



# Briefing on Results of the Agency Action Review Meeting

Commission Meeting  
June 20, 2019



# Agency Action Review Meeting Objectives

- Review NRC actions taken for licensees with performance issues
- Review Nuclear Materials and Waste Safety Program Performance and Trends
- Review effectiveness of the Reactor Oversight Process and the Construction Reactor Oversight Process

# Agenda

- Nuclear Materials and Waste Safety Program Performance and Trends – John Lubinski
- Reactor Oversight Process Self-Assessment Results – Billy Dickson
- Construction Reactor Oversight Process Self-Assessment Results – Victor Hall

# **Nuclear Materials and Waste Safety Program Performance**

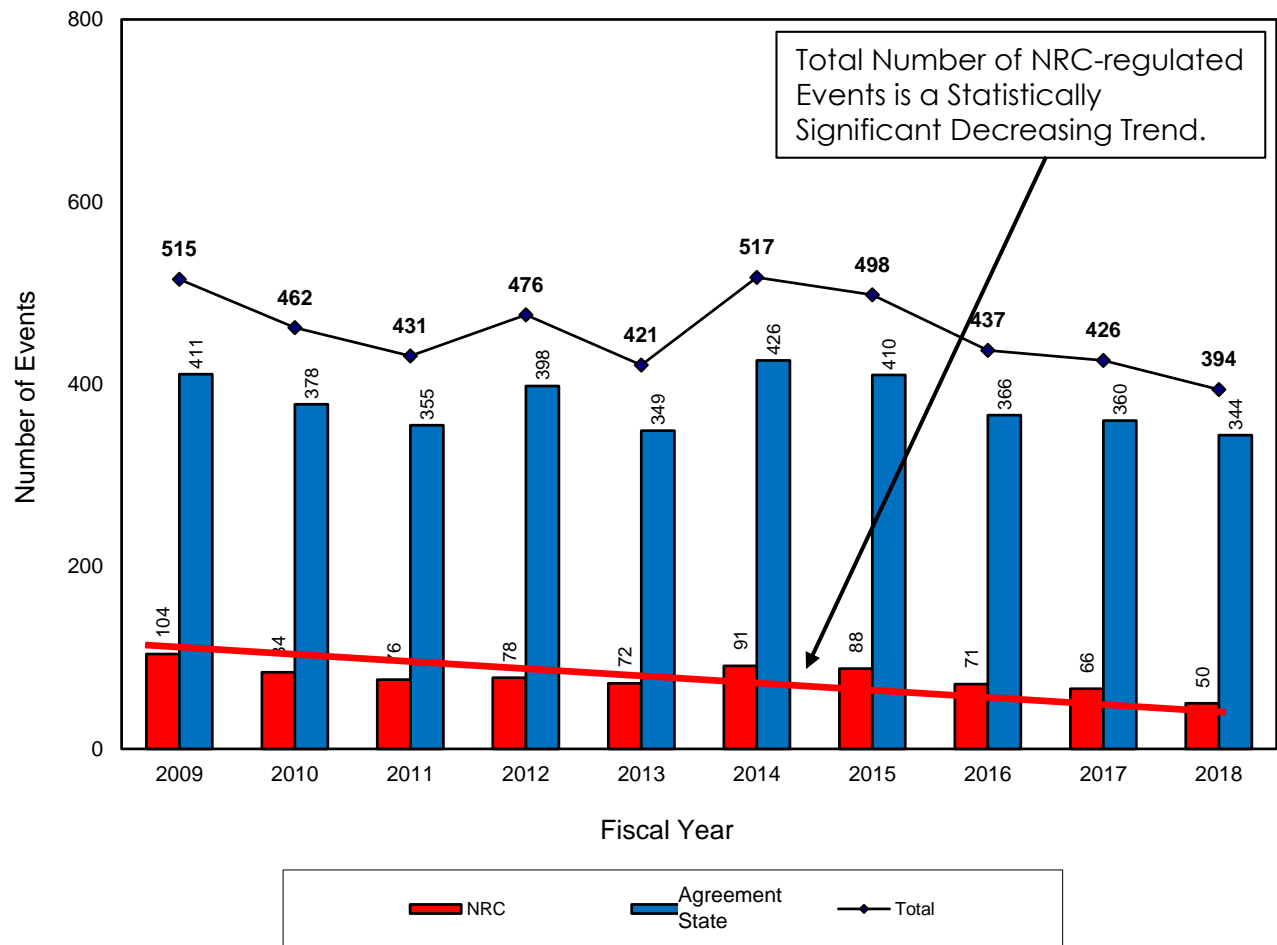
John Lubinski, Director  
Office of Nuclear Material Safety and  
Safeguards

