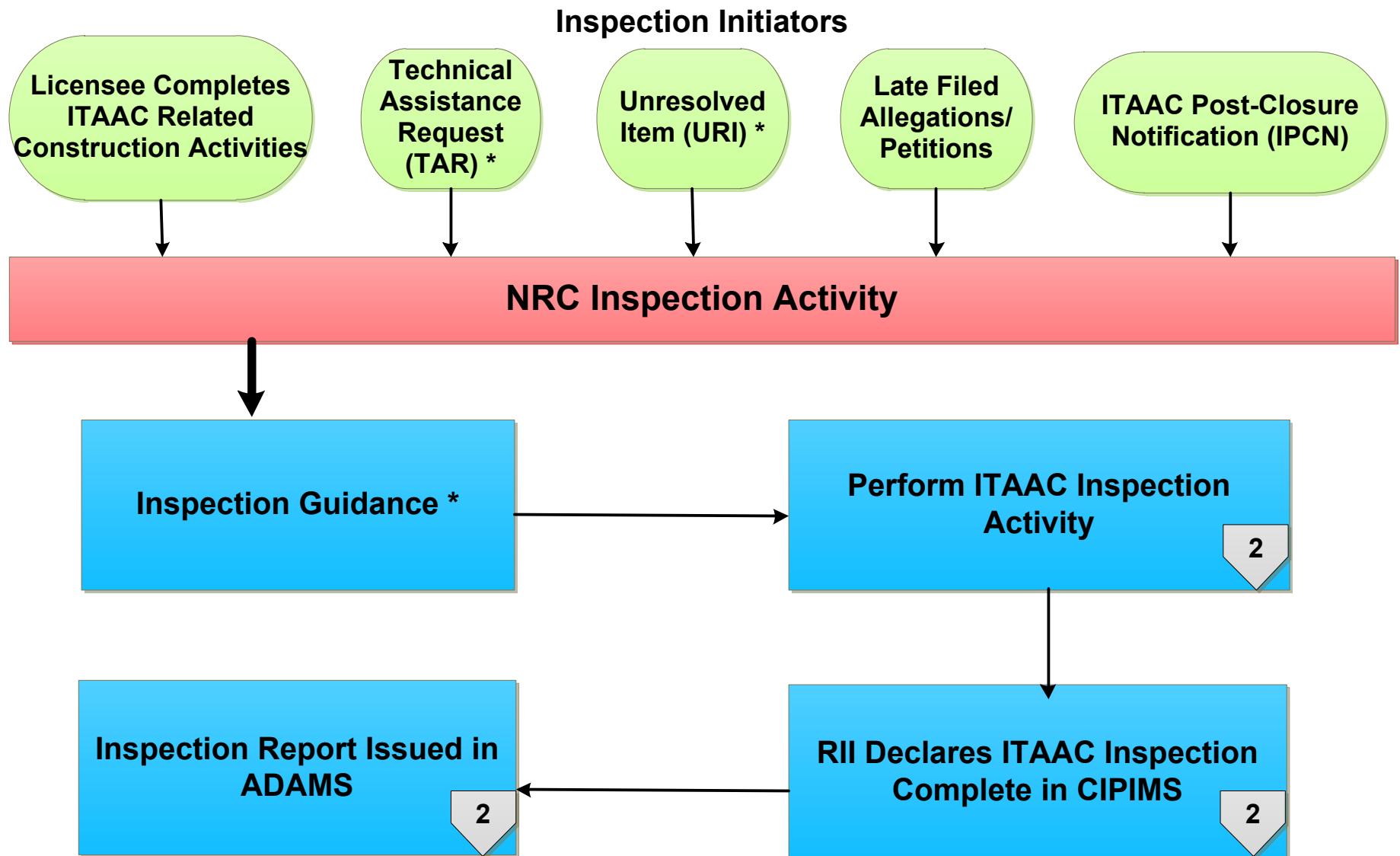
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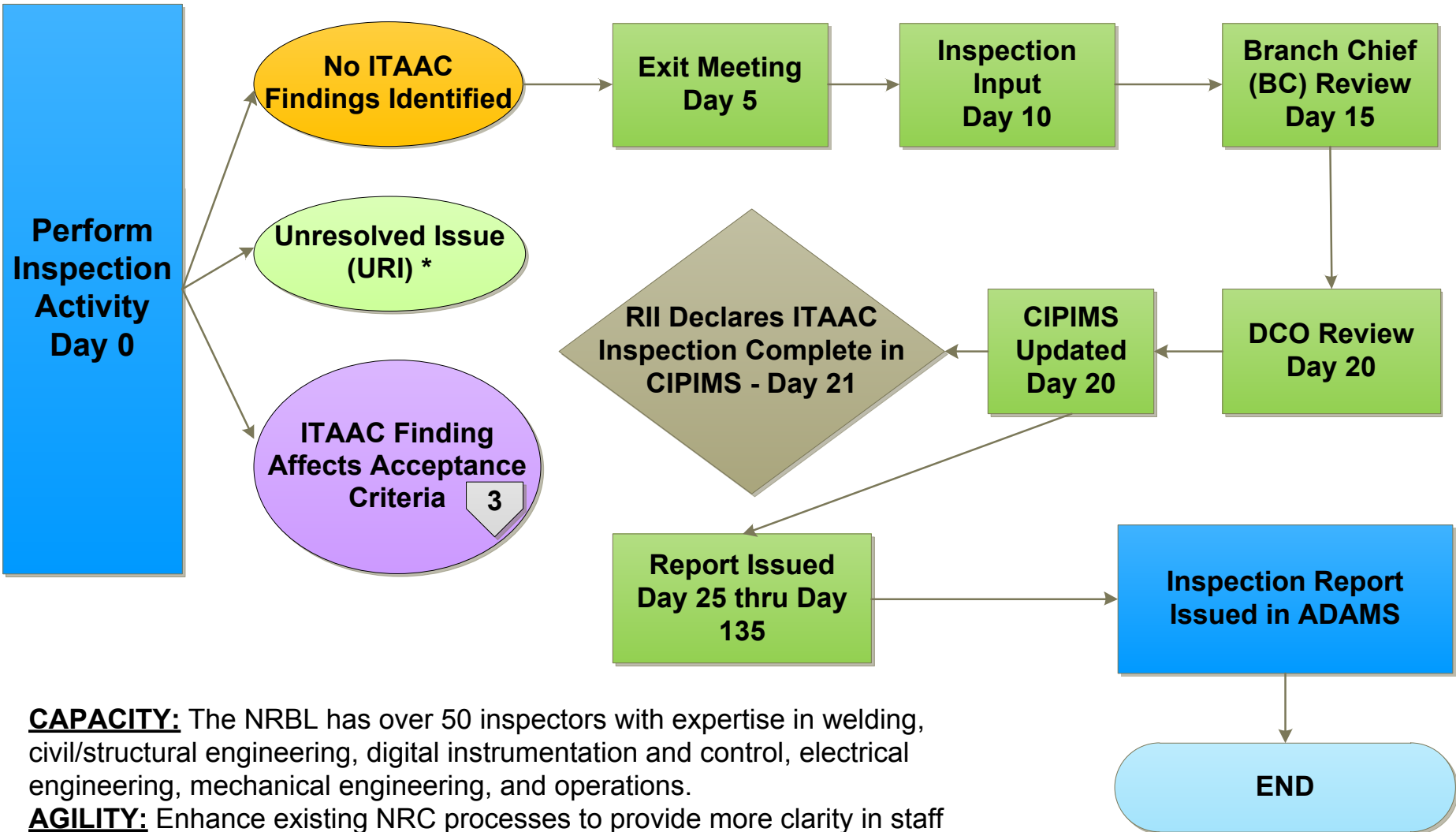
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ITAAC Inspection Process

ITAAC Inspection Process



Perform ITAAC Inspection Activity



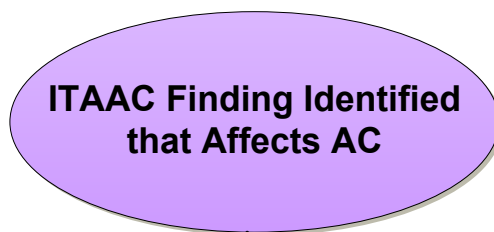
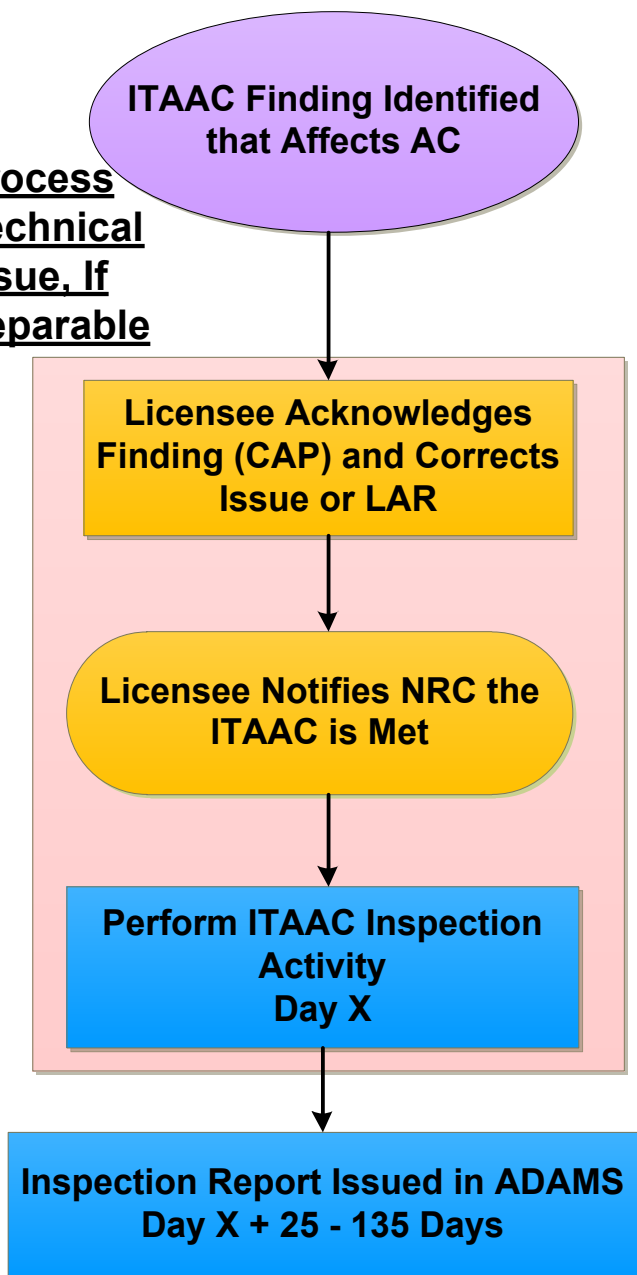
CAPACITY: The NRBL has over 50 inspectors with expertise in welding, civil/structural engineering, digital instrumentation and control, electrical engineering, mechanical engineering, and operations.

