



# Vogtle 3 & 4 COL

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Southern Nuclear Operating Company  
VEGP Units 3 & 4  
Combined Licenses and  
Limited Work Authorization  
Mandatory Hearing

Introduction and Overview  
September 27, 2011

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# Vogtle 3&4 Overview

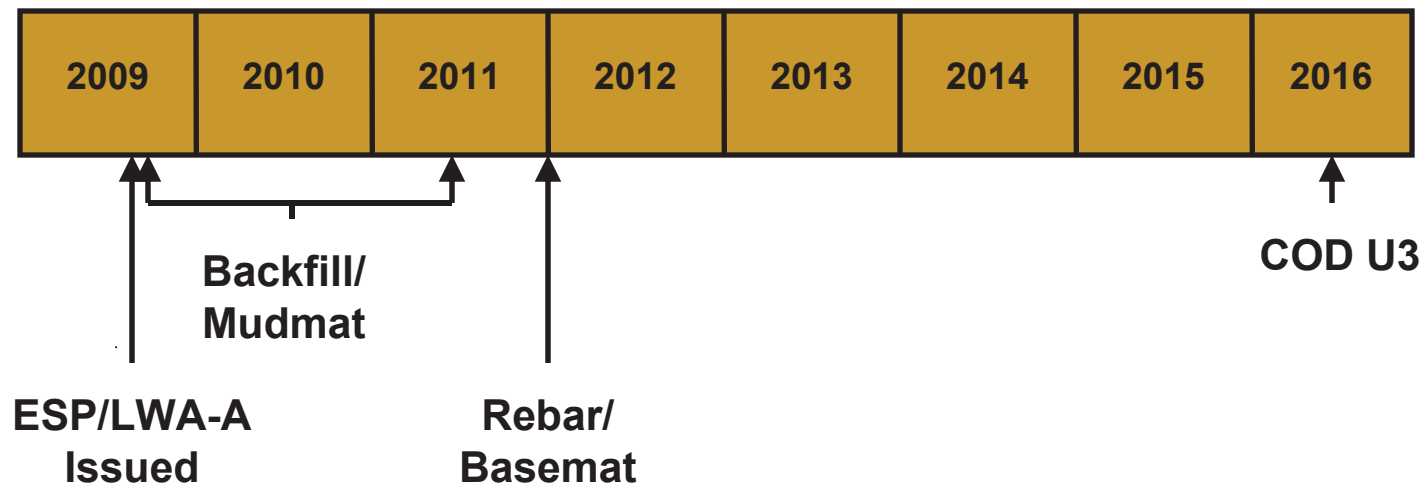
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# Vogtle Construction Program

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# Vogtle 3&4 Overview



# Construction Status (September 18)

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- ◆ Unit 3
  - ◆ Backfill 83% complete
  - ◆ Mud mats & waterproof membrane installed; **ready for base mat rebar start**
  - ◆ MSE Wall 90% Complete
  - ◆ MSE Wall Waterproofing 65% Complete
  - ◆ CWS 100% complete in backfill
- ◆ Unit 4
  - ◆ Backfill 53% complete
  - ◆ Lower mud mat placed
  - ◆ MSE Wall 78% Complete
  - ◆ CWS 100% complete in backfill