# Utilizing a Robust Performance Evaluation Process

- Systematic review to identify:
  - Licensee performance issues
  - Operational performance trends
  - Regulatory program or policy changes

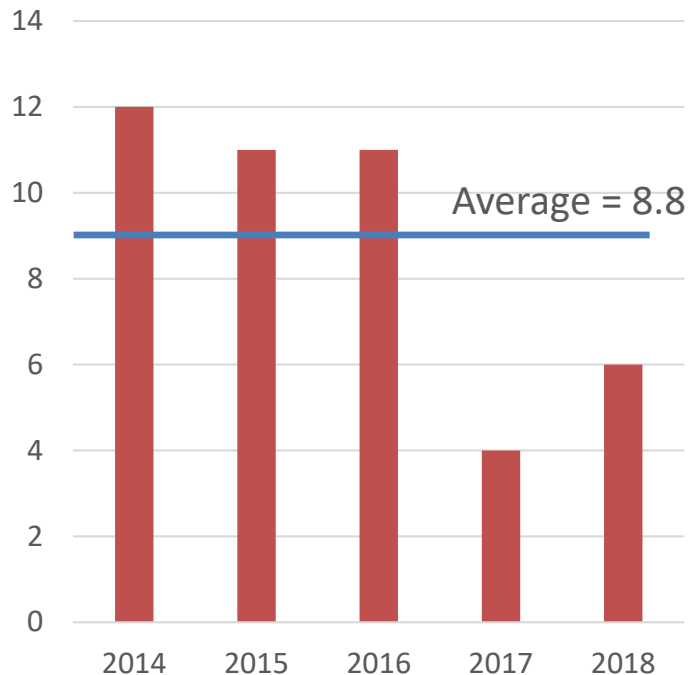
# Trends Analysis Indicates Improved Performance

- Declining number of events
- Event numbers small compared to the millions of uses