AGILITY: Enhance existing NRC processes to provide more clarity in staff level guidance for the timely processing of potential ITAAC technical issues that may occur during the ITAAC Surge and the 103(g) finding timeframe.

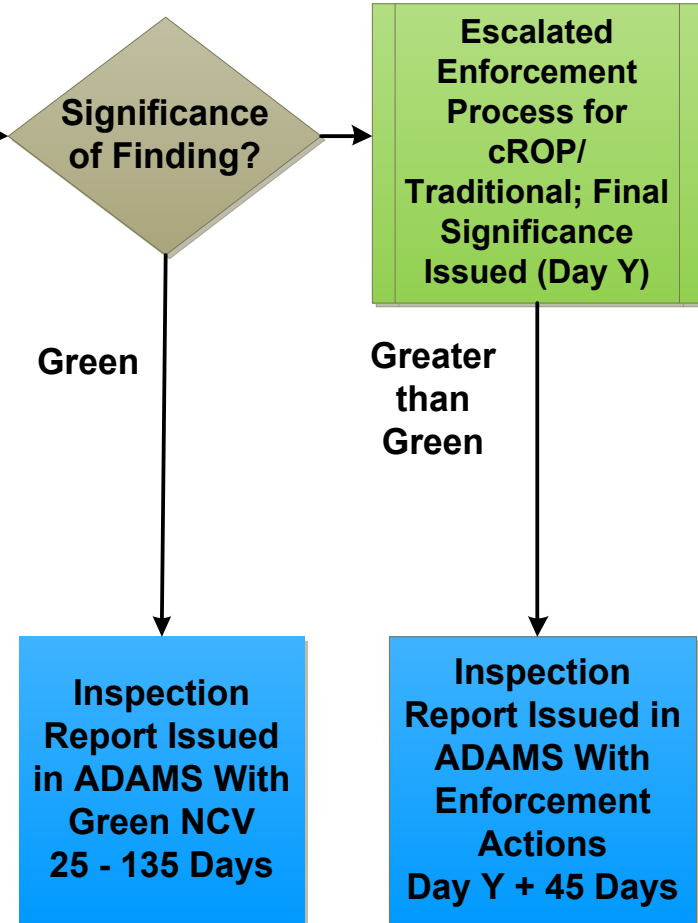
DECISION-MAKING: ITAAC Inspection completion and results determine when ITAAC can be closed in CIPIMS

ITAAC Finding that Affects Acceptance Criteria

**Process
Technical
Issue, If
Separable**



**At the Same Time,
Continue to Follow
Existing Processes**



Focus Areas and Preliminary Recommendations

1. Continue to focus on safety mission work while considering enhancements to existing processes that would result in more timely ITAAC inspection results
 - Enhance NRC's guidance to provide more clarity and consistency for inspecting and processing potential ITAAC technical issues that may occur around the 103(g) finding timeframe
 - Develop performance dashboard for early identification and resolution of ITAAC closure related issues

Performance Dashboard:

For concept only, this is a potential dashboard.

NRC Processes Associated With ITAAC Completion			
ITAAC CLOSURE PROCESS	STATUS	ITAAC INSPECTION ACTIVITIES	STATUS
(A.1) Process Document Submittals	Green	(B.1) Perform Inspection Activity (Includes Prep/Doc)	Red
(A.2) Creating ICN Records in VOICES	Green	(B.2) Technical Assistance Requests (TARs)	Red
(A.3) ICN/UIN Reviews	Yellow	(B.3) Unresolved Items (URIs)	Green
(A.4) Generates FRN and Insufficient Info/Potential Problem Letters	Green	(B.4) ITAAC Finding Affects AC	Green
(A.5) Processes FRN	Green	(B.5) Late Filed Allegations/Petitions	Green
(A.6) Insufficient Info/Potential Problem Letters	Green	(B.6) ITAAC Post-Closure Notifications (IPC�)	Green

For example:

Dashboard Bases Document

	METRIC COLOR EQUIVALENTS		
	GREEN	YELLOW	RED
(B.3) Metric Processing and resolving URIs six months from 103g	URI open X weeks	URI open for Y weeks	URI open for Z weeks
(B.3) ADDITIONAL ACTION REQUIRED:	None	Notify Division Director and do	Notify ORA and do....



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**ITAAC Inspection Process—
Questions/Open Discussion
with the Licensees**



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ITAAC Surge Inspection Demonstration

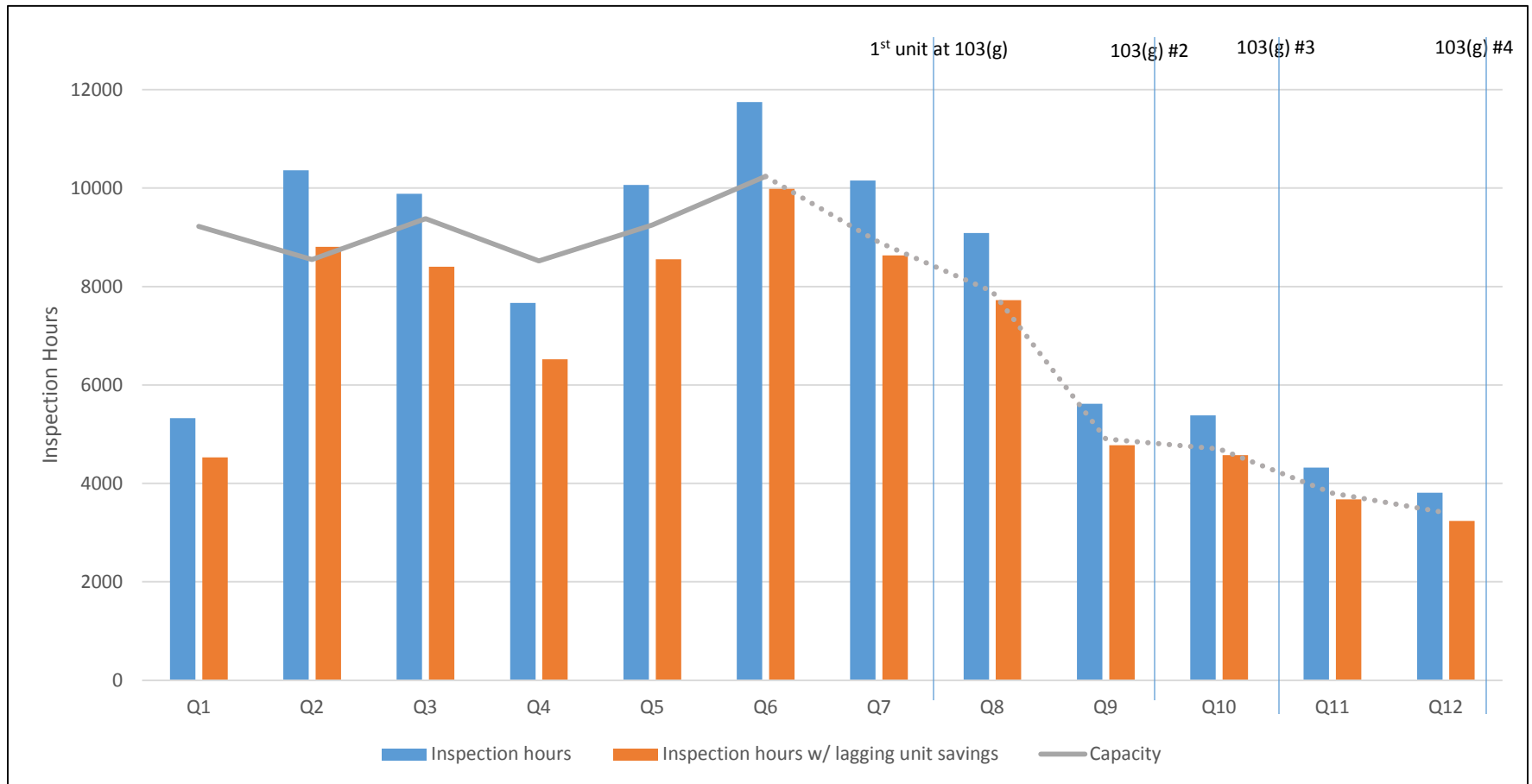
ITAAC Surge Scenarios

- Three scenarios were used to test inspection capacity
- Time is delineated by quarters with the end of Q12 as the final 103(g) date
- Scenario 1 – All 4 units with different 103(g) dates
- Scenario 2 – All 4 units with same 103(g) date
- Scenario 3 – Lead units complete together, lag units with 6 month delay
- Scenarios include all inspections, projected allegation work, projected enforcement, and project management for Vogtle and Summer

ITAAC Inspection Assumptions

- Inspection hour estimates are based on separate programmatic inspections for each unit
- Initial conservative estimate of resources – Inspection planning estimates compared to actuals are higher. There is an inspection savings of about 30% on the second unit for the site (Summer 3, Vogtle 4)
- Capacity is based on current resources allocated to construction inspection. Capacity past Q6 is projected (dashed line)
- Additional inspectors are available for support during the surge, if needed