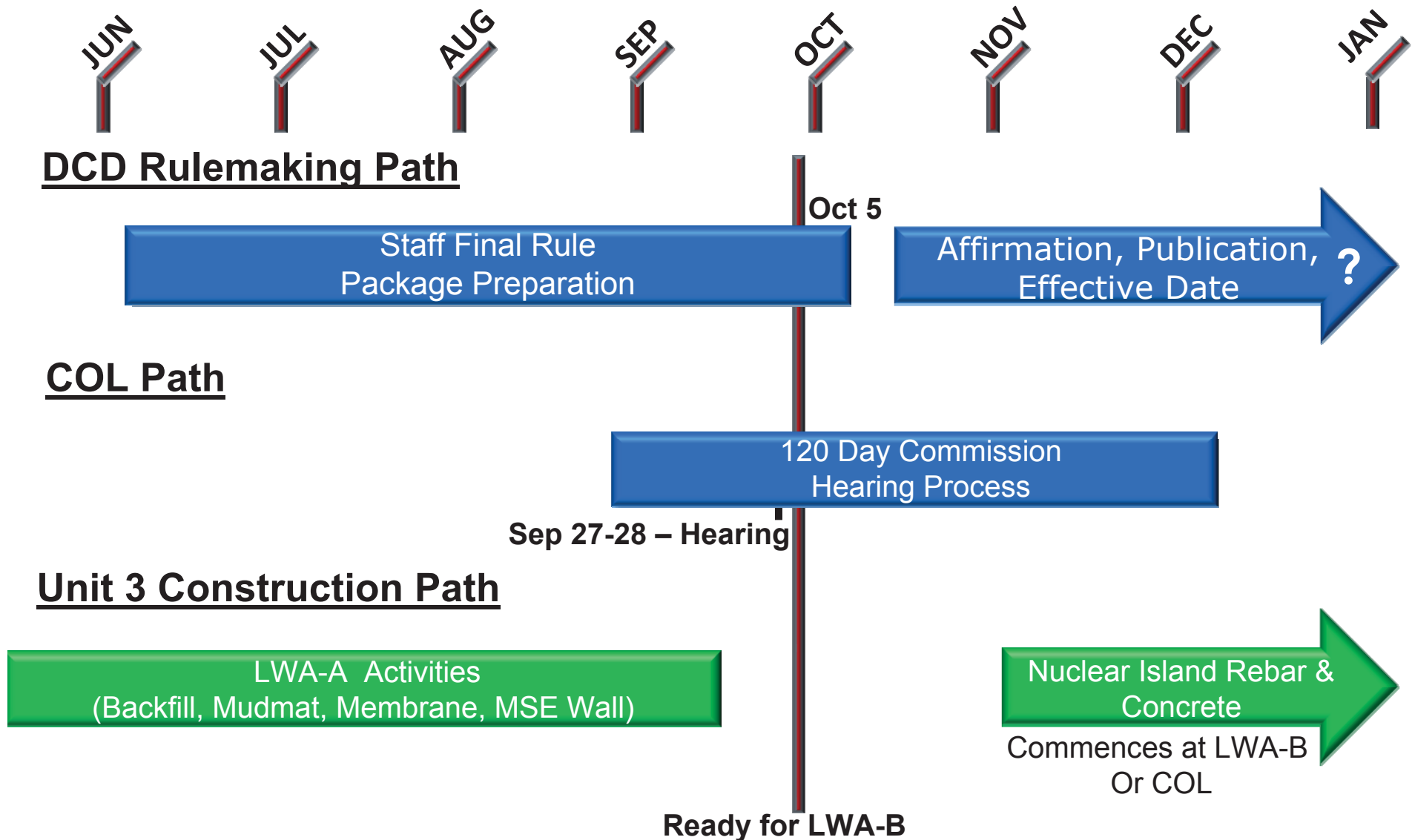














## COL/LWA Issuance

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- ◆ SNC has requested by letter that COL/LWA-B be issued based on affirmation of AP1000 Design Certification Rule
  - ◆ Affirmation would constitute final Commission approval of design –necessary findings could be made
  - ◆ No impact on safety review
- ◆ LWA-B at earliest allowable date would benefit quality of construction in a number of ways
  - ◆ Avoids disruption of construction processes important to quality
  - ◆ Maintenance of construction completed to date enhanced



# Application Concepts

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- ◆ Combined License Application ("COLA") for 2 Units
  - ◆ Meets Part 52, Subpart C "Combined Licenses"
  - ◆ Is the Reference COLA for utilities' standard contents
  - ◆ IBRs AP1000 DCD Rev 19
  - ◆ IBRs Vogtle 3 and 4 Early Site Permit information
- ◆ NRC Guidance Utilized
  - ◆ Regulatory Guide 1.206
  - ◆ NUREG-0800 (generally updated for Part 52)
- ◆ Other COLA IBRs
  - ◆ Nuclear Energy Institute (NEI) templates





