



OPERATOR LICENSING PROGRAM

Commission Meeting
January 13, 2017



Agenda

- Initial operator licensing examination process
- Administration of the initial AP1000 examinations
- Regional implementation of operator licensing at existing and new build plants

Robust Operator Licensing Program Implementation Goals

- **Consistent** implementation of the examination process
- Inter-office **cooperation** and **agility** to execute operator licensing
- Focus on improvements to gain **efficiencies** in operator licensing

Achieving More Objective Safety-Focused Program

- Written examination scope increased to include heat transfer, fluid flow, and thermodynamics as a TMI follow-up
- Overall written examination passing score increased from 70% to 80% as a TMI follow-up

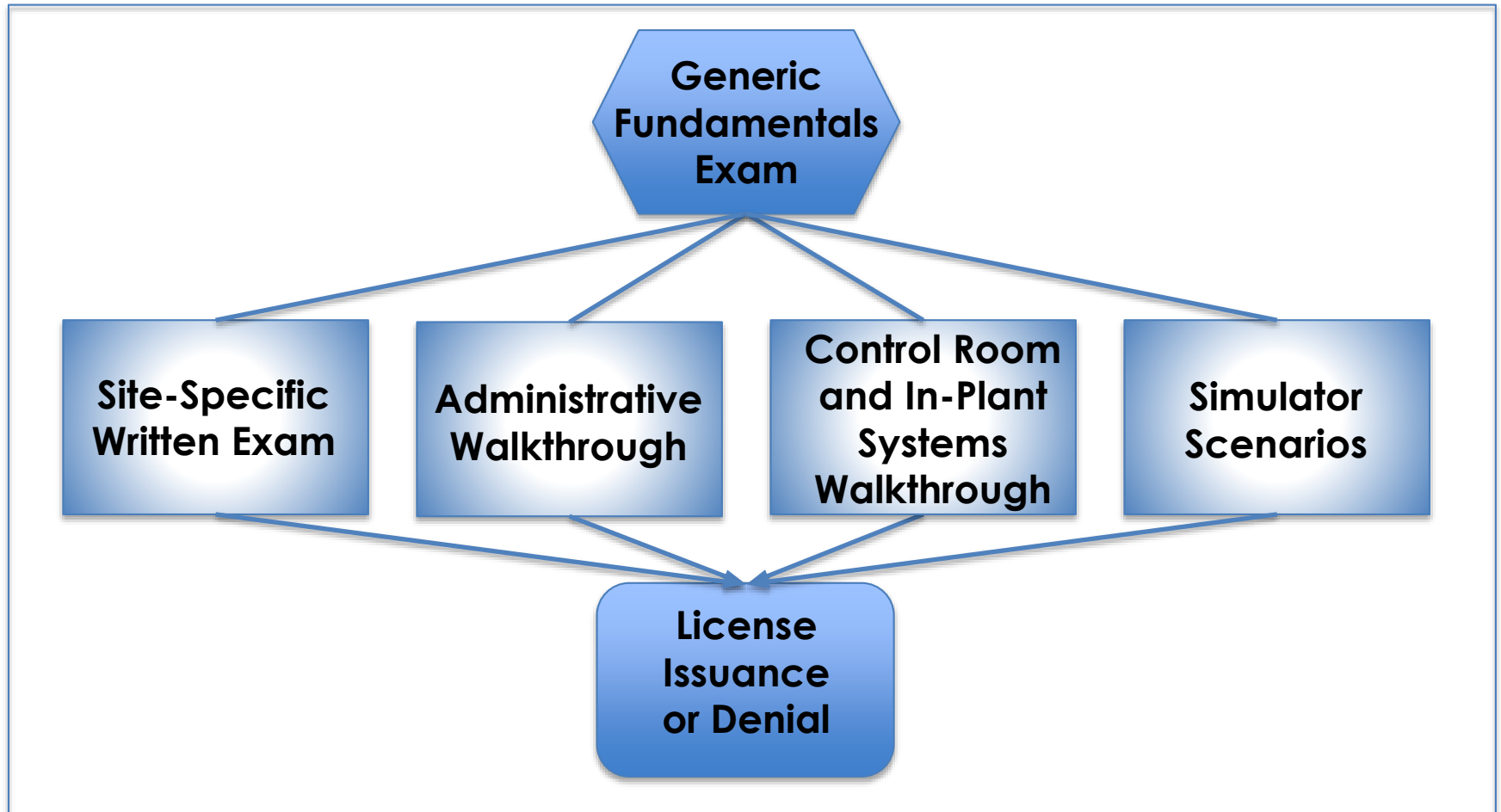
Achieving More Objective Safety-Focused Program