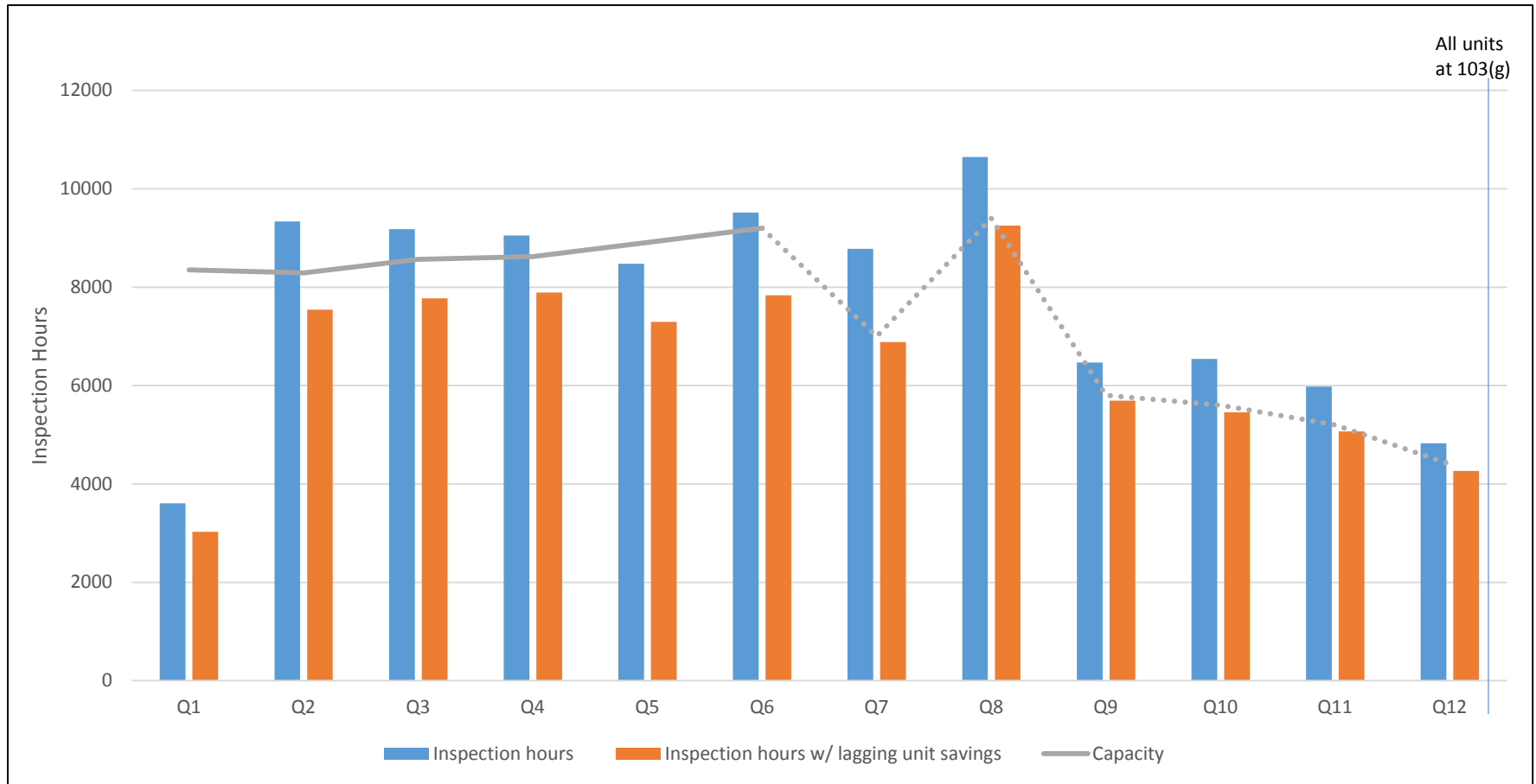
Scenario # 1 – Different 103(g) Dates



Mitigating strategies:

- Additional inspection support, if needed
- Historical 30% savings on lagging unit
- Adjust inspection schedules for non time-sensitive inspections

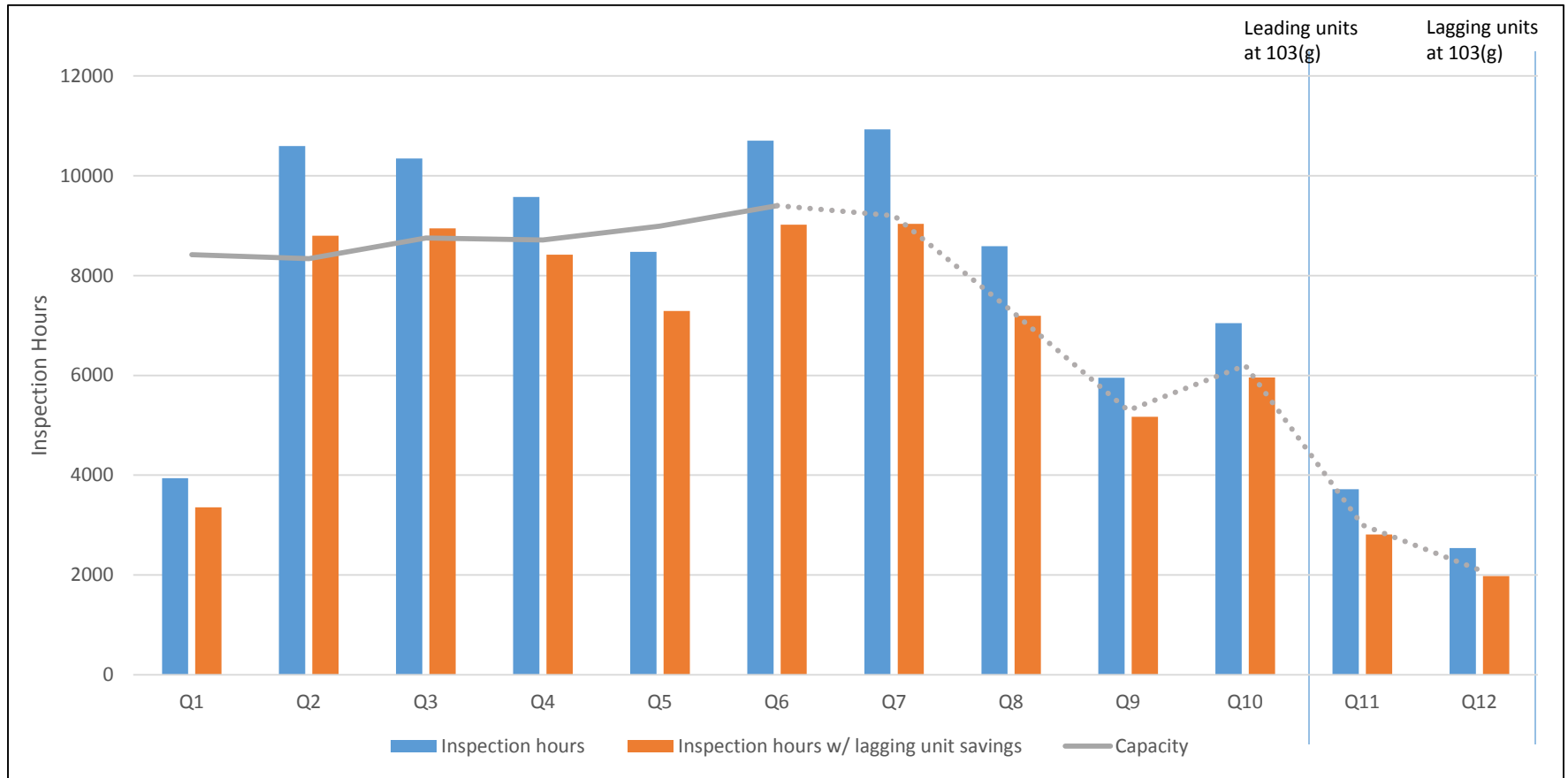
Scenario # 2 – All units with same 103(g)



Mitigating strategies:

- Additional inspection support, if needed
- Historical 30% savings on lagging unit
- Adjust inspection schedules for non time-sensitive inspections

Scenario # 3 – Two groups of 103(g) dates



Mitigating strategies:

- Additional inspection support, if needed
- Historical 30% savings on lagging unit
- Adjust inspection schedules for non time-sensitive inspections

NRC Inspection Agility

- Construction project managers will coordinate with licensees to inspect the short term activities (placing reactor vessel) as they occur. The long-term activities (paperwork review) will be moved as resources are available
- NRC maintains oversight of inspection progress through Primavera and CIPIMS

Focus Areas and Preliminary Recommendations

1. Maintain inspection scheduling flexibility
 - Continue to interact with licensee on construction schedules
 - Develop performance dashboard for early identification and resolution of ITAAC closure related issues
2. Maintain qualified inspection staff
 - Continue to cross train additional staff to maintain workflow capacities for inspection activities during surge



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ITAAC Surge Inspection Demonstration – Questions/Open Discussion with the Licensees



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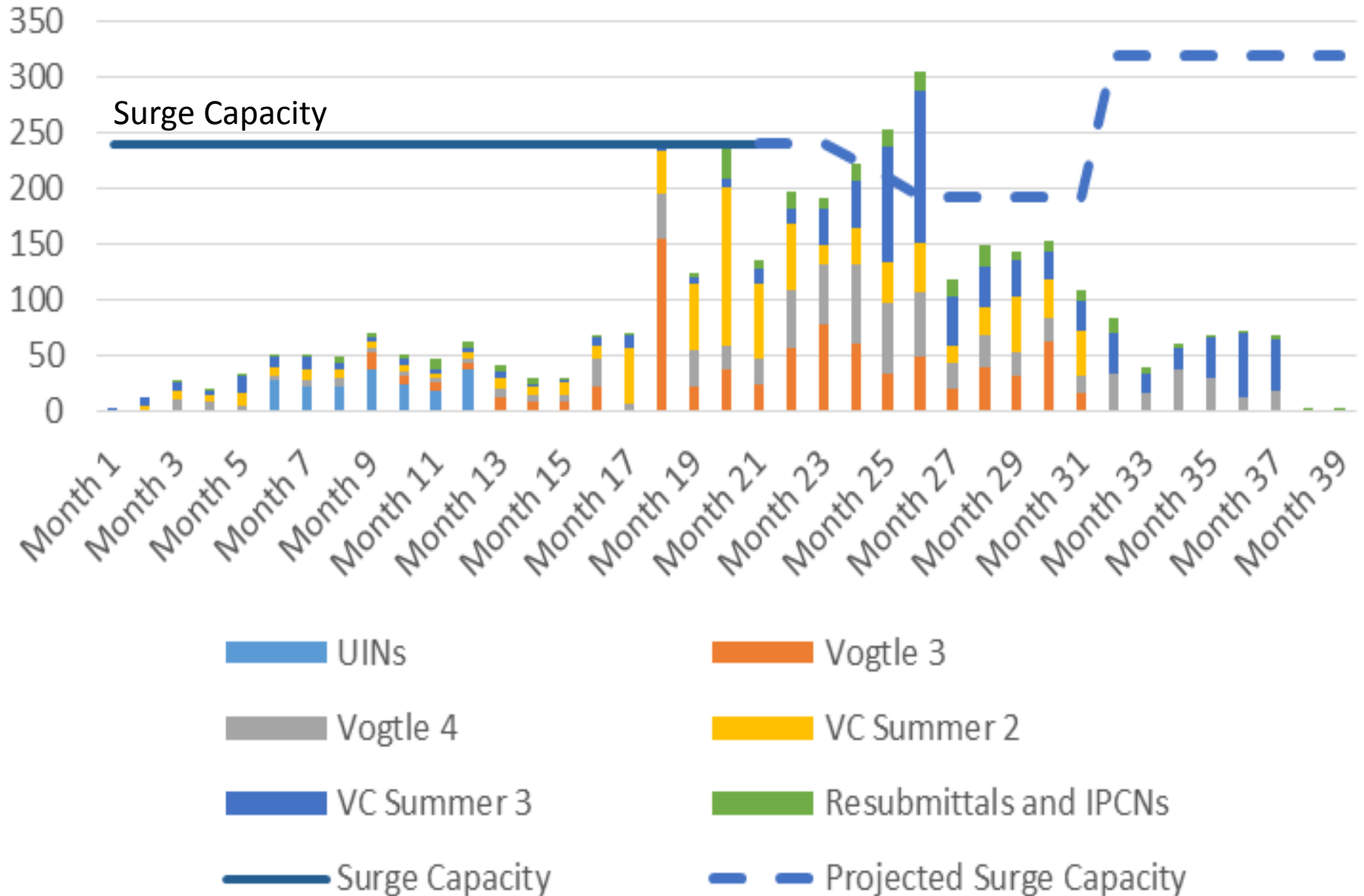
ITAAC Closure Notification Surge Demonstration