# Introduction: Design Centered Review Approach

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- ◆ NRC use of "One issue, one review, one position"
- ◆ Maximum benefit achieved through standardization
- ◆ Reference (R)-COLA – Southern Nuclear, Vogtle (GA)
- ◆ The AP1000 DCWG is also comprised of these additional Members (Subsequent (S)-COLAs):
  - ◆ South Carolina Electric & Gas, Summer (SC)
  - ◆ Duke Energy, Lee Nuclear (SC)
  - ◆ Progress Energy, Levy County (FL)
  - ◆ Progress Energy, Shearon Harris (NC)
  - ◆ Florida Power and Light, Turkey Point (FL)
  - ◆ Tennessee Valley Authority, Bellefonte (AL)
- ◆ NuStart Coordination
  - ◆ DCWG, WEC, NEI, NRC Staff
  - ◆ Extensive public interactions



## Vogtle 3&4 Overview

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- ◆ Vogtle COL Application submitted Mar 2008
- ◆ Submitted initially as S-COLA following TVA BLN as the R-COLA
- ◆ Began Vogtle transition to RCOLA in Apr 2009
- ◆ Vogtle includes applicable Bellefonte 3 & 4 standard material
- ◆ Vogtle FSER contains NRC Staff's complete evaluation



## Reference (and S-)COL Application

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- ◆ Part 1 – General & Administrative Information
- ◆ Part 2 – Final Safety Analysis Report
- ◆ Part 3 – Environmental Report
- ◆ Part 4 – Technical Specifications
- ◆ Part 5 – Emergency Plan
- ◆ Part 6 – Limited Work Authorization
- ◆ Part 7 – Departures, Exemptions & Variances
- ◆ Part 8 – Safeguards/Security Plans
- ◆ Part 9 – Withheld Information
- ◆ Part 10 – License Conditions (including ITAAC)
- ◆ Part 11 – Enclosures





# COL Application Highlights

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- ◆ Departures from AP1000 DCD Rev 19
- ◆ Variances
- ◆ Exemptions from the Regulations
- ◆ DCD COL Information and Holder Items
- ◆ Early Site Permit COL Items
- ◆ ESP Permit Conditions



# COL Application Highlights

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- ◆ ITAAC comprised of:
  - ◆ VEGP ESP
  - ◆ DCD
  - ◆ Few additional “Plant-specific” ITAAC in COLA



# COL Application Highlights

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- ◆ Comparison of Site Characteristics to Certified Design Site Parameters
  - ◆ COL comparison confirms:
    - ◆ DCD Site Parameters are bounding for the site specific Site Characteristics, OR
    - ◆ Justification is provided (10 CFR 52.79(d)(1))
- ◆ All Vogtle Site Characteristics within bounding DCD Site Parameters (FSAR Section 2.0)





## COL Application Highlights - NEPA

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- ◆ ESP FEIS resolved all environmental issues associated with construction and operation
- ◆ New & significant review performed throughout COL process
- ◆ No new **AND** significant information identified
- ◆ COL FSEIS issued (March 24, 2011)
  - ◆ ESP FEIS findings still applicable
  - ◆ FSEIS recommends that the COL and LWA-B be issued
- ◆ NEPA § 102(2) (A), (C), & (E) requirements are met
- ◆ Environmental, economic and technical benefits of the project outweigh the environmental impacts and other costs



# Summary of Vogtle COL Application

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- ◆ Serves as the AP1000 R-COLA
- ◆ Incorporates the AP1000 DCD Amendment by reference
- ◆ Incorporates an approved ESP by reference
- ◆ Provides reasonable assurance two AP1000 units can be safely constructed and operated on the VEGP site
- ◆ All required findings can be made by the NRC to allow issuance of the LWA-B and COLs

## BEFORE THE COMMISSION

**September 26, 2011**

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Respectfully submitted,

(Original signed by M. Stanford Blanton)

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