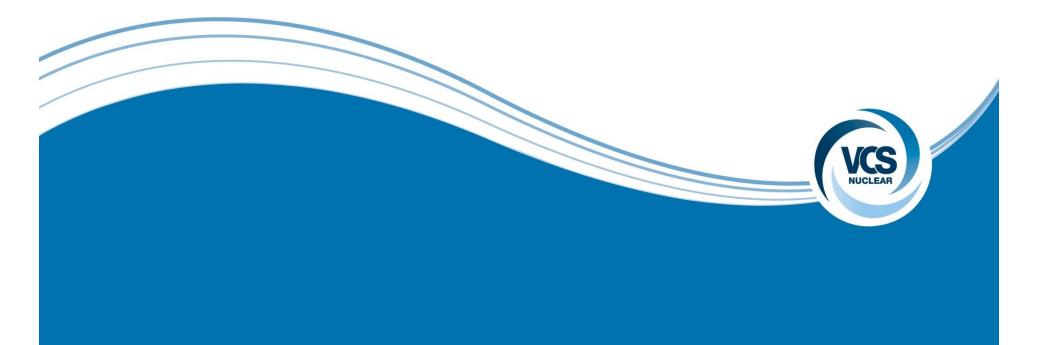
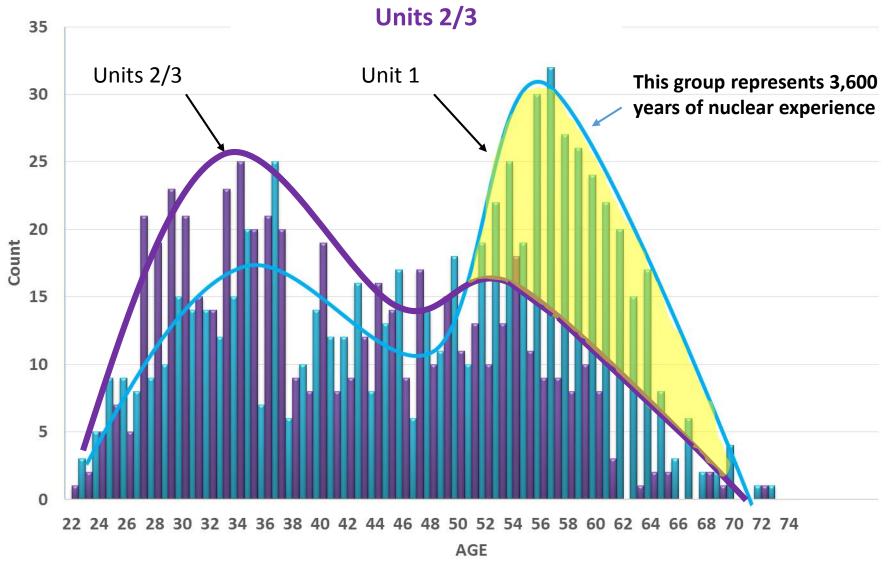
# Governor's Nuclear Advisory Council SCE&G Nuclear Update

July 2016



#### **VCS Age Distribution**

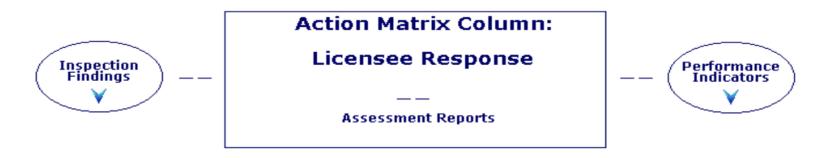


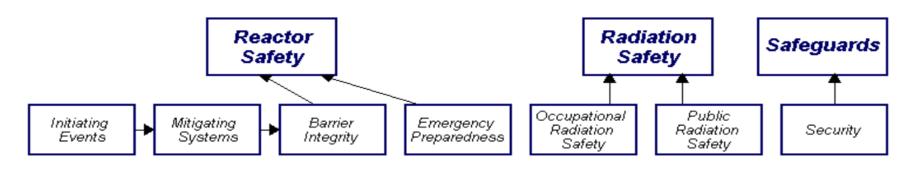




- Westinghouse 3 loop, 2900 MW Thermal (4.5% up-rate 1996)
- Turbine GE 990-1015 MW Electric
- Commercial 1984 (License Extension to 2042)
- Steam Generators Replaced 1994
- Refuel 22 completed December 2015, next April 2017
- Initial Dry Fuel Storage Campaign completed April 23, 1016

