



Vogtle 3 & 4 COL

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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Executive Vice President – Nuclear Development

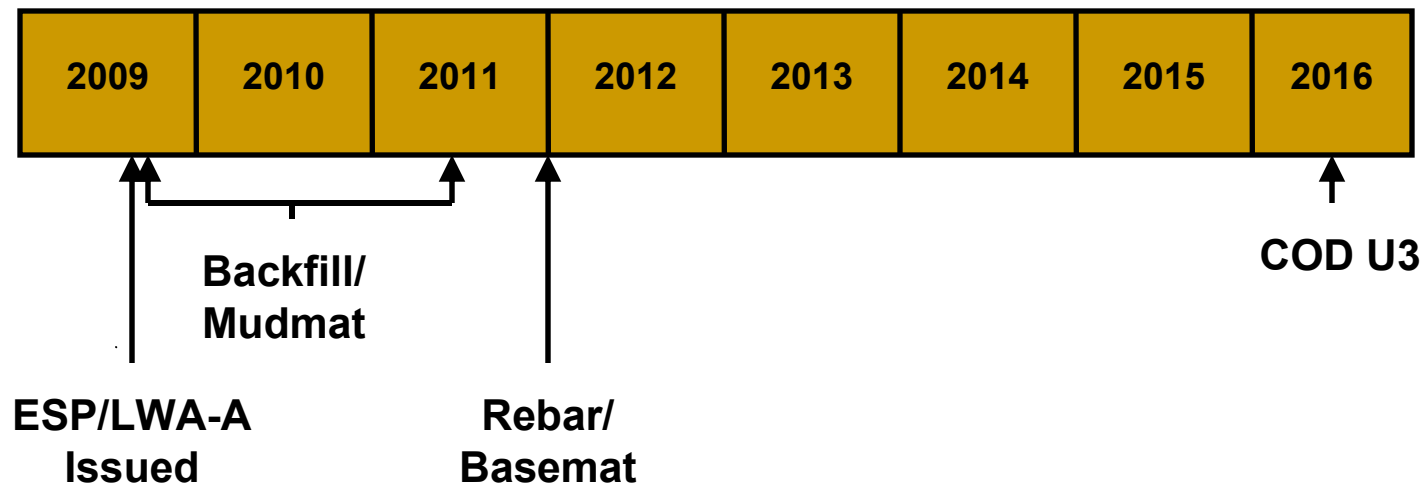
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Vogtle 3&4 Overview





Vogtle Construction Program



Vogtle 3&4 Overview





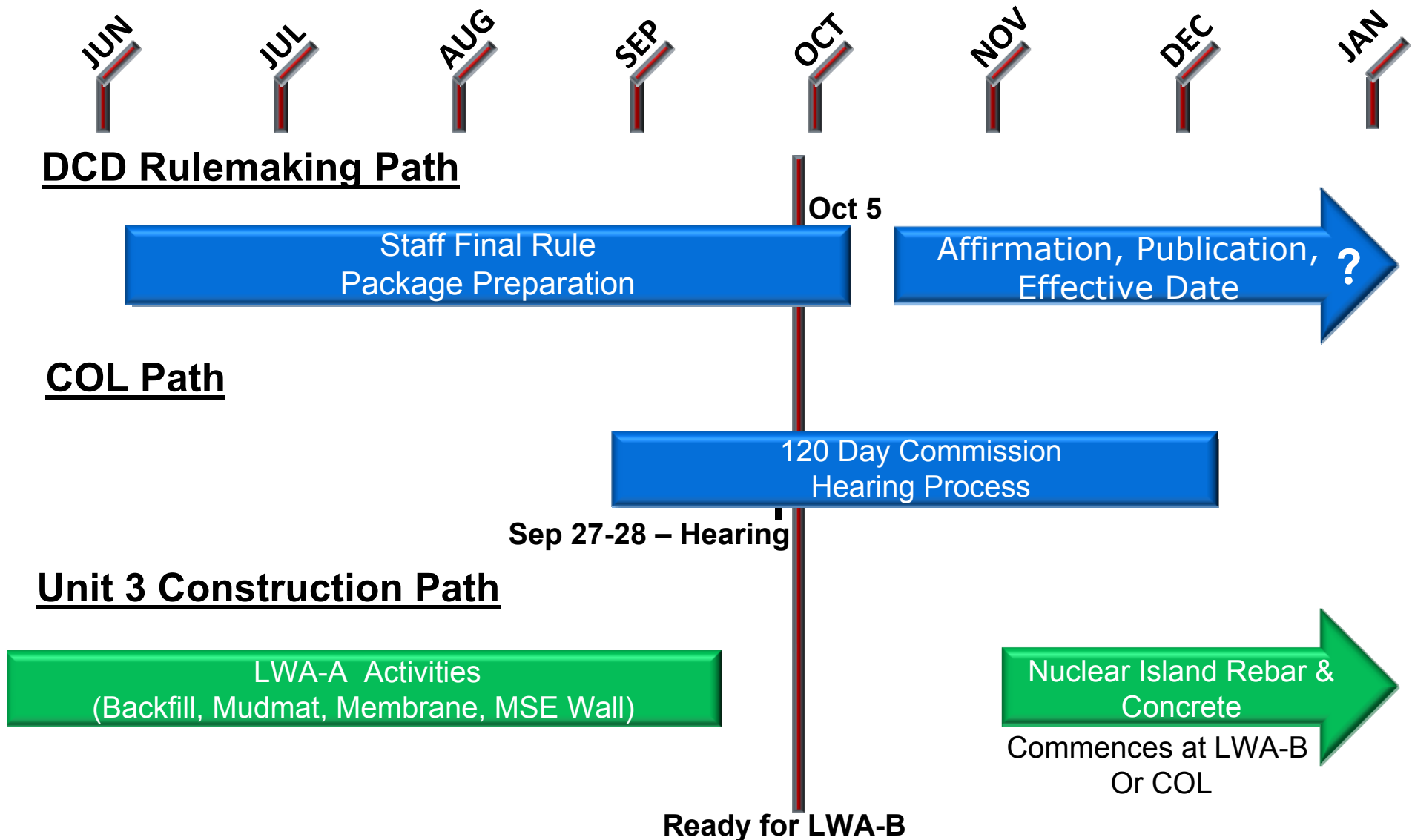
Construction Status (September 18)

- ◆ Unit 3
 - ◆ Backfill 100% complete
 - ◆ Mud mats & waterproof membrane installed; **ready for basement rebar start**
 - ◆ MSE Wall 100% Complete
 - ◆ MSE Wall Waterproofing (Waterproofed) – 96% Complete
 - ◆ CWS 100% complete
- ◆ Unit 4
 - ◆ Backfill 93% complete
 - ◆ Lower mud mat placed
 - ◆ MSE Wall 75% Complete
 - ◆ CWS 100% complete











COL/LWA Issuance

- ◆ 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

- ◆ 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

- ◆ 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

- ◆ 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

- ◆ 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

- ◆ 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

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



COL Application Highlights

- ◆ 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

- ◆ 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

- ◆ 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 23, 2011

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