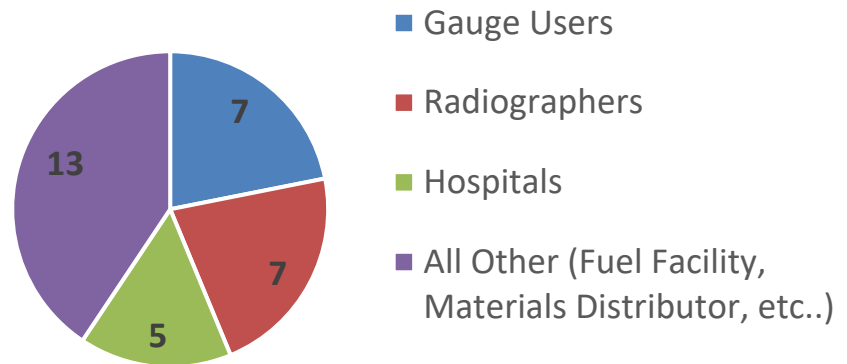


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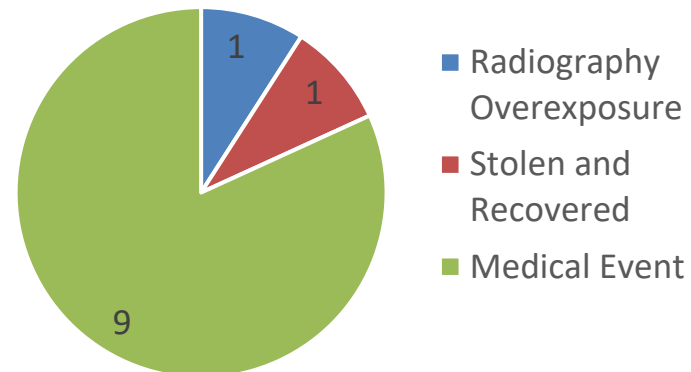
## Fuel Cycle Events per Year



## FY 2018 Escalated Enforcement Actions



## FY 2018 Abnormal Occurrences



# Reviewing and Evaluating Strategic Performance Measures on an Ongoing Basis

Safety Performance Measures	Security Performance Measures
Prevent radiation exposures that significantly exceed regulatory limits	Prevent sabotage, theft, diversion, or loss of risk significant quantities of radioactive material
Occurrences in FY 2018: 1 (Target $\leq 3$ )	Occurrences in FY 2018: 1 (Target = 0)

- Strategic performance measures will be considered since they include AO occurrences as its criteria



# Evaluating Medical Events for Program Enhancements

- NRC Staff and the ACMUI both performed studies related to medical event causes.
- The NRC study was inconclusive on whether medical events were directly caused by inadequate training.
- The ACMUI study identified two themes:
  - A time out immediately prior to an administration may help
  - A lack of recent experience appears to be a contributing factor
- The staff will develop an Information Notice on the best practices to prevent medical events

# Summary of Program Performance

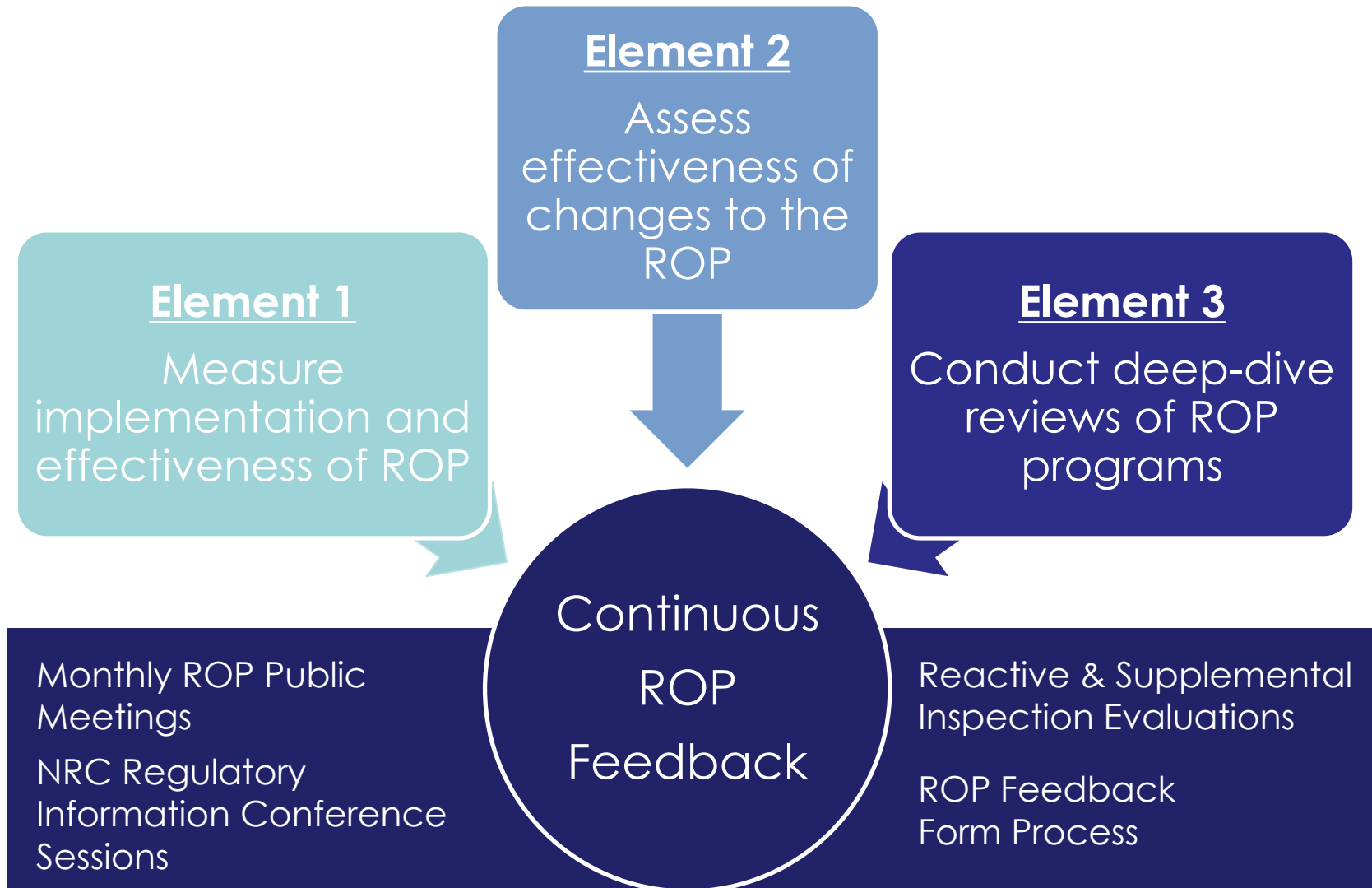
- The Nuclear Materials and Waste Safety Program is effective at protecting public health and safety
- No significant event trends or issues that warrant significant regulatory actions or policy changes were identified
- The one event exceeding a security goal target is not indicative of a programmatic challenge.