- Knowledge and abilities catalogs created to ensure a content-valid, performance-based examination
- Commission-approved, industry-accredited SAT programs provide improved basis for OL process
- GFEs administered separately from the site-specific examination

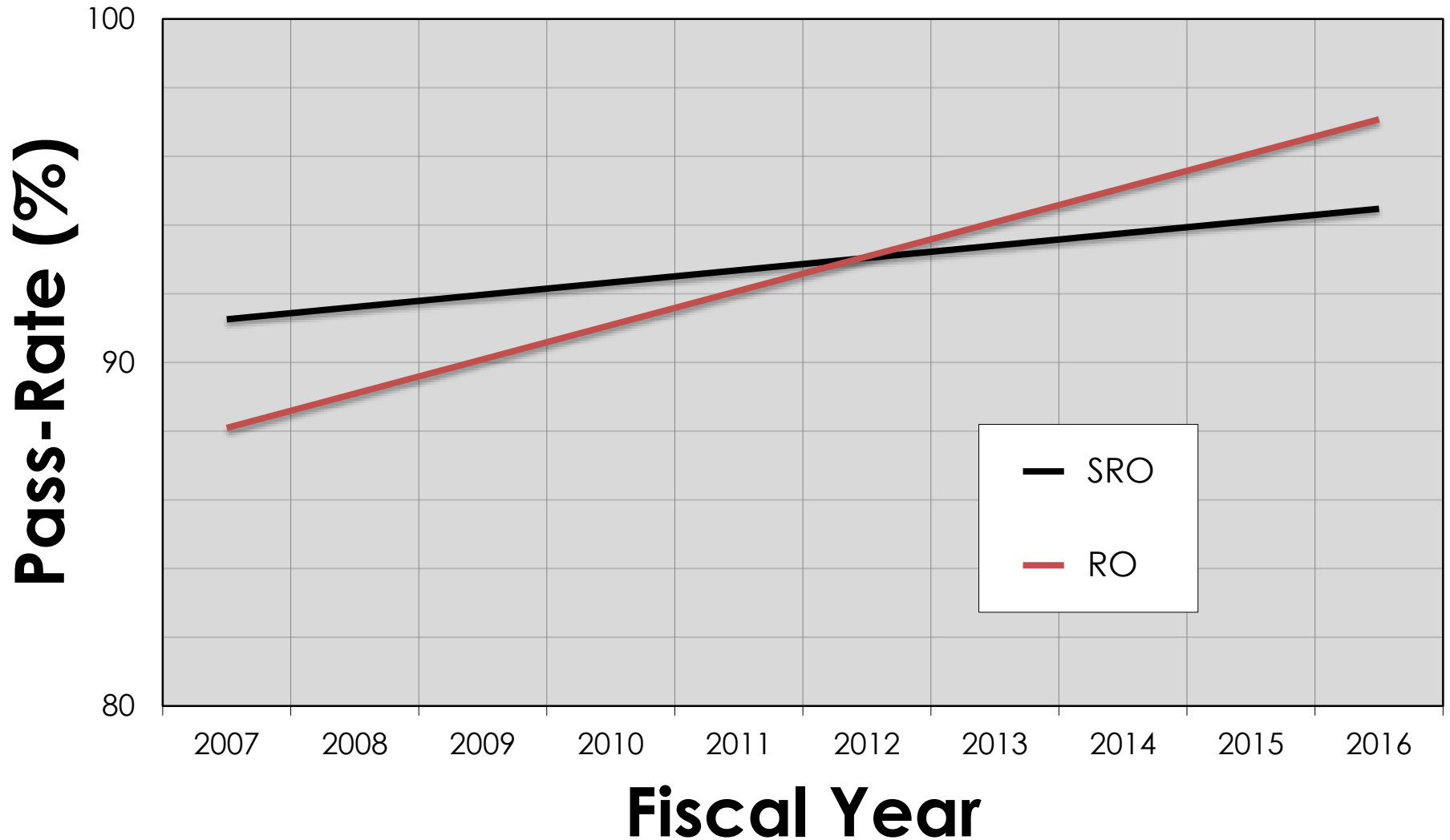
Achieving More Objective Safety-Focused Program

- Commission oversight of the requalification program changed from administration to inspection
- Regulations revised to allow industry to write site-specific examinations
- Regulations revised to require operating test to be administered in part on a plant-referenced simulator