#### Summer 1Q/2016 Performance Summary





#### Performance Indicators

Occupational

Exposure Control

Effectiveness (G)

RETS/ODCM

Radiological

Effluent (G)

Protected Area

Equipment(G)

Unplanned Safety System Reactor Coolant Drill/Exercise Scrams (G) Functional System Activity Performance (G) Failures (G) **ERO Drill** Unplanned Power Emergency AC Reactor Coolant Power System (G) Changes (G) System Leakage Participation (G) Unplanned High Pressure Alert and Scrams with Injection System Notification Complications (G System (G) Heat Removal

System (G)

## Recent NRC and INPO Inspections

NRC Inspections	INPO Visits	
Preoperational Testing of an ISFSI, 72.212		
Evaluation and 72.48 Evaluation (Jan-March)	Emergency Response Review Visit (4/15)	
ISFSI Loading Campaign (March-April)	Favings and Baliability, Assistance Visit (6/15)	
Initial Licensing Exam Preparation (May)	Equipment Reliability Assistance Visit (6/15)	
Initial Licensing Exam Exam (June)	Outage Planning Review Visit (8/15)	
Triennial Heat Sink Performance (June)	Transformer, Switchyard and Grid Review Visit	
RP Public Rad Safety Baseline (July)	(8/15)	
Security RP Portion (July)	Crew Performance Evaluation (3/16)  Emergency Response and Fire Protection Evaluation (4/16)	
PI&R (August)		
EP Program (September)		
Triennial Fire Protection (October)		
Security Baseline & Construction (November)		
Plant Modification (November-December)	INPO Evaluation (5-2 – 5-13/16)	