# **Reactor Oversight Process Self-Assessment**

Billy Dickson, Acting Deputy Director  
Division of Inspection and Regional  
Support

Office of Nuclear Reactor Regulation

# ROP Self-Assessment Program Provides Continuous ROP Feedback



# CY 2018 ROP Self-Assessment Confirmed That The ROP Is Effective

	Self-Assessment Elements	2018	Results
<b>Element 1</b>	Metrics	Yes	25 of 26 ROP metrics were Green 1 Red metric with action plan
	Program Evaluations	Yes	Complete - All ROP Program Areas Effective
<b>Element 2</b>	Monitor ROP Revisions	Yes	Monitored
	Effectiveness Reviews	Yes	3 Reviews Completed – Changes Were Effective
<b>Element 3</b>	Regional Peer Reviews	Yes	Region III – Implementing ROP per Governance Documents
	Focused Assessments	Yes	Emergency Preparedness SDP - Effective
	Baseline IP Assessments	Yes	Complete – Baseline Inspection Procedures Are Effective

# Transforming ROP Self-Assessment Ensures Sustained ROP Effectiveness

- Prioritize ROP enhancement
- Conduct ROP self-assessment holistic review
- SECY Info Paper
- Implement changes in time for CY 2020

Self-Assessment Elements	2018	2019
Metrics	Yes	Yes
Program Evaluations	Yes	Yes
Monitor ROP Revisions	Yes	Deferred
Effectiveness Reviews	Yes	Yes
Regional Peer Reviews	Yes	Not Required
Focused Assessments	Yes	Deferred
Baseline IP Assessments	Yes	Not Required

# ROP Enhancement Project Maintains and Improves on ROP Strengths

- 99 Recommendations from NRC staff and Industry
- Enhance ROP to be better risk-informed and performance-based
- SECY Paper Major Themes:
  - Improve NRC Response to White Findings
  - Optimize the Baseline Inspection Program
  - Improve the Significance Determination Process