ICN Review

Graphical Analysis Assumptions

- Surge Capacity is three full time ICN reviewers
 - 4 ICNs per day per person, 12 per day total
 - 5 Days per week, 4 weeks per month = 240 ICNs/month
- Capacity based on current resources allocated for ICN reviews, past Q6 is projected (dashed line)
- Expanded Capacity may include up to 10 additional reviewers
- More complex ITAAC encountered in last 6 months before 103g
- Each lag unit's ICNs require less review time since they are likely identical to the lead unit's accepted ICNs
- IPCNs and Resubmittals are conservatively modelled as 15% for lead unit and 5% for other units, using a 2-month lag

Scenario # 3 – Two groups of 103(g) dates



Focus Areas and Preliminary Recommendations

1. Respond to staffing needs considering changes in construction schedules to support ICN review
 - Cross-train and maintain additional staff to support ICN workflow capacities during surge
 - Establish standing agenda items during weekly public meeting to discuss expected submittal workloads for early notification of critical process points
2. Recognize which areas of ICN reviews need priority
 - Develop internal performance dashboards for VOICES for early identification and resolution of issues



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**ITAAC Closure Notification
Surge Demonstration –
Questions/Open Discussion
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Preliminary Recommendations and Next Steps

Focus Areas and Preliminary Recommendations

1. Maintain staffing needs considering changes in construction schedules to support ITAAC inspection and ICNs review
 - Establish standing agenda item during weekly public meeting to discuss expected submittal workloads
 - Continue to cross train additional staff to maintain workflow capacities for ICN processing and inspection activities during surge
2. Provide clarity in processes that would result in more timely ITAAC inspection results and ICNs review
 - Enhance NRC's guidance to provide more clarity and consistency for inspecting and processing potential ITAAC technical issues that may occur around the 103(g) finding timeframe
3. Early identification and resolution of issues
 - Develop performance dashboard for early identification and resolution of ITAAC closure related issues
 - Consider interim organizational structure to support ITAAC closure

Performance Dashboard:

For concept only, this is a potential dashboard.

NRC Processes Associated With ITAAC Completion			
ITAAC CLOSURE PROCESS	STATUS	ITAAC INSPECTION ACTIVITIES	STATUS
(A.1) Process Document Submittals	Green	(B.1) Perform Inspection Activity (Includes Prep/Doc)	Red
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(A.3) ICN/UIN Reviews	Yellow	(B.3) Unresolved Items (URIs)	Green
(A.4) Generates FRN and Insufficient Info/Potential Problem Letters	Green	(B.4) ITAAC Finding Affects AC	Green
(A.5) Processes FRN	Green	(B.5) Late Filed Allegations/Petitions	Green
(A.6) Insufficient Info/Potential Problem Letters	Green	(B.6) ITAAC Post-Closure Notifications (IPC�)	Green

For example:

Dashboard Bases Document

	METRIC COLOR EQUIVALENTS		
	GREEN	YELLOW	RED
(B.3) Metric Processing and resolving URIs six months from 103g	URI open X weeks	URI open for Y weeks	URI open for Z weeks
(B.3) ADDITIONAL ACTION REQUIRED:	None	Notify Division Director and do	Notify ORA and do....

Next Steps

- Consider feedback from today's demonstration and develop final recommendations
- Prepare and issue ITAAC Demonstration Report by June 2017
- Continue dialogue with external stakeholders associated with the ITAAC process



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**Open Discussion with
Licensees to Discuss
Preliminary
Recommendations and
Next Steps**



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Public Comment



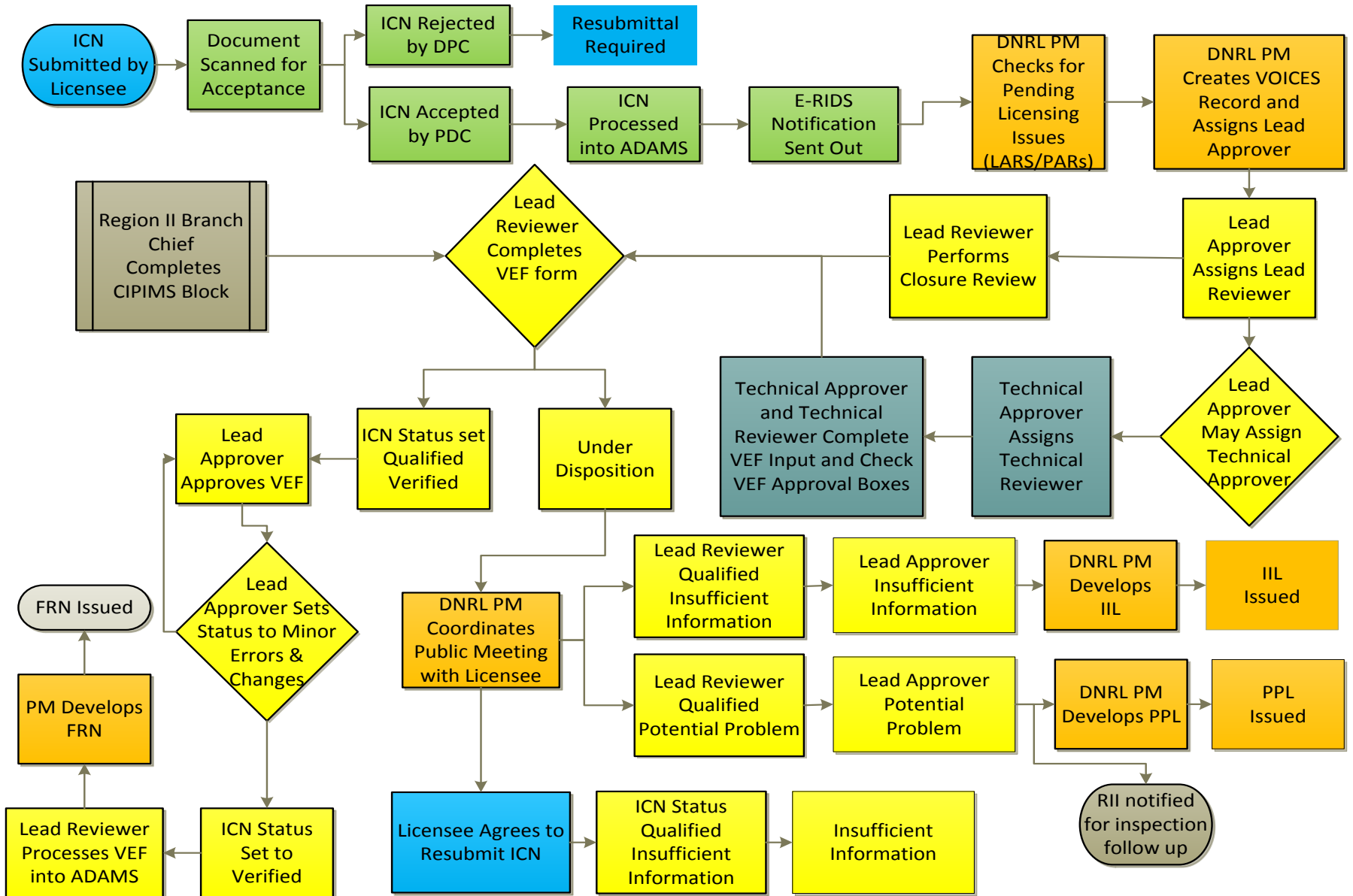
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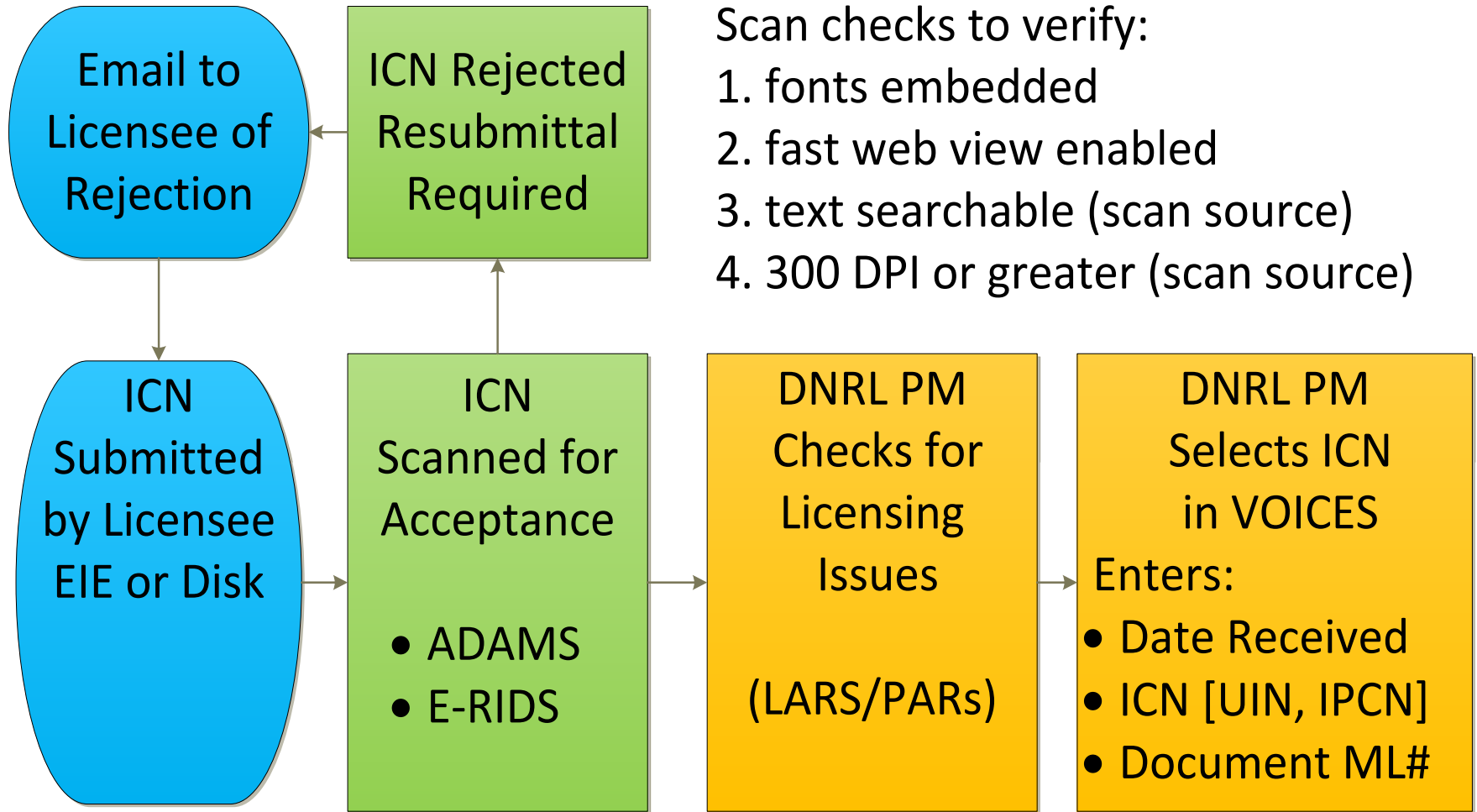
Closing Remarks

Backup slides for handouts

ICN Process Flow



Initiating The Review Process



Scan checks to verify:

1. fonts embedded
2. fast web view enabled
3. text searchable (scan source)
4. 300 DPI or greater (scan source)