#### **New Nuclear Construction Update**

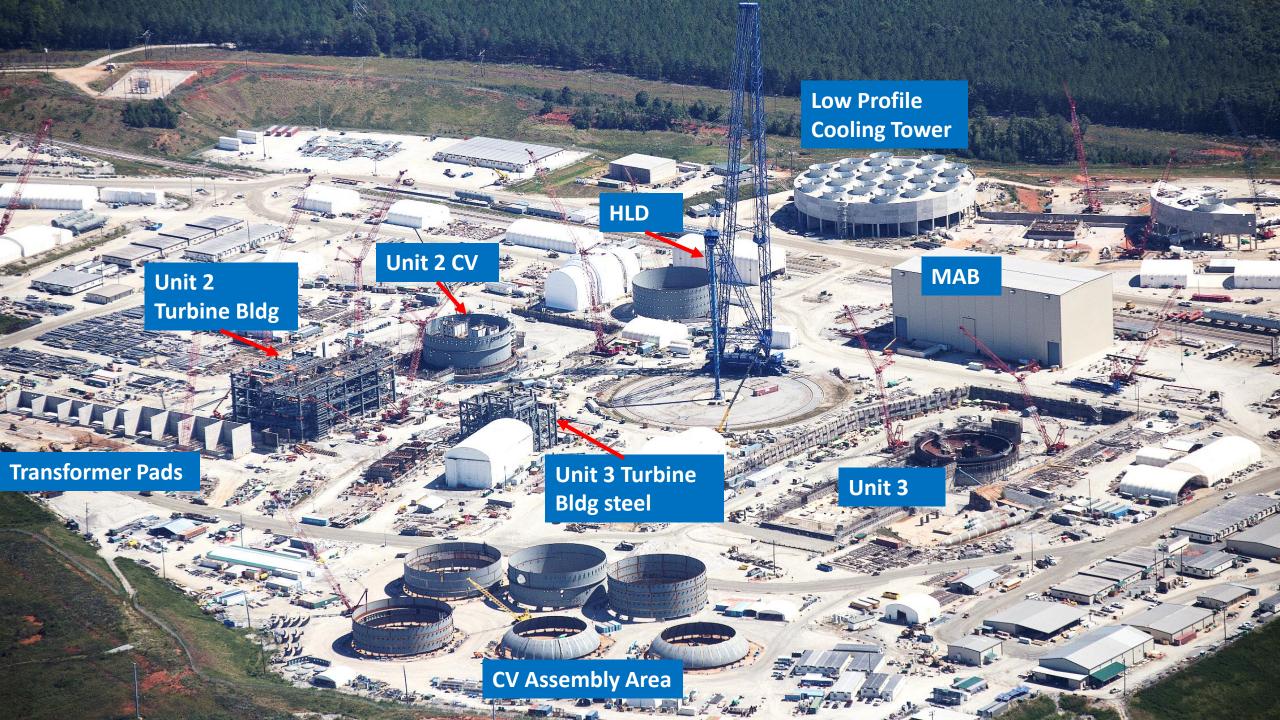










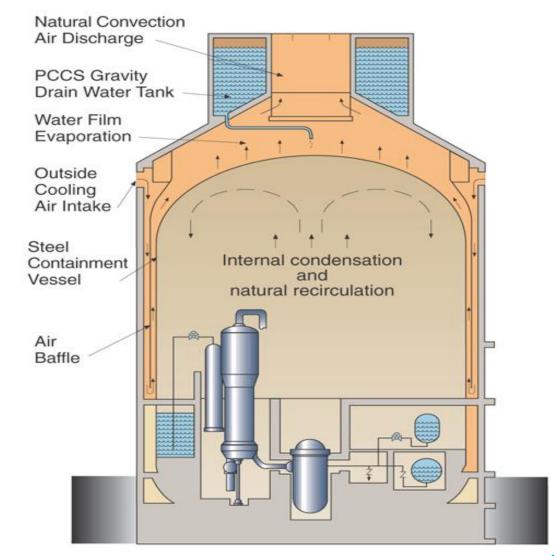


#### **Passive Containment Cooling System**

#### Relies on:

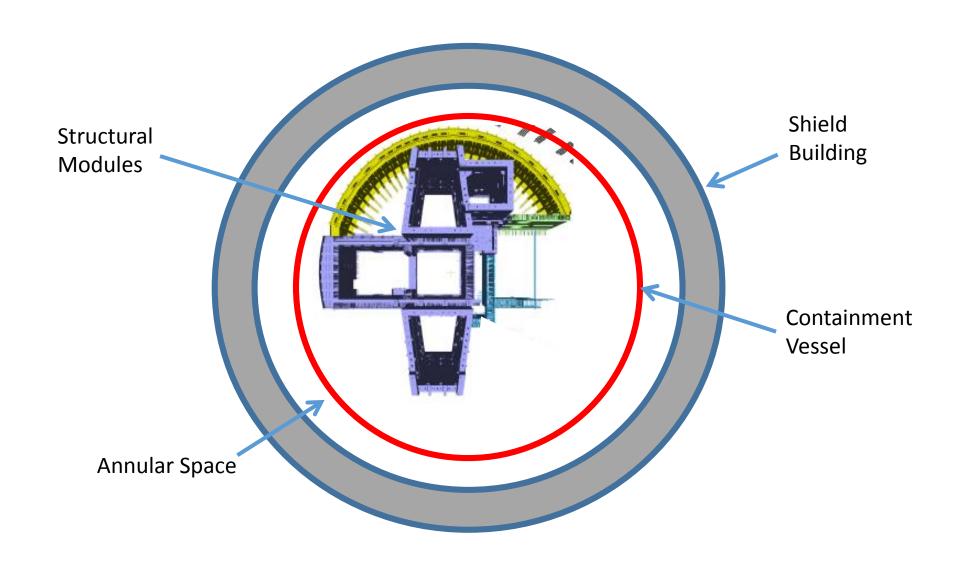
- Evaporation
- Precipitation
- Gravity
- Convection