# Construction Reactor Oversight Process 2018 Self-Assessment (cROP)



Photo Courtesy of Southern Nuclear Operating Company

**Victor Hall, Branch Chief**

Construction Inspection Program Branch  
Office of New Reactors



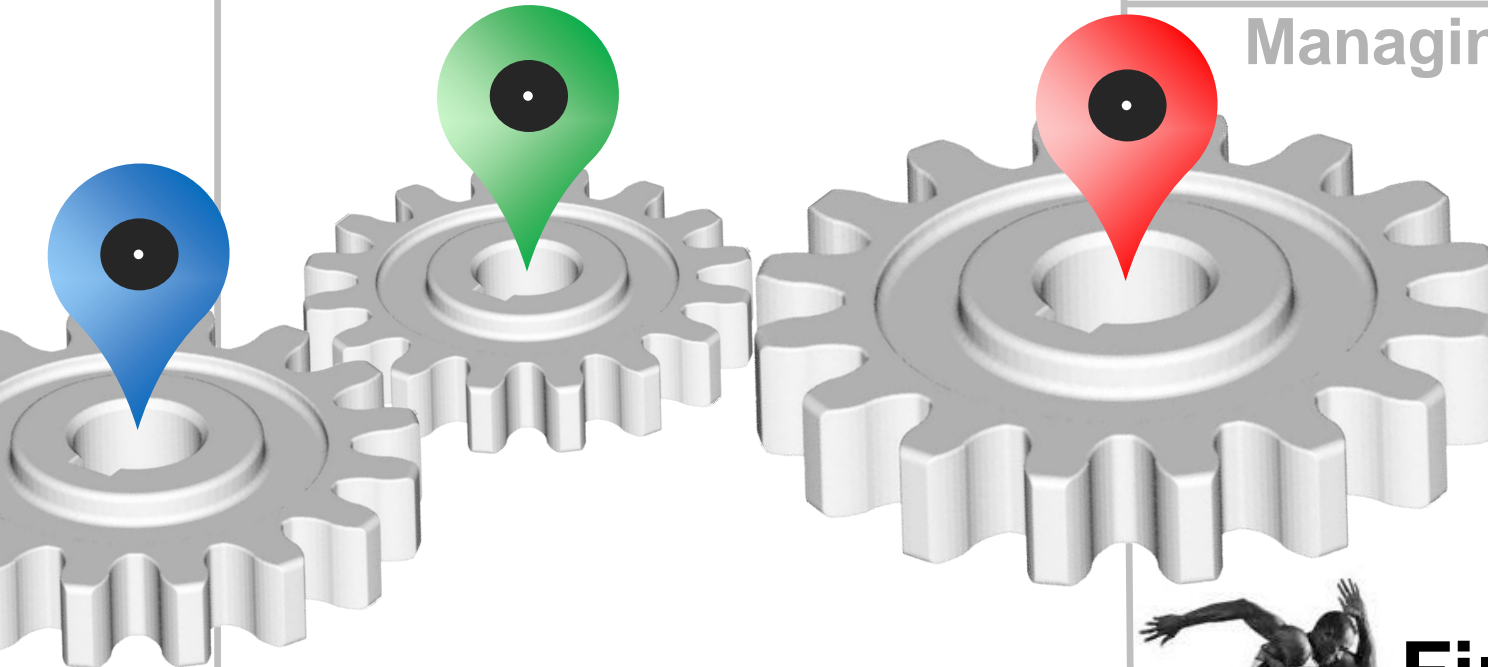
# Reaffirm Commitment to our Mission

**Vogtle Readiness Group**

Licensing & Oversight

 **cROP**

Managing Resources



**ITAAC Closure**

Demonstration Complete