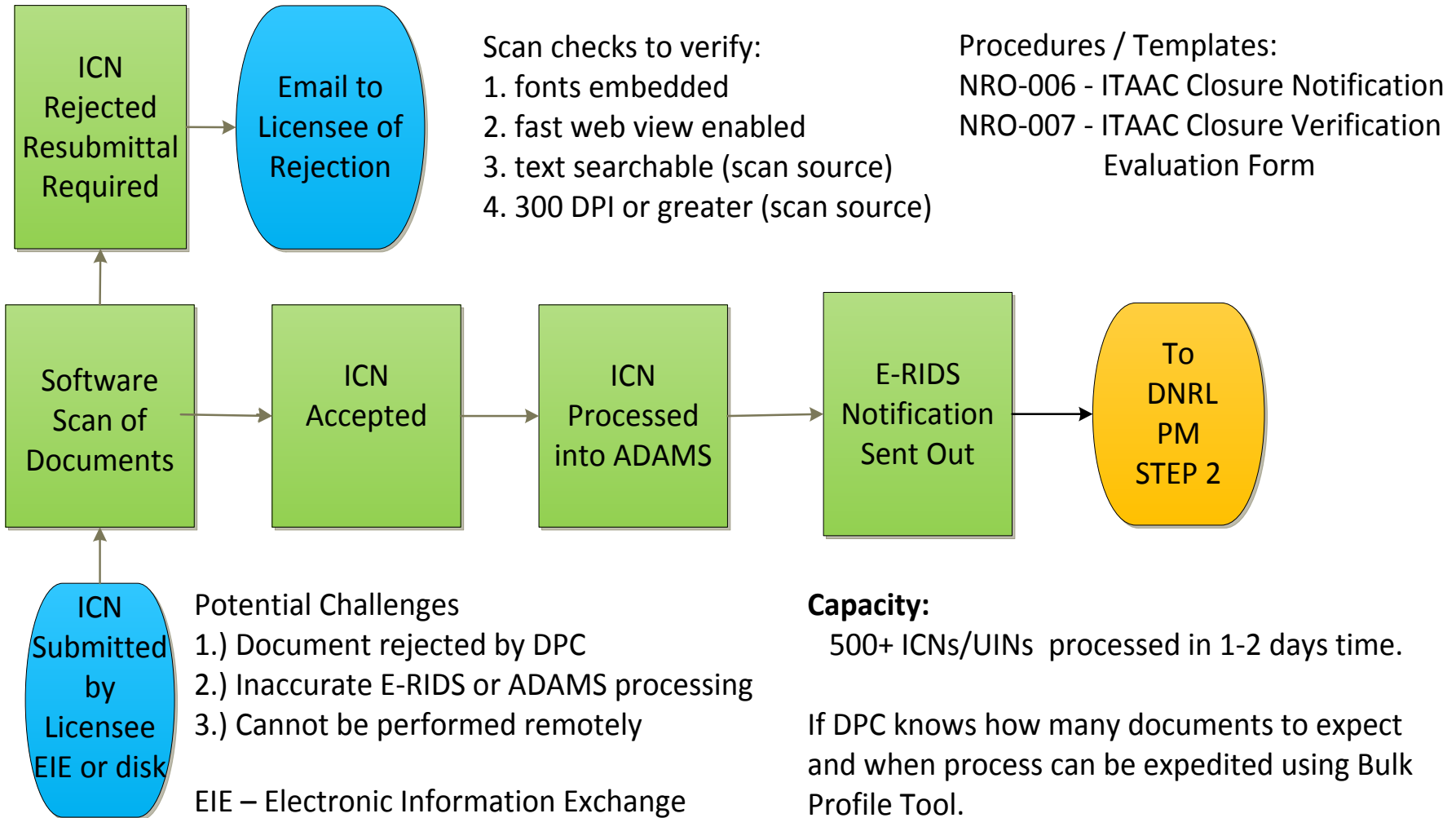
CAPACITY:

300/Day

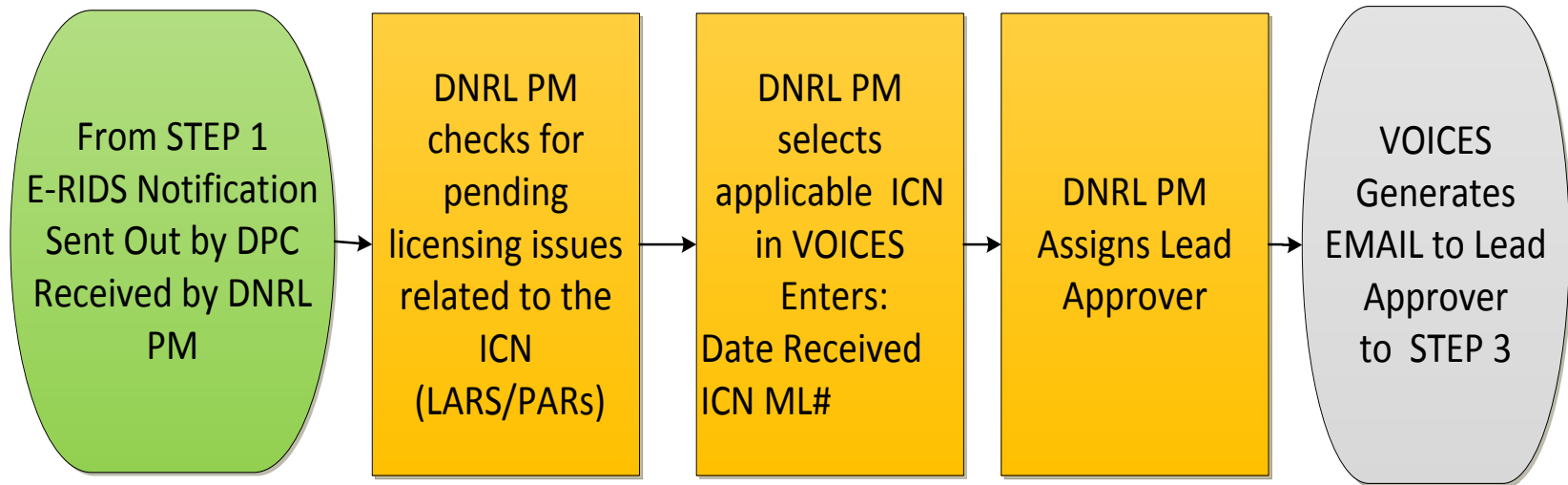
100 PER DAY PER PERSON

DNRL

STEP 1 - Document Processing Center



STEP 2 - Creating ICN Records in VOICES



Capacity:

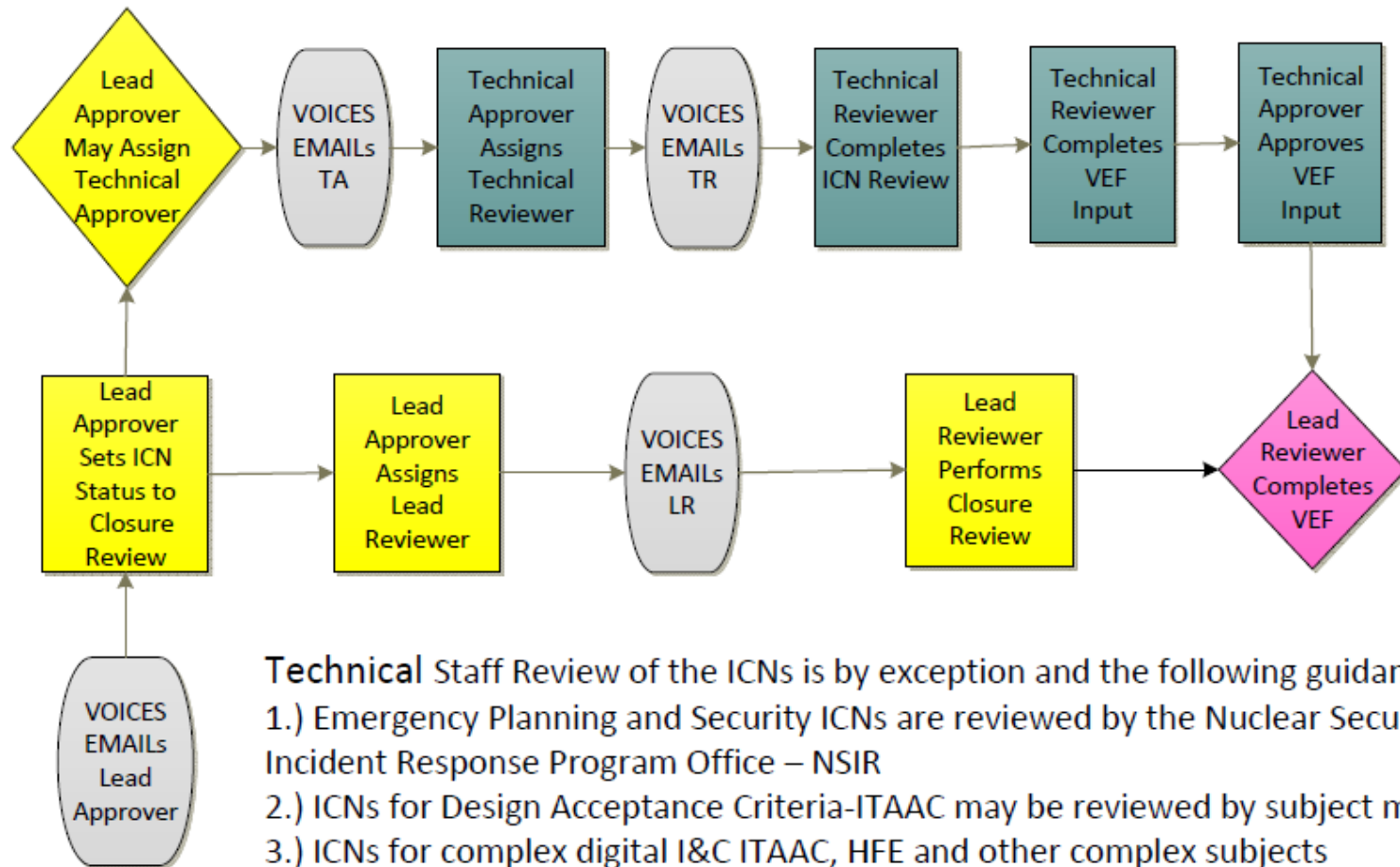
5 minutes per ICN

Approx. 100/day per person

Risk associated with completing this action is very low.

