

NUCLEAR | South Carolina's Clean Energy Solution



# Utility Perspective on Part 52 Implementation

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New Nuclear Deployment

SCANA/South Carolina Electric & Gas Company

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# V.C. Summer Units 2 & 3 Project Team

- **Utilities**

- SCE&G – 55% Ownership
- Santee Cooper – 45% Ownership



- **AP1000 Designer**

- Westinghouse – Standard Plant Designer

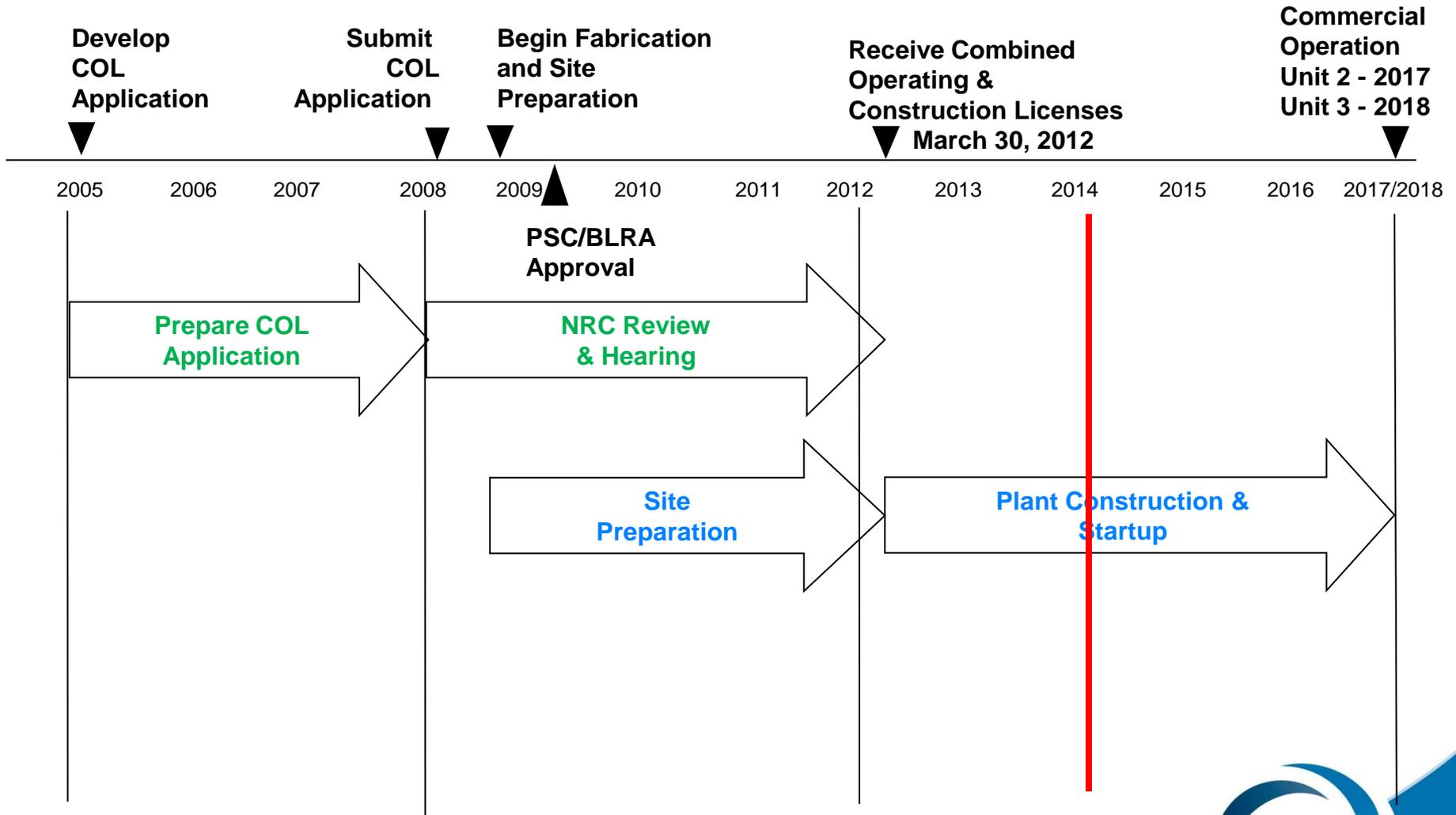


- **General Contractor**

- Chicago Bridge & Iron (CB&I)
- CB&I subcontractors



# Project Timeline



# Project Statistics

- Approximately **2,400** construction workers now onsite
- About **3,800** temporary jobs during peak construction
- **600-800** fulltime jobs when plants are operational
- AP1000 design covers 25 acres per unit
- Units 2 and 3 and support structures will cover 240 acres
- Construction uses approximately 1,000 acres