No AC power needed

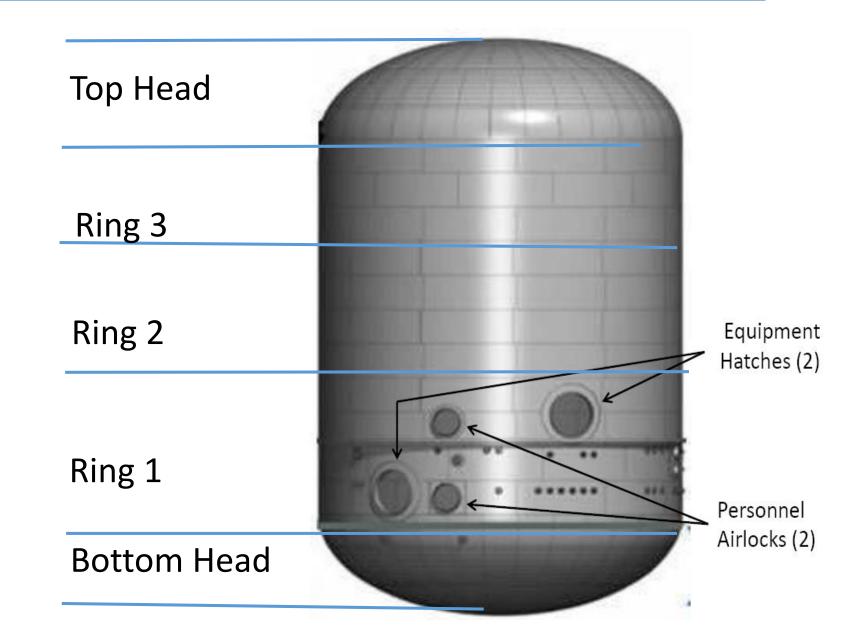




### Shield Building/Containment Vessel



#### **Containment Vessel**



### Containment Vessel Fabrication Area



### Unit 2 Shield Building Panels Set

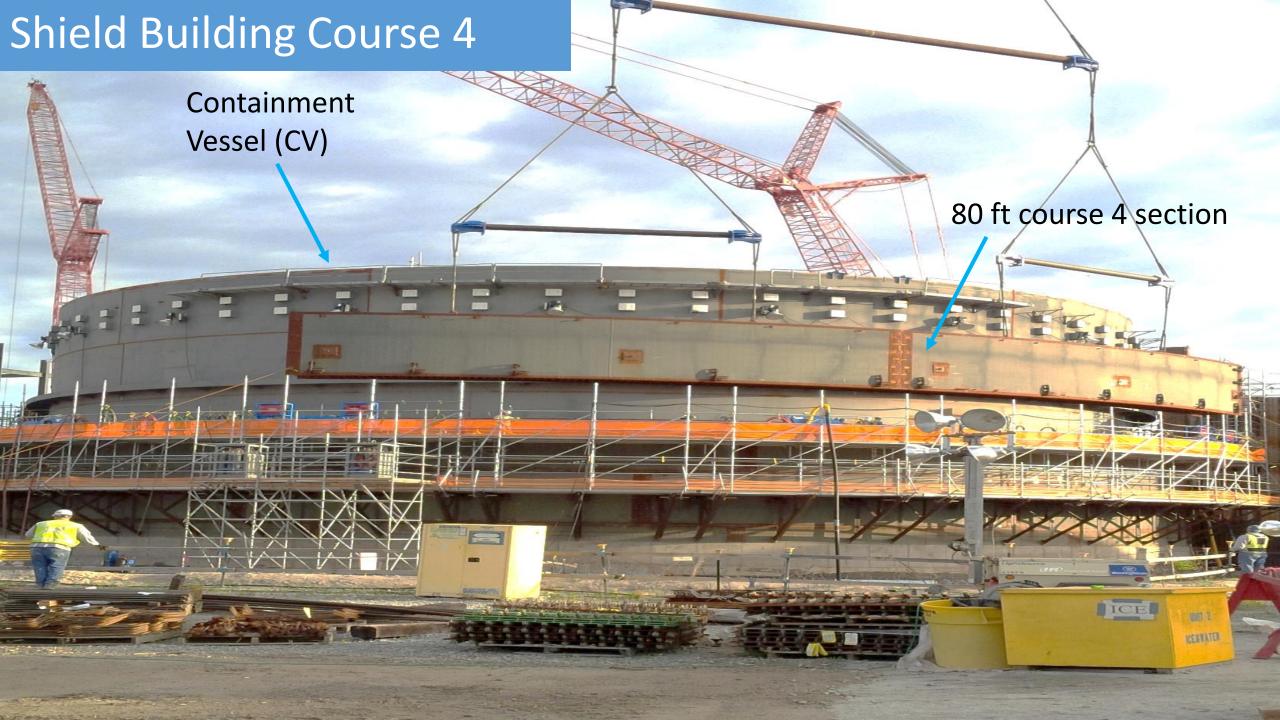