This activity can be performed remotely

STEP 3 - Technical Staff ICN Review

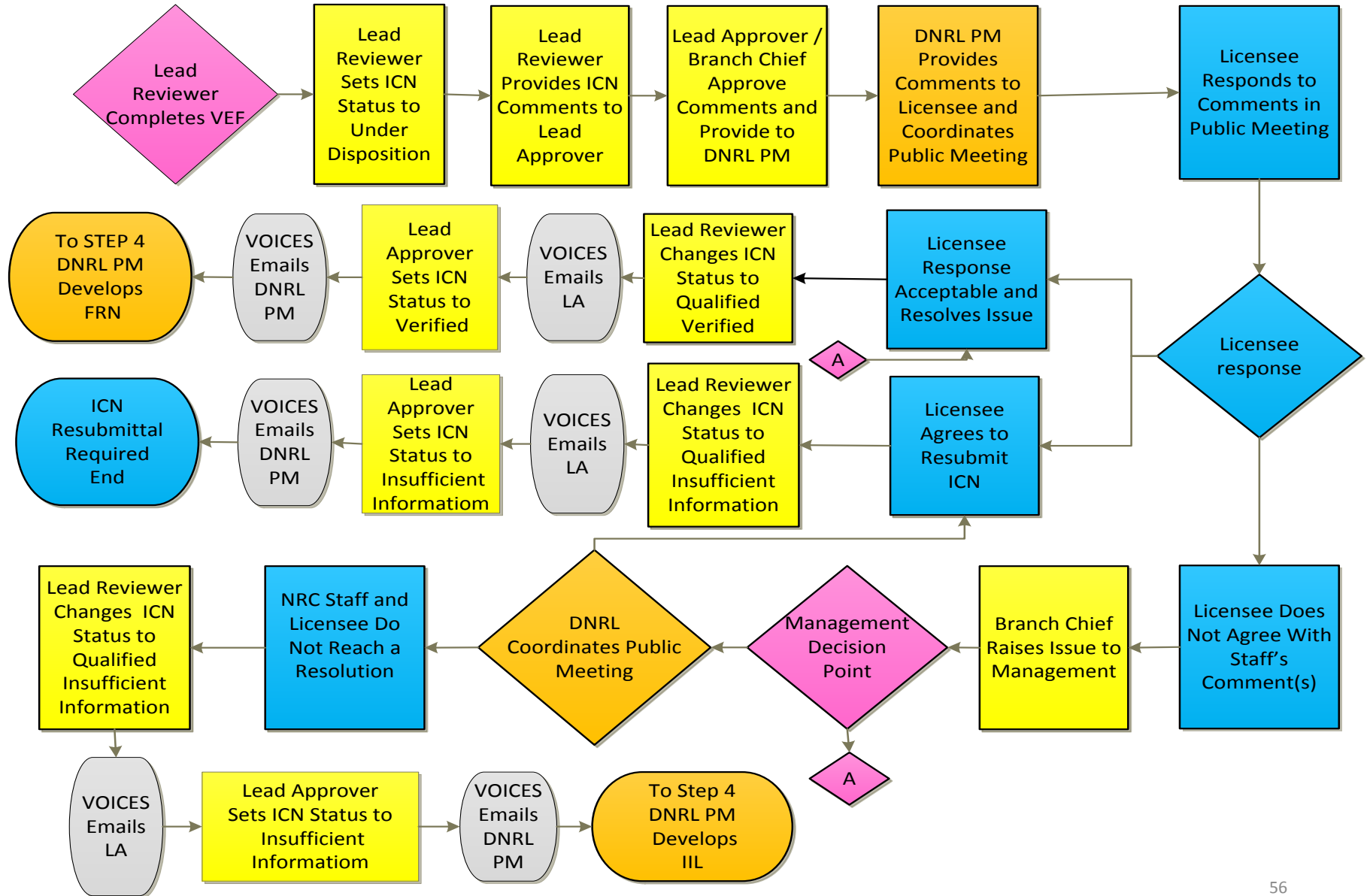


Technical Staff Review of the ICNs is by exception and the following guidance:

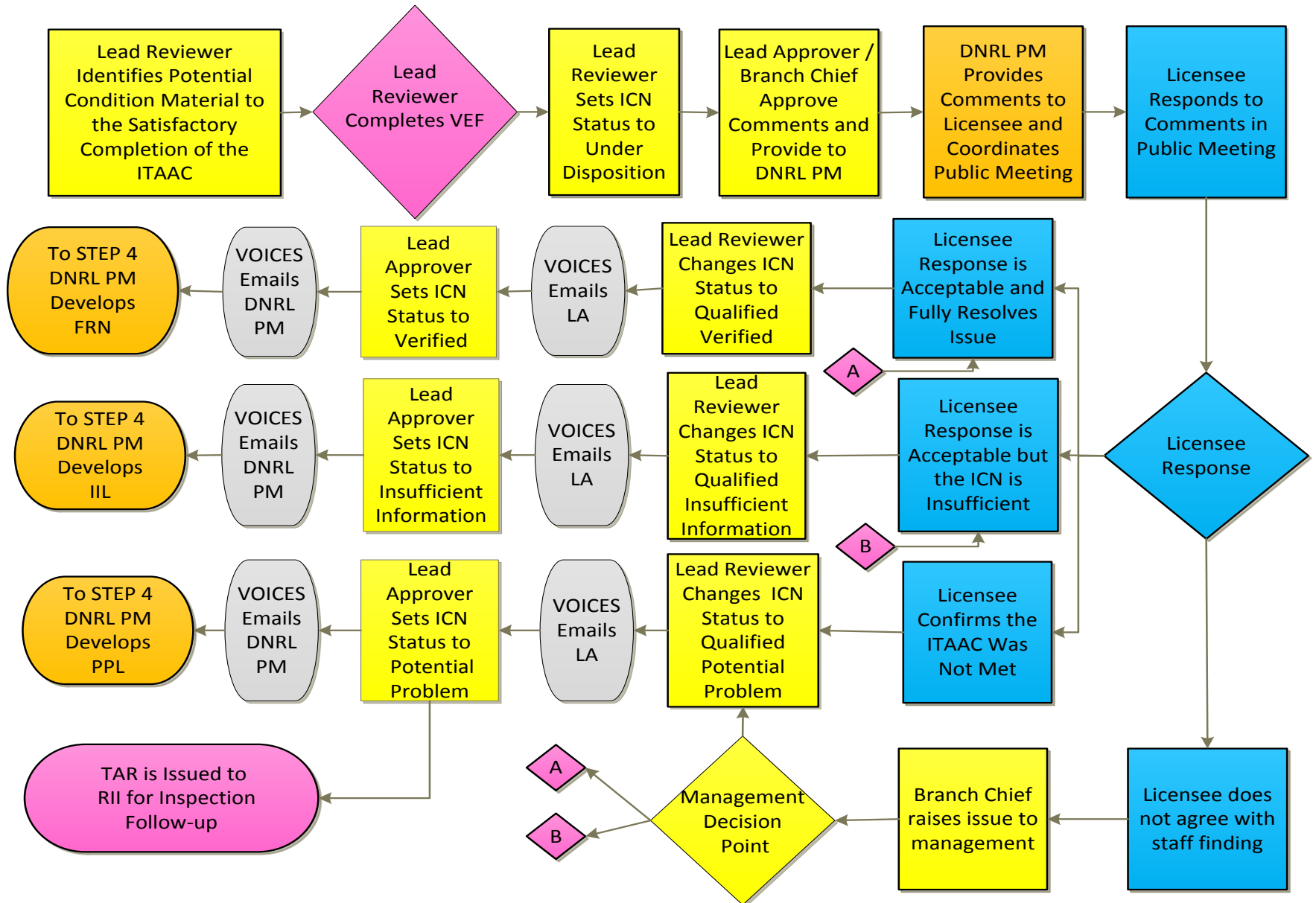
- 1.) Emergency Planning and Security ICNs are reviewed by the Nuclear Security and Incident Response Program Office – NSIR
- 2.) ICNs for Design Acceptance Criteria-ITAAC may be reviewed by subject matter experts
- 3.) ICNs for complex digital I&C ITAAC, HFE and other complex subjects
- 4.) ICNs for complex ITAAC activities may be reviewed by subject matter experts
- 5.) ICNs with substantial technical comment by the lead reviewer

Focus of the technical staff's review is on the completeness and acceptability of the licensee's provided information within the ICN's ITAAC determination basis.