Existing Initial Operator Licensing Framework



Pass-Rate Trends for ROs and SROs Continue to Increase



Improvements Made to Enhance Program Execution

- RRPS - OL module
 - Licensed operator docket files
- Operator digital docket
- RRPS inspection module scheduling tools



Actively Implementing Lessons Learned and Feedback

- 2014 Vogtle ASLB hearing decision
- 2014 operator licensing lessons learned review team report
- 2015 operator licensing implementation team report
- Public interaction
- NUREG-1021 Revision 11

Resolving Consistency Issues and Project AIM Commitments

- Enhance consistency in the grading process of simulator operating tests
- Implement solutions to improve regional consistency
- Implement Project AIM commitments

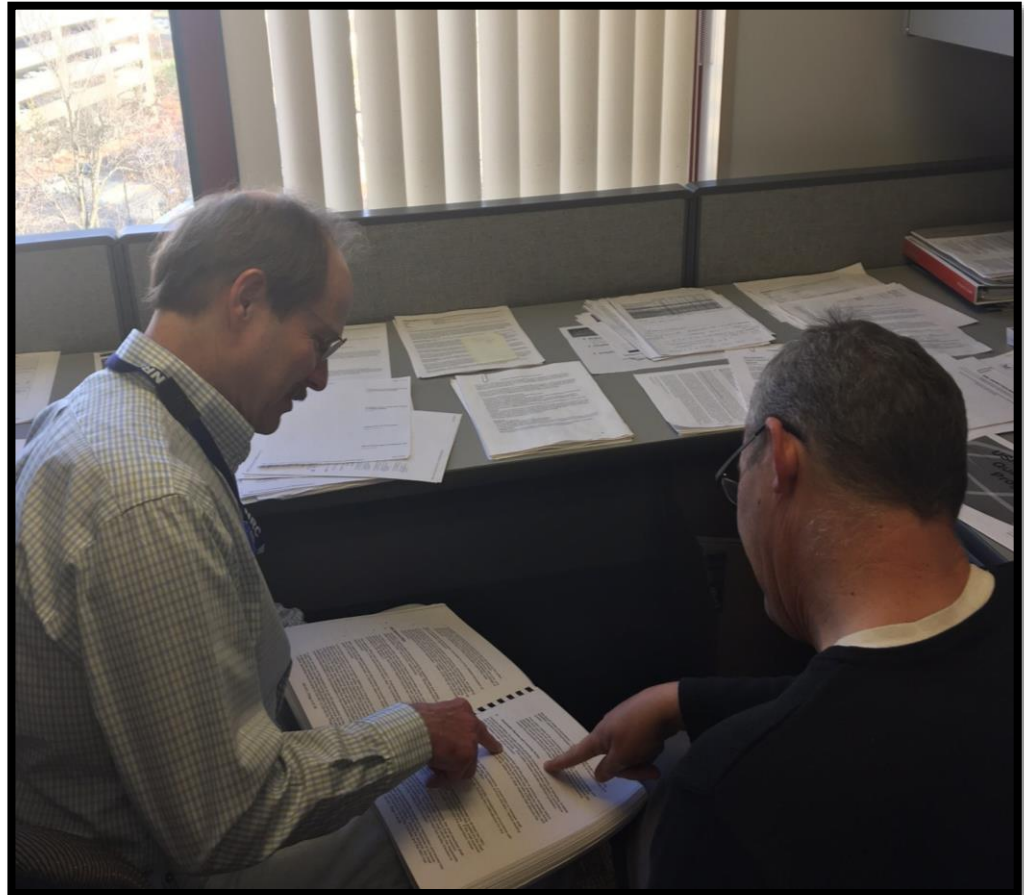
Implementing Operating Test Improvements

- Operating test construction
- Simulator operating test grading



Addressing Project AIM Commitments and Stakeholder Feedback

- GFE testing frequency
- Informal NRC staff reviews



Next Steps

- NUREG-1021, Revision 11 – publication anticipated by January 31, 2017
- Will be in use six months after publication

Successfully Administered the First AP1000 Examinations

- Implemented guidance for new reactors
- Successfully resolved challenges
 - Commission-approved simulator
 - Alternate methods approved to perform JPMs