# Part 52 Implementation

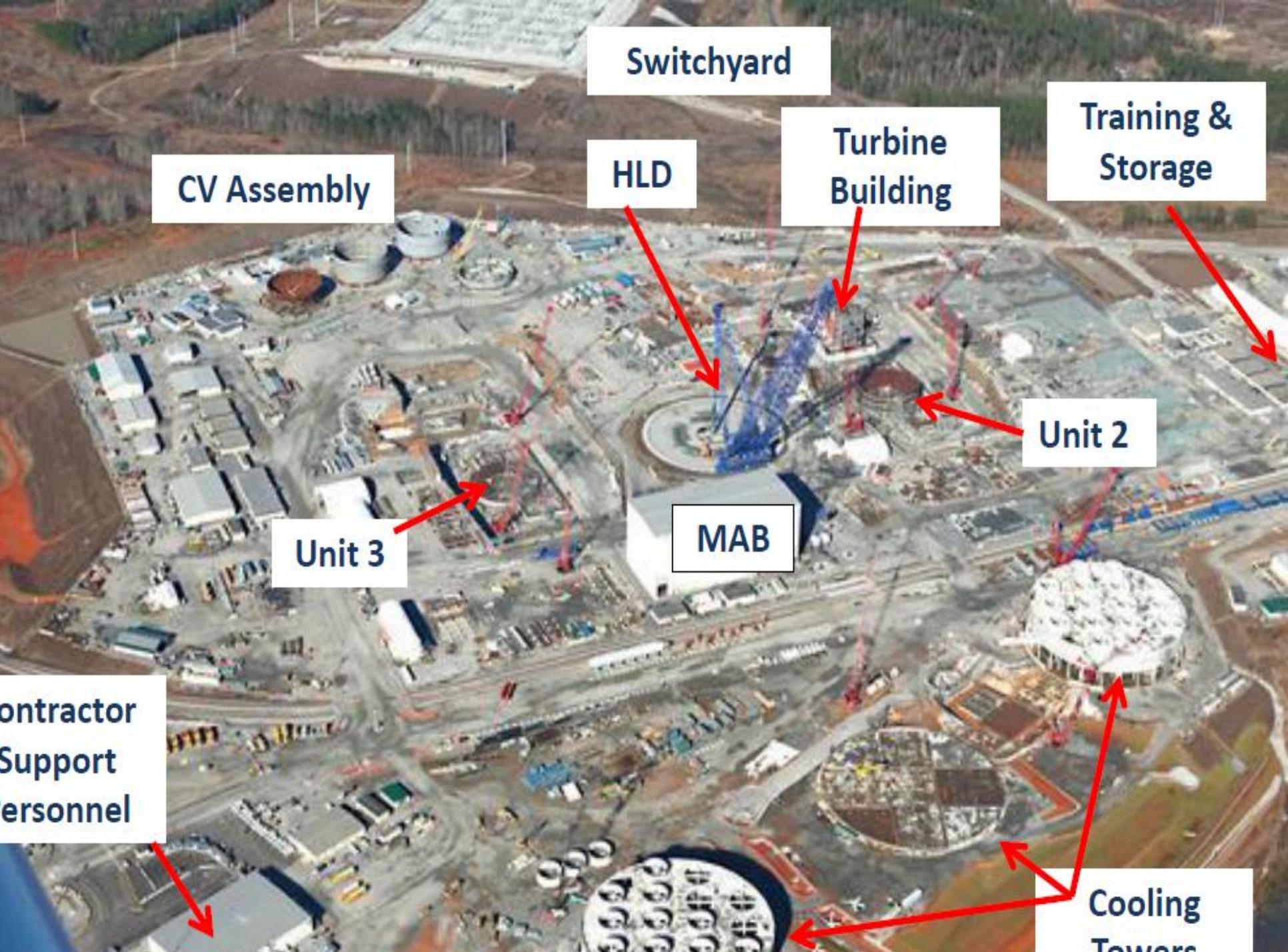
- Phases of Implementation
  - Pre-construction challenges: What can be done before license issuance?
    - Perception of what is considered construction versus fabrication
      - Containment vessel
      - Modules
    - What work is considered pre-construction
      - Excavation
      - Pre-assembly of components
      - Cooling towers
      - Undergrounds

# Part 52 Implementation

- Phases of Implementation
  - Construction Challenges
    - Understand what is the License and Design Basis
      - A significant amount of construction detail found in DCD
      - Understanding code compliance and Interpretation
      - Depth of Constructability Reviews
    - Build what is in the License
      - Understanding Tier 1 and 2 \*
        - » Determining scope of the application of Tier 2\*
        - » Interpretation of Figures in the License

