

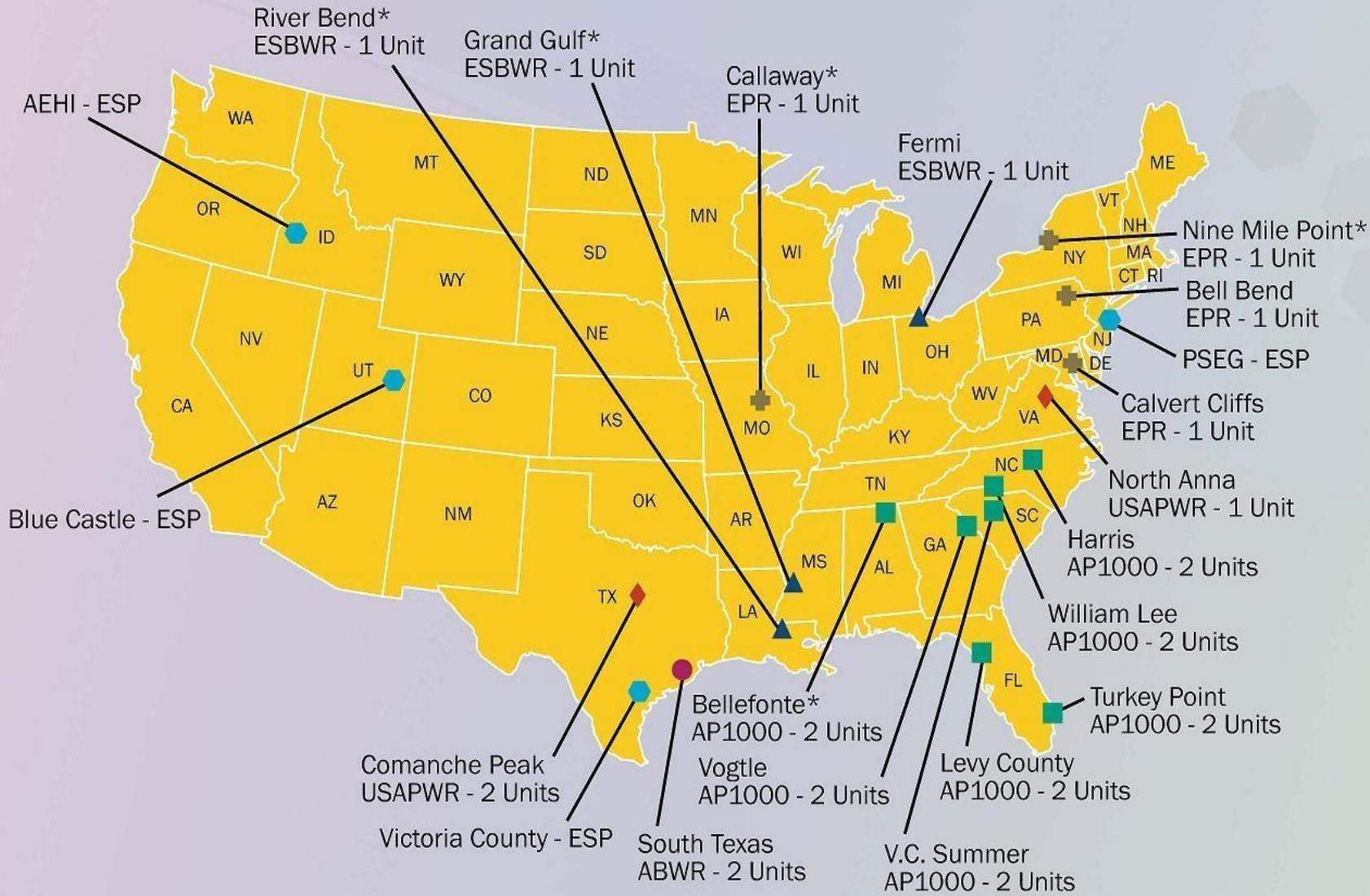
# State Liaison Seminar

## Overview of NRC's Construction Oversight Program

Laura Dudes  
Deputy Regional Administrator  
Region II



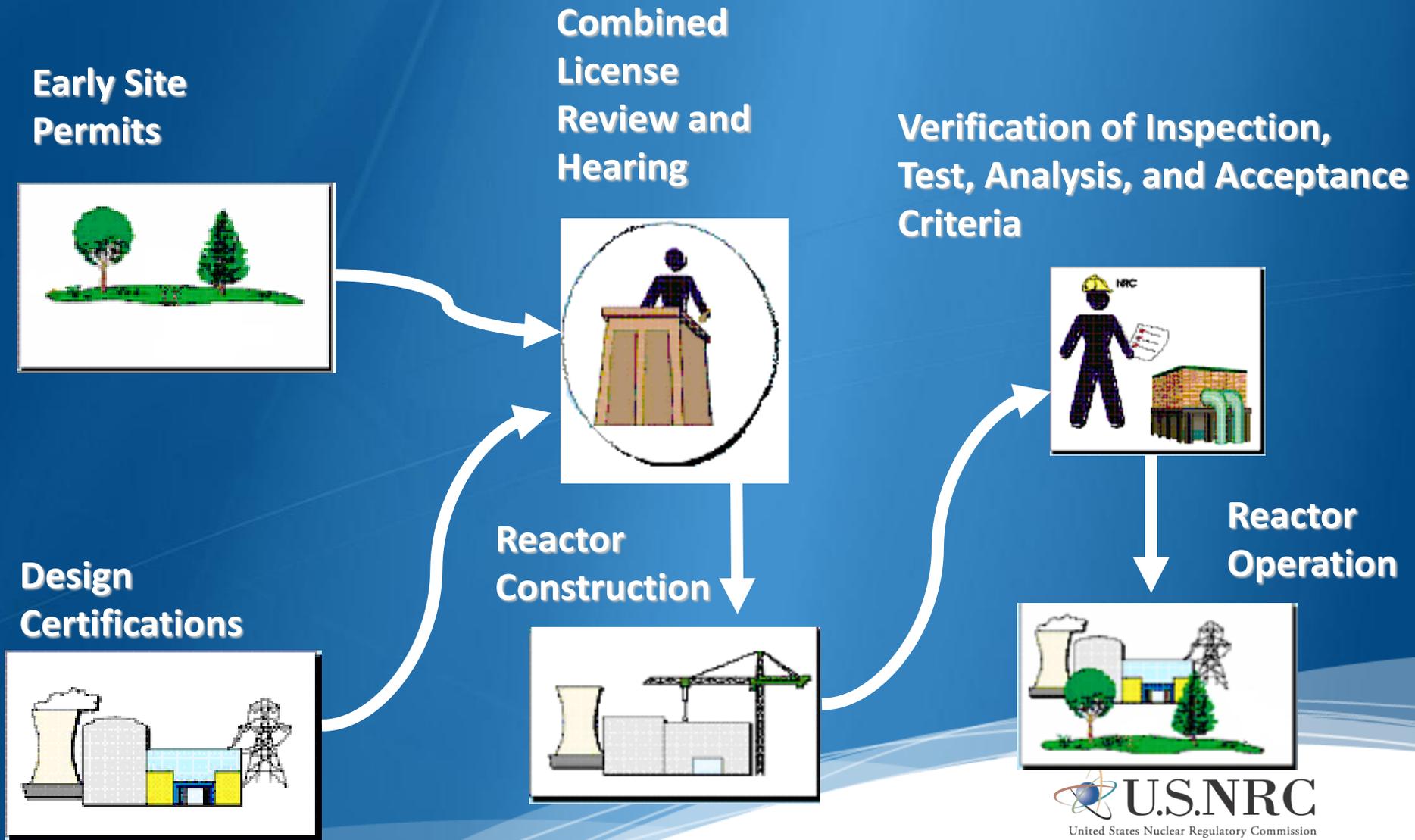
# Locations of New Nuclear Power Reactor Applications



● ABWR	■ AP1000	⊕ EPR	▲ ESBWR	◆ USAPWR	⬢ Early Site Permit
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\*Review Suspended by Applicant

# Part 52 – Reactor Licensing Process



# Roles and Responsibilities



# Construction Inspection Program

## Inspections

Vendor Inspections

Baseline Program Inspections

Supplemental and Reactive Inspections

Vendor Inspections

Type Test Inspections

Program Inspections

ITAAC-Related Inspections

Reactive Inspections

Supplemental Inspections

# 10 CFR 52.103

52.103(g)  
finding

All ITAAC  
completed  
by  
licensee

Commission  
finds all  
ITAAC are  
met

Operation is  
authorized,  
and fuel load  
may  
commence

ITAAC are no  
longer  
requirements  
for the plant

Tech Specs  
and  
operating  
license  
conditions  
take over



Public Involvement Opportunity – when the Commission publishes notice of intended operation (no less than 180 days before scheduled fuel load), public has 60 days to submit hearing request