Completing Actions Needed for Initial Plant Startup

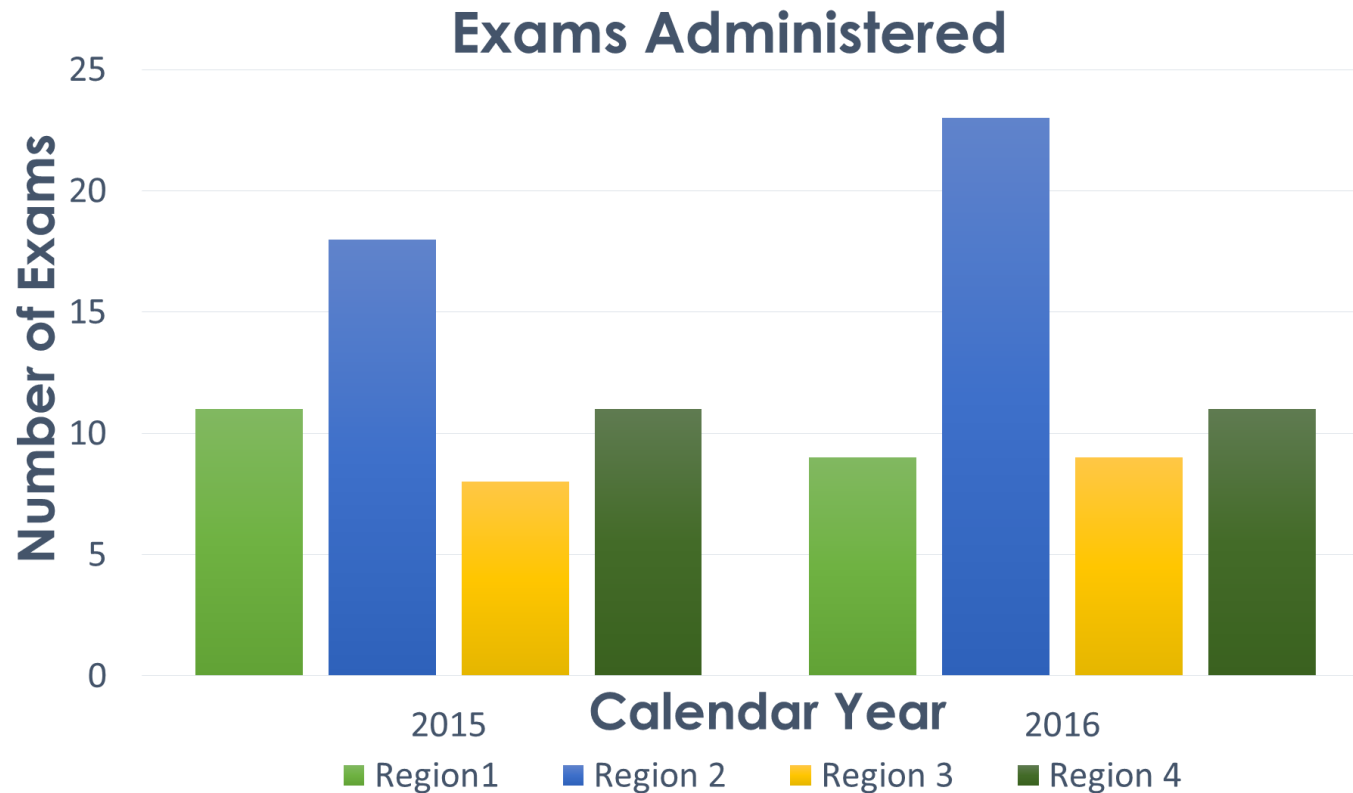
- Continue to administer examinations for Vogtle and V.C. Summer
- Complete ITAAC inspections and verifications necessary for the licensees to establish a plant-referenced simulator

Enhancing Guidance from Lessons Learned

- Established a working group
- Identifying lessons-learned from the new reactor licensing process
- Modifying existing guidance documents

Meeting All Operator Licensing Goals

Met operating reactor licensees' requests for examinations



Meeting New Build Operator Licensing Goals

First AP1000 examinations successfully administered



Assuring Reliability and Capacity for the Future

- Implementing lessons learned to enhance reliability
- Agile resource utilization
 - National examination schedule



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Acronyms

ASLB	Atomic Safety and Licensing Board
GFEs	generic fundamentals examination
IM	inspection module (in RRPS)
ITAAC	inspections, tests, analyses, and acceptance criteria
JPMs	job performance measures
ODD	operator digital docket

Acronyms

OL	operator licensing
ROs	reactor operators
RRPS	Revised Reactor Program System
SAT	systems approach to training
SROs	senior reactor operators