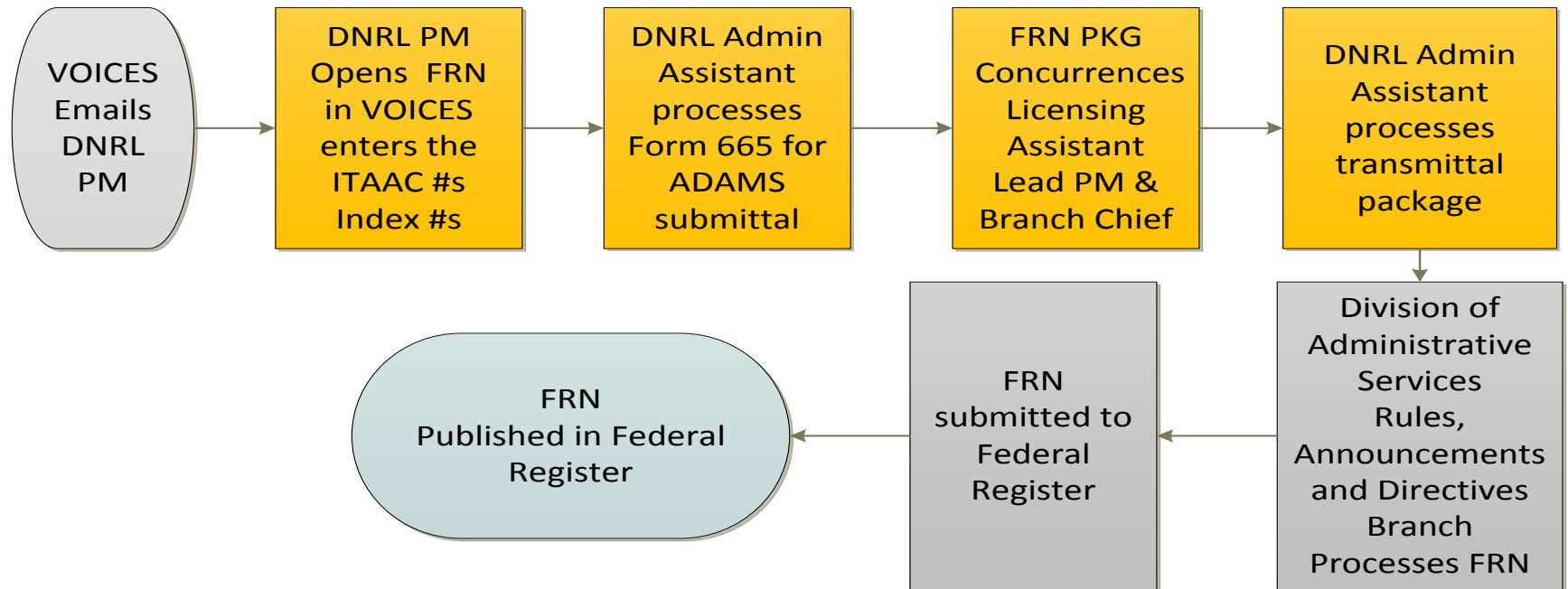
STEP 3 – Insufficient Information



STEP 3 - Potential Problem



STEP 4/5 - Federal Register Notice

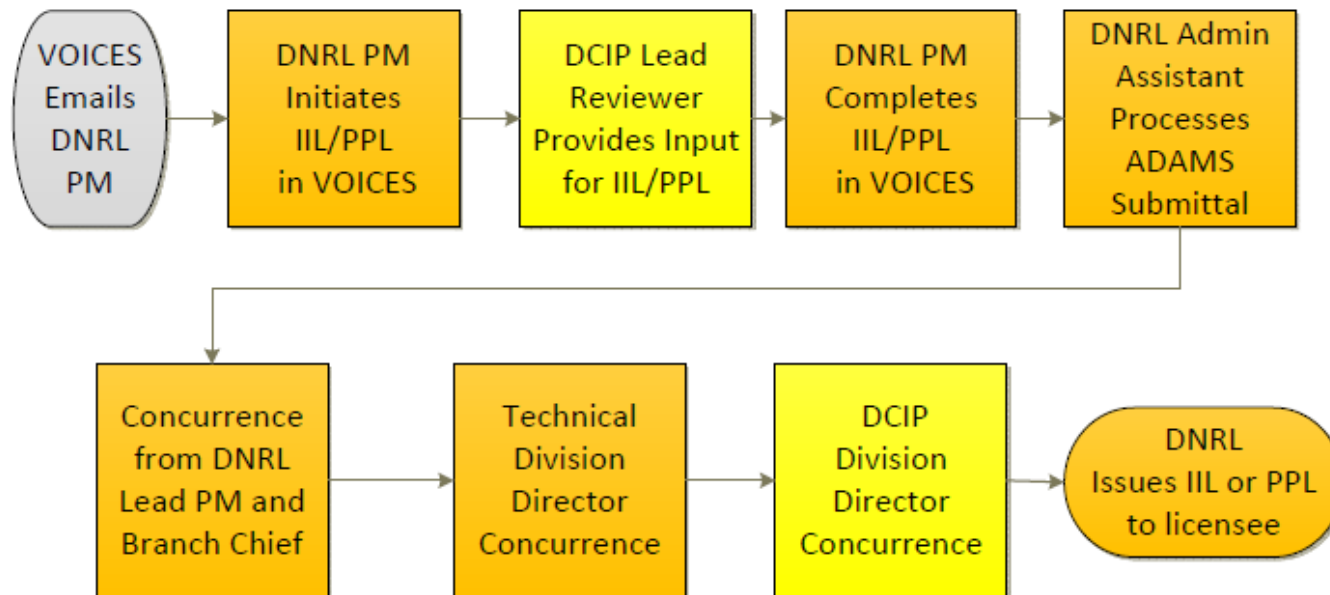


A single FRN can be used to publish the completion of an unlimited number of ITAAC. NRC therefore anticipates only issuing 2 FRNs on a weekly or bi-weekly basis.

The typical time frame to process an FRN, from start to finish, is approximately two weeks. The requirement to issue FRNs for a given UNIT ends on the last day to submit a hearing request (T-150). ICN status's will be updated in the ITAAC status report on the NRC public website.

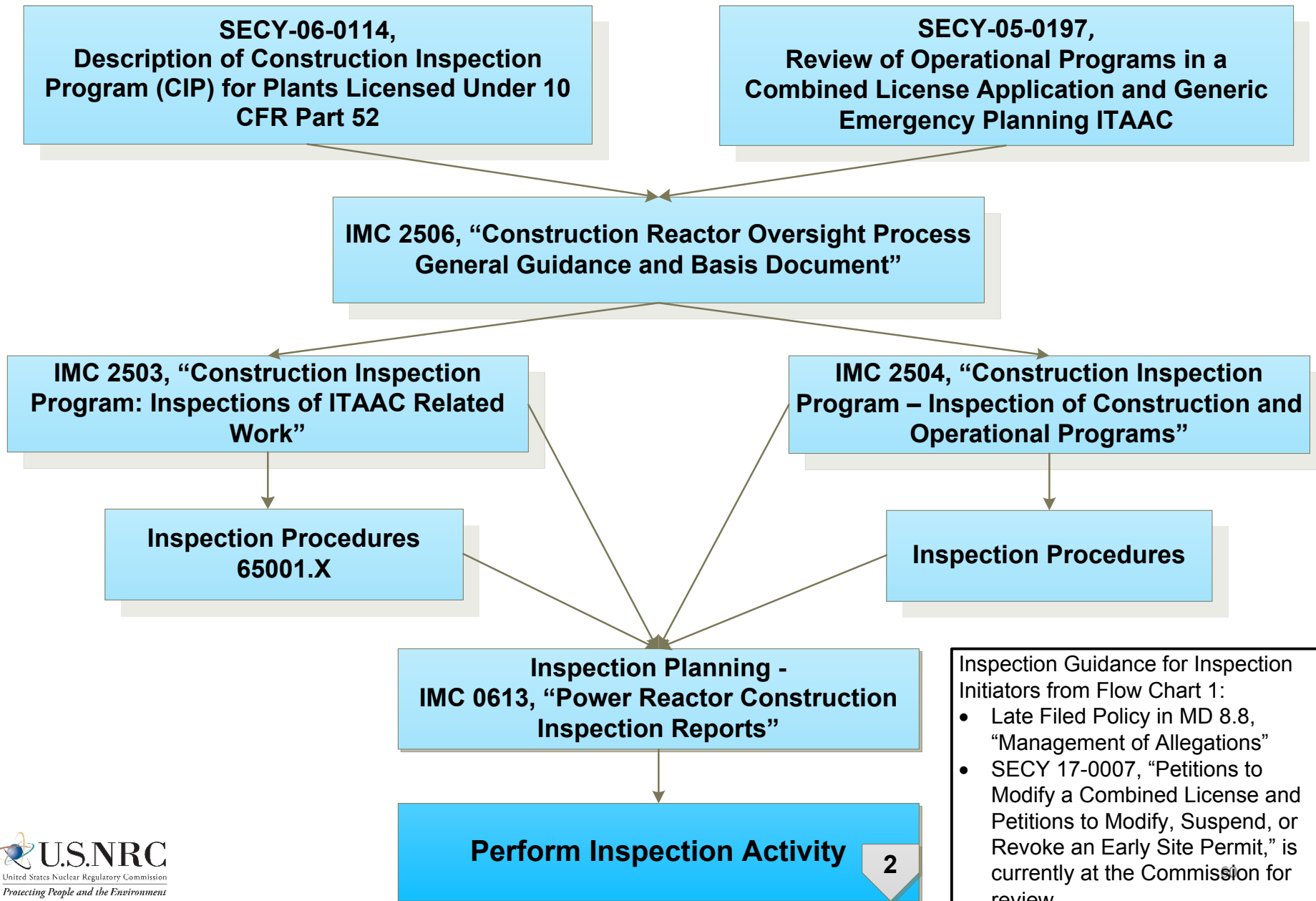
Admin services indicated the NRC is rolling out a more streamlined process in the next year, which will transform the FRN process into a digital paperless process that will improve efficiency and timeliness of the process and can be performed remotely.

STEP 4 - Insufficient Information or Potential Problem Letters



The change to public phone calls to provide routine feedback/comments on UINs and ICNs has increased efficiency and timeliness of the review process. Issuance of a formal insufficient Information or Potential Problem Letter is reserved for resolving an impasse between the staff and licensee and forwards the staff's final position on a given issue.

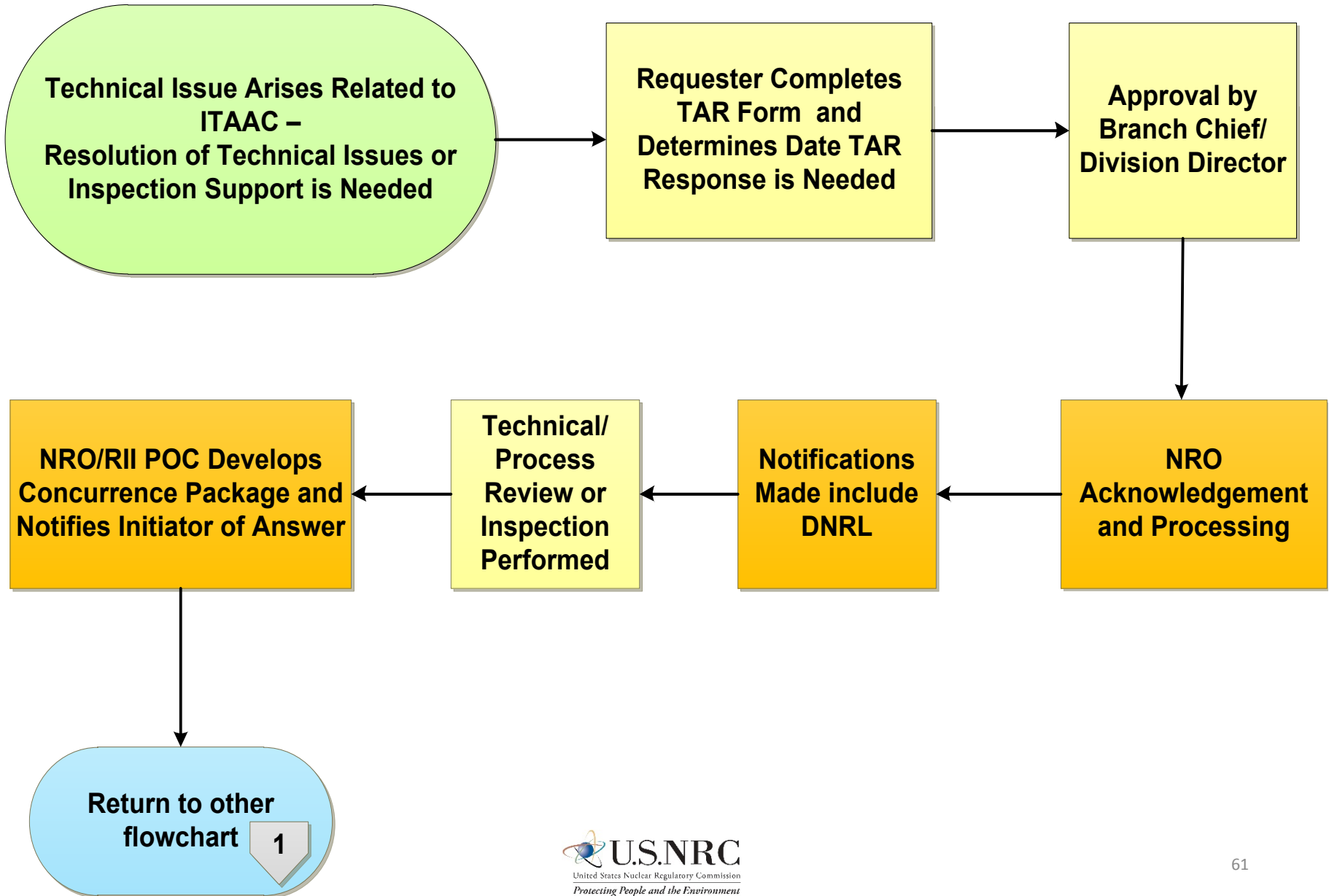
NRC Construction Inspection Guidance



Inspection Guidance for Inspection Initiators from Flow Chart 1:

- Late Filed Policy in MD 8.8, "Management of Allegations"
- SECY 17-0007, "Petitions to Modify a Combined License and Petitions to Modify, Suspend, or Revoke an Early Site Permit," is currently at the Commission for review.