# Part 52 Implementation

- Construction Challenges Continued
  - Determination of need to change license
    - LAR/PAR process
    - Departures
    - Depth of information required
  - Impacts of change on Construction Schedule
  - Impacts on the Licensee and Consortium Staff
  - Impacts on the Regulators Staff



Switchyard

CV Assembly

HLD

Turbine Building

Training & Storage

Unit 3

MAB

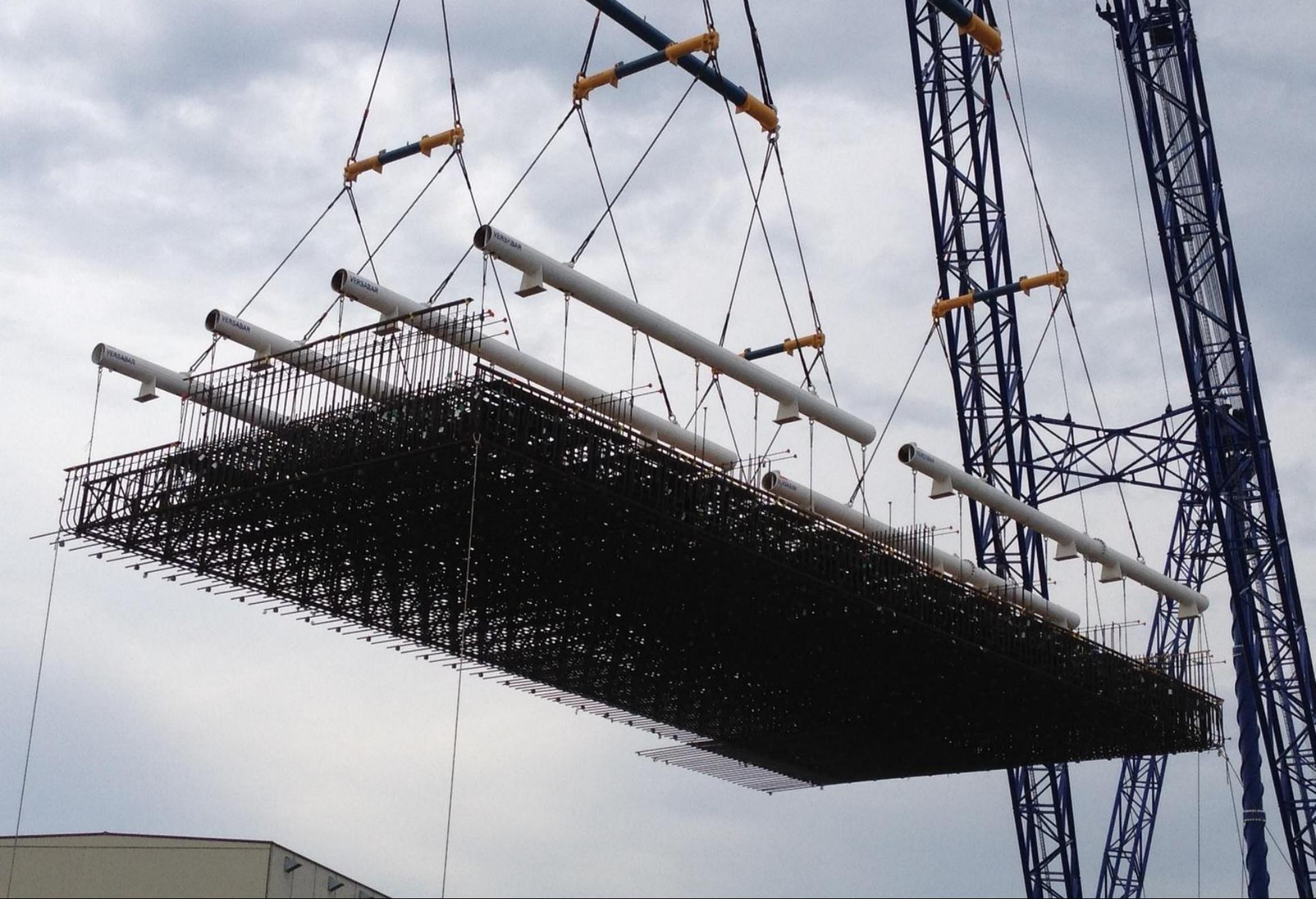
Unit 2

Contractor Support personnel

Cooling Towers



# Units 2 & 3 – Site Overview



Unit 2 Nuclear Island Basemat Rebar Pre-assembly



# | Unit 2 Containment Vessel



# | Unit 2 inside Containment Vessel



# Unit 2 Reactor Vessel from the Port of Charleston to V.C. Summer



# Interstate Travel



# Questions?