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RADIOACTIVE WASTE

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REGULATORY OVERSIGHT FOR NEW REACTORS

Construction Reactor Oversight Process

Construction Inspection Program

Quality Assurance

Radiation Protection

Aircraft Impact Assessment (AIA) Inspections



Spotlight

CHOOSE A SECTION

Home > Nuclear Reactors > New Reactors > Oversight > cROP

## Construction Reactor Oversight Process (cROP)

On this page:

- [Process Description](#)
  - [Overview](#)
  - [Inputs to the Assessment Process](#)
  - [NRC Response to Plant Performance](#)
- [Plant Assessment & Results](#)
  - [Individual Plant Performance Summaries](#)
  - [Performance Summaries](#)
  - [Historical Performance](#)
  - [Program Evaluations and Stakeholder Feedback](#)
  - [Watts Bar Unit 2 Reactivation](#)

### RELATED INFORMATION

[cROP Assessment and Enforcement Program Pilot](#)

[List of Construction Inspection Reports](#)

[List of Construction Assessment Reports](#)

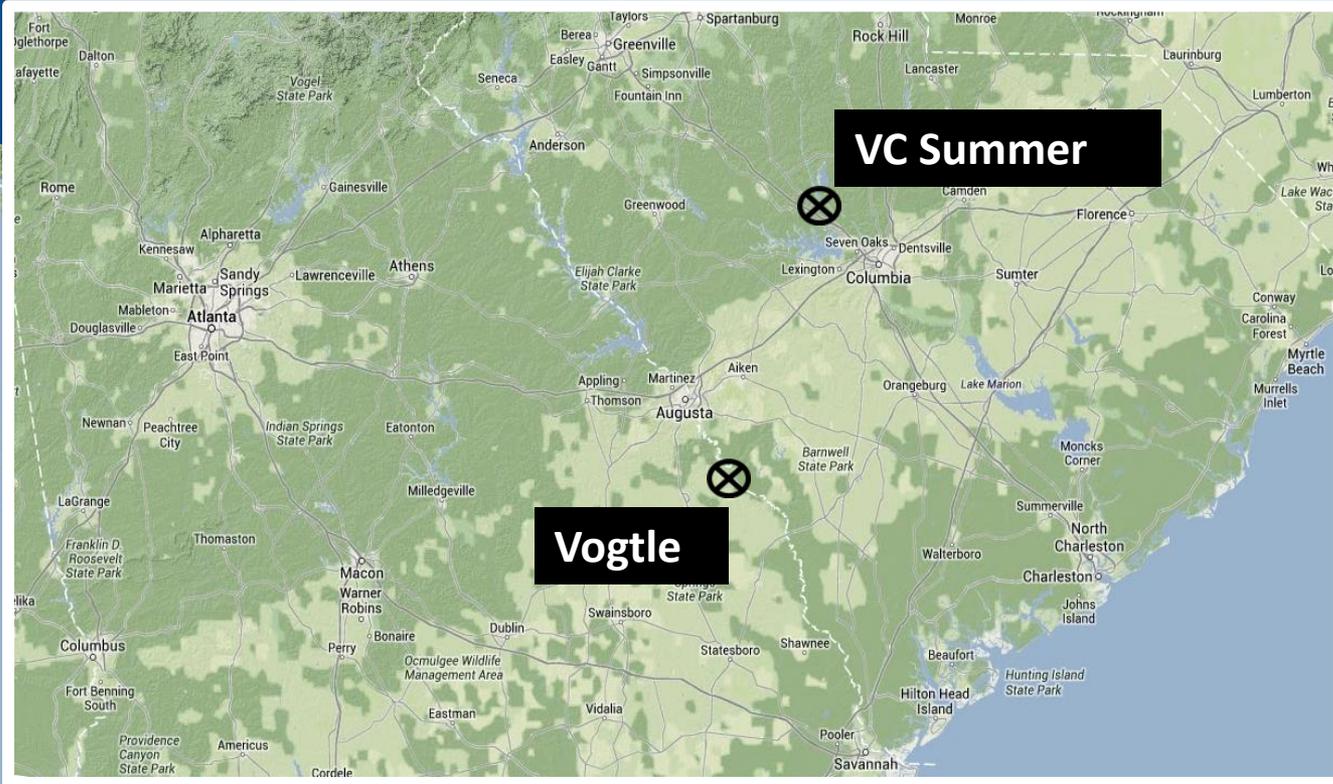
[Public Meetings and Workshops Regarding the Construction Inspection Program for New Reactors](#)