**First Ever**  
**52.103(g)**

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- New Reactor Construction
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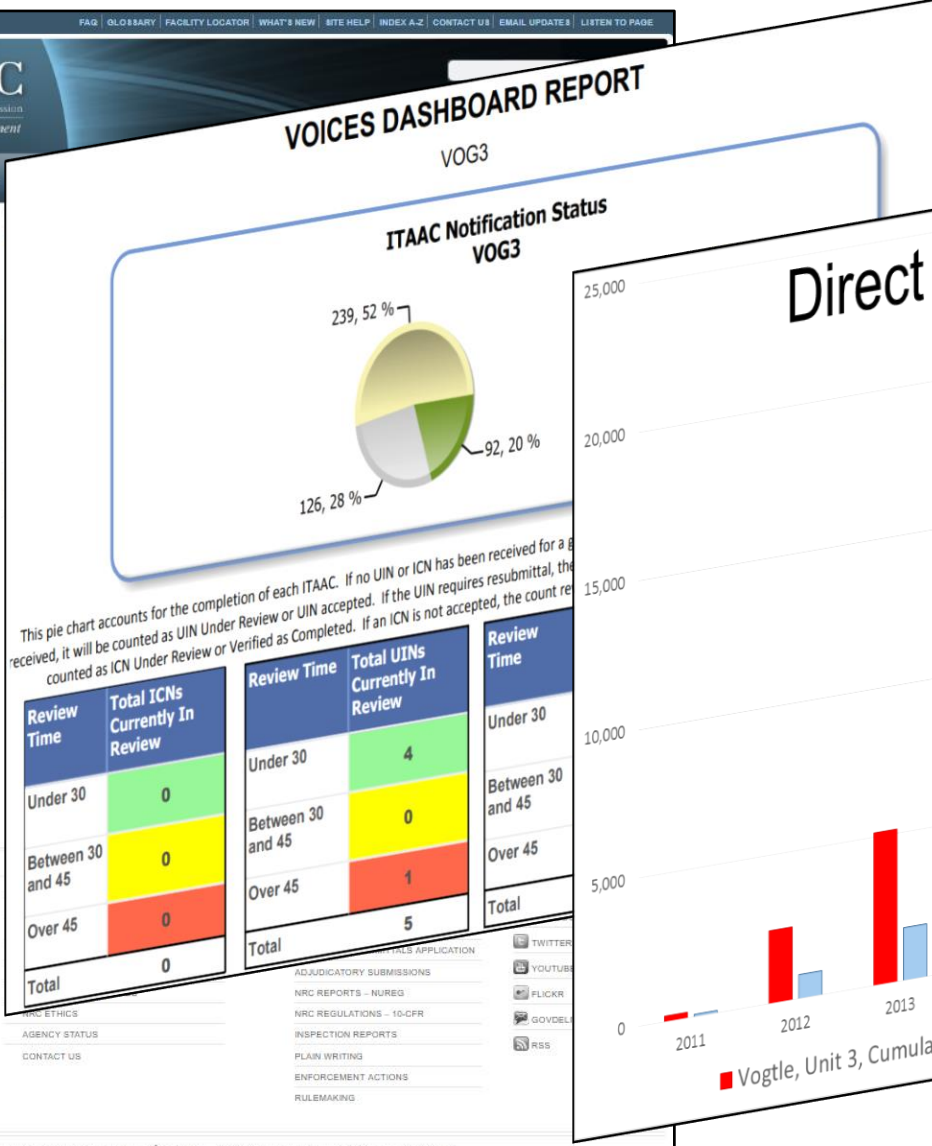
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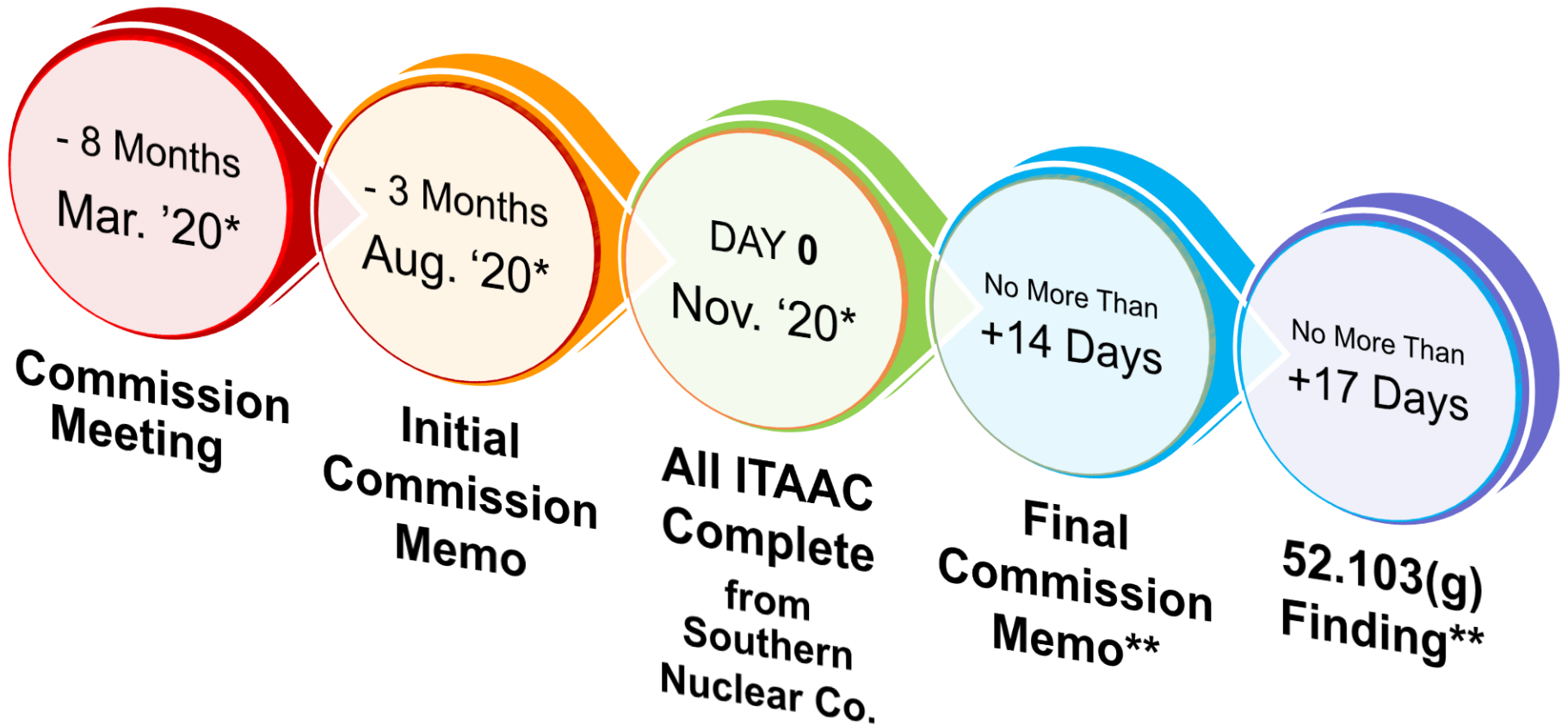
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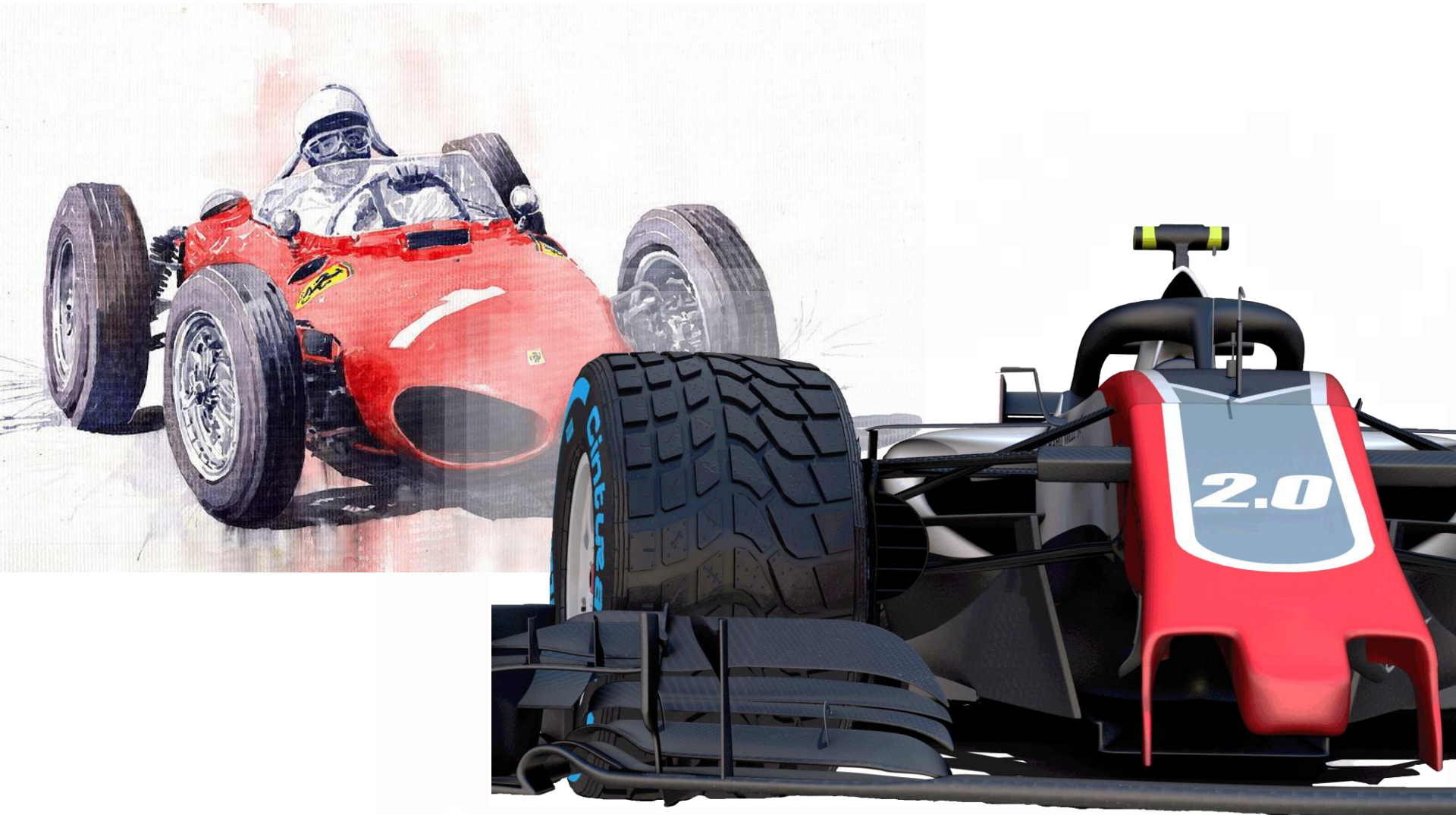
# Modernize our Decision Making



\* Dates estimated based upon Unit 3 fuel load of November 23, 2020

\*\* Assumes all prerequisites for Final Commission Memorandum and 52.103(g) Finding are met

# Developing cROP 2.0



# Conclusion

NRC staff affirmed the appropriateness of agency actions

# List of Acronyms

- AARM – Agency Action Review Meeting
- ACMUI – Advisory Committee on the Medical Uses of Isotopes
- AO – Abnormal Occurrence
- cROP – Construction Reactor Oversight Process
- IP – Inspection Procedure
- IMC – Inspection Manual Chapter
- ITAAC – Inspections, Tests, Analyses, and Acceptance Criteria
- NMED – Nuclear Materials Event Database

# List of Acronyms (cont.)

- NMSS – Office of Nuclear Material Safety and Safeguards
- NRC – U.S. Nuclear Regulatory Commission
- NRR – Office of Nuclear Reactor Regulation
- ROP – Reactor Oversight Process
- SDP – Significance Determination Process
- VRG – Vogtle Readiness Group