Technical Assistance Request (TAR)



Unresolved Item (URI)

URI - An issue of concern about which more information is required to determine (a) if a performance deficiency exists, (b) if the performance deficiency is More-than-Minor, (c) if the issue of concern constitutes a violation, or (d) the performance deficiency is material to the acceptance criteria of an ITAAC

Additional Information Needed from Licensee

TAR Required for Technical Guidance

Inspector Reviews Information Provided

Return to other flowchart

1

ICN Status:


<u>PM</u>	<u>LA</u>	<u>LR</u>	<u>LA</u>	<u>VOICES</u>
Received	Closure Review	Qualified Verified	Verified	Conditionally Verified
Deleted		Qualified Insufficient Information	Insufficient Information	Unconditionally Verified
		Qualified Potential Problem	Potential Problem	Potential Problem
		Under Disposition	Minor Errors and Corrections	Insufficient Information

UIN Status:


<u>PM</u>	<u>LA</u>	<u>LR</u>	<u>LA</u>	<u>VOICES</u>
Received	UIN Review	Qualified Sufficient Information	Sufficient Information	Sufficient Information
Deleted		Qualified Review Suspended	Review Suspended	Review Suspended
			Minor Errors and Corrections	


Project Managers	+	Add new item											
Approvers													
Reviewers	□	Edit	VOICES ID No.	Docket Number	ITAAC Number	ITAAC Index No.	ITAAC Type	Notification ML Number	ITAAC Review Status	Project Manager	Lead Approver	Lead Reviewer	ITAAC Family
Update ICN/ITAAC Record			7554	5200025	2.6.01.02.ii	580	Non-Targeted	ML17016A021	Conditionally Verified as Completed	Hoellman, Jordan	Welch, Christopher	Kleeh, Edmund	08E
Complete VEF			7293	5200025	E.3.8.05.01.01	844	Targeted	ML13276A034	Federal Register Notice Published	Patel, Chandu	Anderson, Brian	Jardaneh, Mahmoud	02C
Complete UINC			7269	5200025	E.3.8.05.01.01	844	Targeted	ML13259A026	Review Suspended	Patel, Chandu	Anderson, Brian	Jardaneh, Mahmoud	02C
			7226	5200025	E.2.5.04.05.05.01	874	Targeted	ML13032A592	Federal Register Notice Published	Patel, Chandu	Kowal, Mark	Kleeh, Edmund	01C
			7225	5200025	E.2.5.04.05.05.01	874	Targeted	ML12328A160	Insufficient Info Letter Issued	Patel, Chandu	Kowal, Mark	Kleeh, Edmund	01C
ITAAC Closure Documents			6226	5200025	3.3.00.14	820	Targeted		Not Received	Patel, Chandu			17E
			6225	5200025	3.3.00.02a.ii.b	765	Targeted		Not Received	Patel, Chandu			01A
Reports			6224	5200025	3.3.00.02a.i.c	762	Targeted		Not Received	Patel, Chandu			01F
Manage Data			6223	5200025	3.3.00.02a.ii.d	767	Targeted		Not Received	Patel, Chandu			01A
FAQ			6222	5200025	3.3.00.07aa	789	Targeted		Not Received	Patel, Chandu			09A
Help/Guidance			6221	5200025	3.3.00.07ab	790	Targeted		Not Received	Patel, Chandu			09A
View ICNs			6220	5200025	2.7.06.05	730	Non-Targeted		Not Received	Patel, Chandu			10A
View UINs			6219	5200025	2.7.02.05	706	Non-Targeted		Not Received	Patel, Chandu			10A
			6218	5200025	2.7.02.04	705	Non-Targeted		Not Received	Patel, Chandu			12D
			6217	5200025	2.7.03.02b	709	Non-Targeted		Not Received	Patel, Chandu			12X
			6216	5200025	2.6.09.01	641	Targeted		Not Received	Patel, Chandu			17X
			6215	5200025	2.7.01.03a	680	Non-Targeted		Not Received	Patel, Chandu			12B
			6214	5200025	2.7.01.02b	679	Non-Targeted		Not Received	Patel, Chandu			12F
			6213	5200025	2.6.03.10	619	Targeted		Not Received	Patel, Chandu			08F
			6212	5200025	2.6.06.01.iii	639	Non-Targeted		Not Received	Patel, Chandu			08A
			6211	5200025	2.6.09.09	651	Targeted		Not Received	Patel, Chandu			17D
			6210	5200025	2.6.09.07b	649	Targeted		Not Received	Patel, Chandu			17A
			6209	5200025	2.6.09.08	650	Targeted		Not Received	Patel, Chandu			17C
			6208	5200025	2.6.04.01	621	Non-Targeted		Not Received	Patel, Chandu			08A
			6207	5200025	2.6.05.03.ii	631	Non-Targeted	ML16313A070	Conditionally Verified as Completed	Hoellman, Jordan	Welch, Christopher	Gaslevic, James	08F
			6206	5200025	2.5.05.02.ii	566	Non-Targeted		Not Received	Patel, Chandu			06E
			6205	5200025	2.6.03.05b	611	Targeted		Not Received	Patel, Chandu			08D
			6204	5200025	2.6.01.03b	583	Non-Targeted		Not Received	Patel, Chandu			09X
			6203	5200025	2.5.02.06a.i	529	Targeted		Not Received	Patel, Chandu			10D
			6202	5200025	2.5.01.02c.ii	509	Non-Targeted		Not Received	Patel, Chandu			10D


ITAAC in CIPIMS





Inspection Complete


Edit Item


Version History




Manage Permissions


Delete Item


Alert Me

Manage

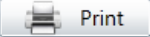
Actions

PrePlan Inspections	Title	VOG3-2.2.03.08c.vi.01-AP1000
Plan Site Inspections	Work Site	VOG3
Input Inspection Results	IMC Number	MC2503
Management Reports/Views	DCD	AP1000
Manage Data	ITAAC	2.2.03.08c.vi.01- Reference ITAAC: No
FAQ	Program	
Project Documents	Targeted	Yes
References	Owner Branch	Construction Projects Branch 4
 Recycle Bin	Design Acceptance Criteria	
 All Site Content	Inspection Type	Standard
	Design Commitment	8.c) The PXS provides RCS makeup, boration, and safety injection during design basis events.
	Inspections, Tests, And Analyses	vi) Inspections of each of the following tanks will be conducted: 1. CMTs
	Acceptance Criteria	vi) The calculated volume of each of the following tanks is as follows: 1. CMTs ≥ 2487 ft3
	Seq No	189
	ITAAC Family	06A
	Display OUO Notice	
	Site Specific Notes	
	Related Documents	
	Inspection Complete	Yes

65

CIPIMS Inspection Input

Inspection Report Item



Title: VOG3-2.2.03.08c.vi.01-AP1000

Report Number: 05200025 : 2016002

Outcome Indicator: Inspection Item Only

IMC Used: MC2503

Event Or CDR Follow Up



IMC 2503 (ITAAC) Entries

Inspection Item Details

Scope:

The inspectors performed an inspection of vendor documentation, reviewed calculations, and reviewed acceptance information associated with the core makeup tanks (CMTs) for Vogtle Unit 3 to determine whether the volume of both CMTs met the minimum volume established in the Vogtle Unit 3 UFSAR, Section 5.4.13 "Core Makeup Tank" and the Vogtle Unit 3 COL, Appendix C, Table 2.2.3-4, "Inspections, Tests, Analyses, and Acceptance Criteria."

The inspectors reviewed documentation related to the volume verification to determine whether:

CIPIMS Summary

CIPIMS > CIPIMSReports > comprehensiveitaacreport

Actions   **1** of 1   Find Next 100% 

ITAAC Progress/Findings

INPUT PARAMETERS Unit: VOG3 ITAAC: 2.2.03.08c.vi.01

Report Items associated with ITAAC: 2.2.03.08c.vi.01 for WorkSite VOG3		
Report Number	Scope	Outcome Indicator
2016002	<p>The inspectors performed an inspection of vendor documentation, reviewed calculations, and reviewed acceptance information associated with the core makeup tanks (CMTs) for Vogtle Unit 3 to determine whether the volume of both CMTs met the minimum volume established in the Vogtle Unit 3 UFSAR, Section 5.4.13 "Core Makeup Tank" and the Vogtle Unit 3 COL, Appendix C, Table 2.2.3-4, "Inspections, Tests, Analyses, and Acceptance Criteria."</p> <p>The inspectors reviewed documentation related to the volume verification to determine whether:</p> <ul style="list-style-type: none"> critical attributes of the CMT were identified and measured; the method and controls used by the licensee to verify that the as-built dimensions conformed to the licensing basis were adequate; the as-built tank volume and dimensions were in accordance with the final design, the ITAAC, and UFSAR; equipment used for measurement was properly maintained and calibrated; equipment accuracy was within procedural specifications; and the nonconformances were resolved and their dispositions had adequate technical bases. <p>In addition, the inspectors performed an independent calculation of the volume using the as-built dimensions of the CMTs.</p>	Inspection Item Only
1 Total Report Items for ITAAC		

Public Inspection Report

- <https://www.nrc.gov/docs/ML1621/ML16210A448.pdf>

1A02 (Unit 3) ITAAC Number 2.2.03.08c.vi.01 (189) / Family 06A

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.08c.vi.01 (189). The inspectors used the following NRC IPs/sections to perform this inspection:

- 65001.06-02.04 - Testing and Verification
- 65001.A.02.04 - Review As-built Deviations/Nonconformance
- 65001.F-02.01-Design Document Review
- 65001.F-02.02-Fabrication Records Review

The inspectors performed an inspection of vendor documentation, reviewed calculations, and reviewed acceptance information associated with the CMTs for Vogtle Unit 3 to determine whether the volume of both CMTs met the minimum volume established in the Vogtle Unit 3 Updated Final Safety Analysis Report (UFSAR), Section 5.4.13 "Core Makeup Tank" and the Vogtle Unit 3 Combined License (COL), Appendix C, Table 2.2.3-4, "Inspections, Tests, Analyses, and Acceptance Criteria."

The inspectors reviewed documentation related to the volume verification to determine whether:

- critical attributes of the CMT were identified and measured;

8

- the method and controls used by the licensee to verify that the as-built dimensions conformed to the licensing basis were adequate;
- the as-built tank volume and dimensions were in accordance with the final design, the ITAAC, and UFSAR;
- equipment used for measurement was properly maintained and calibrated;
- equipment accuracy was within procedural specifications; and
- the nonconformances were resolved and their dispositions had adequate technical bases.

In addition, the inspectors performed an independent calculation of the volume using the as-built dimensions of the CMTs.