### Process Description

**Overview** - The cROP is described in detail in IMC 2506, "Construction Reactor Oversight Process General Guidance and Basis Document," and at the Detailed cROP Description page. The cROP is implemented when an applicant announces its intent to submit an application pursuant to Part 52 for an early site permit (ESP), a limited work authorization (LWA), and/or a combined construction permit and operating license (COL). The cROP will remain in effect until regulatory oversight for the plant is transitioned to the Reactor Oversight Process (ROP).

The degree to which the cROP is implemented depends on the application/license status and the amount of ongoing activities that are associated with applications/licenses. For instance, only inspections pursuant to IMC 2501, "Construction Inspection Program: Early Site Permit (ESP)," may be necessary in the case where an applicant only requests an ESP. On the other hand, if the NRC issues a COL, and there is sufficient activity occurring, all aspects of the cROP will be implemented.

# AP1000 at Vogtle and VC Summer

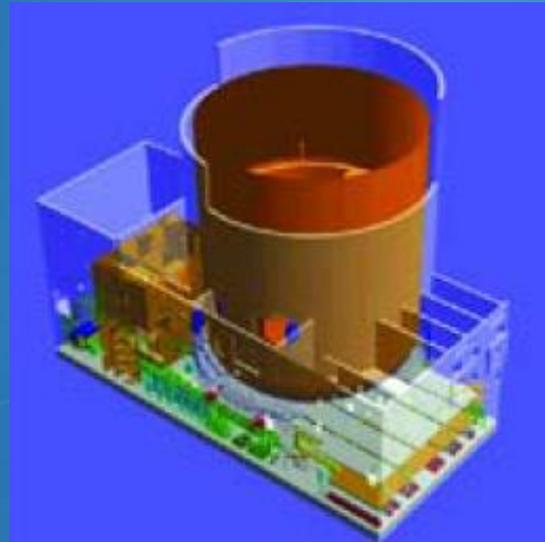


# Construction Lifecycle

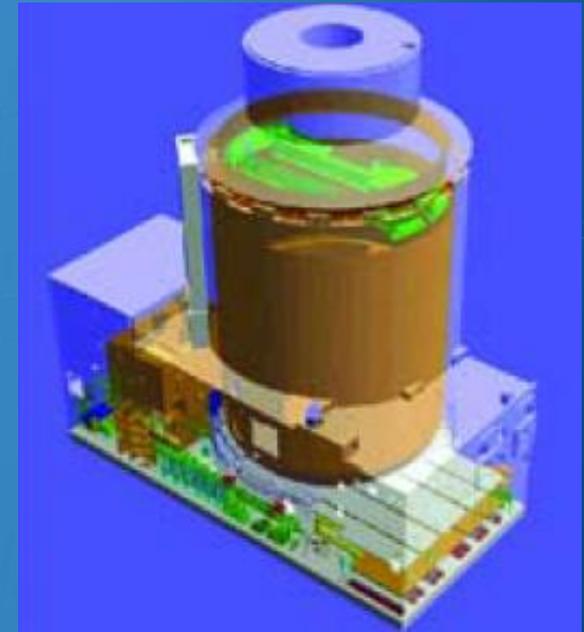
Time From First Concrete Pour



Three Months



One Year



Two Years

# Westinghouse AP-1000 Modules



# CA20 Module at Vogtle



# CA20 Lift and Placement





# First Nuclear Concrete

## Vogtle Unit 3



## VC Summer Unit 2





# Containment Vessel Bottom Head Placement



Vogtle Unit 3

VC Summer Unit 2



# CA01 Lift and Placement Video



# MOX Fuel Fabrication Facility

As of September 2015, the MFFF is approximately 68% complete



Process piping sub-assembly module being lifted to the Active Gallery



# Watts Bar Unit 2

## Reactor Head Installation



Safety Injection Pump Testing



# QUESTIONS?