### Unit 2 Shield Building with Concrete



### Shield Building Course 2





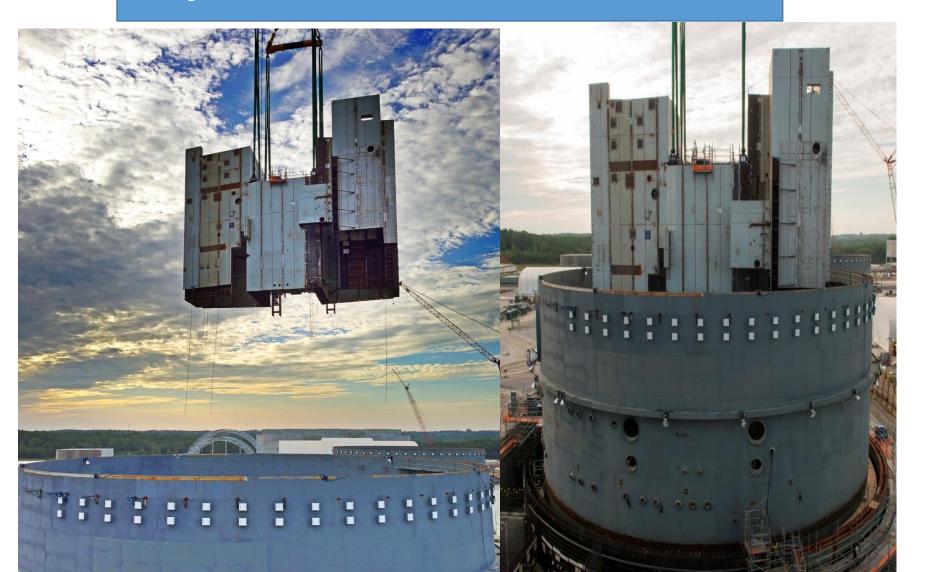
#### **CA Modules**



#### **CA01** Placed July 23, 2015

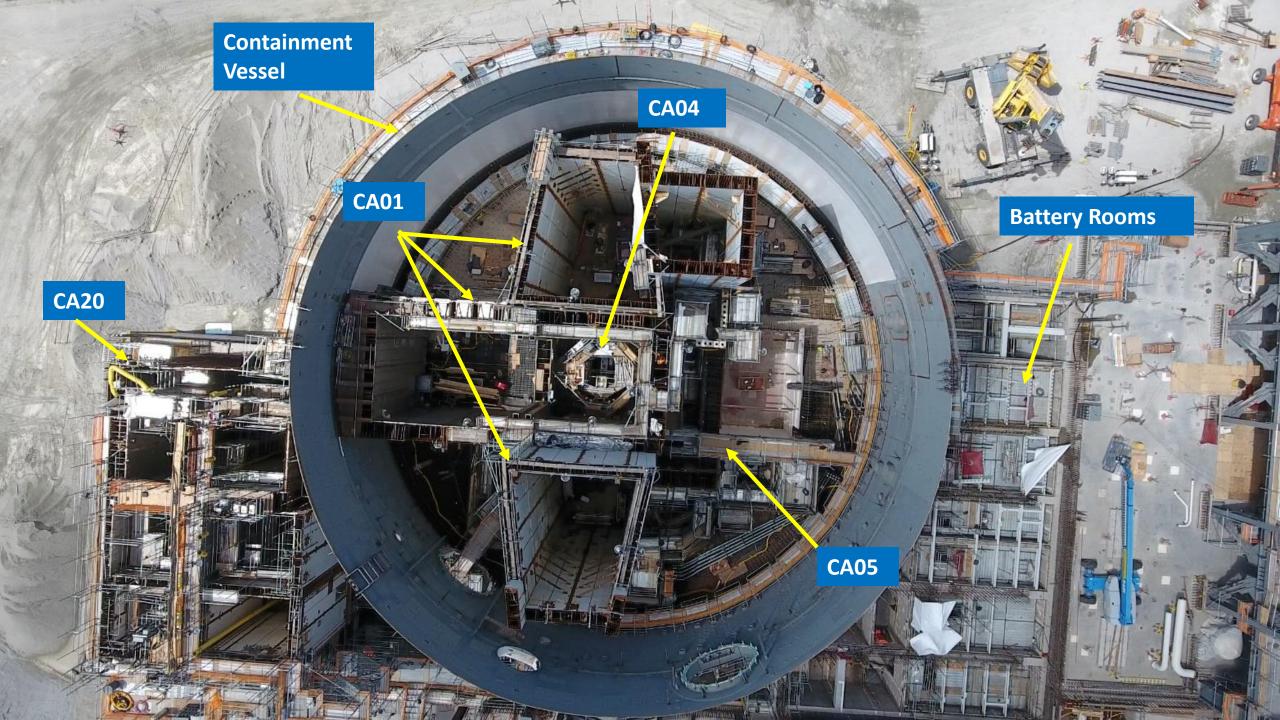
Weight: 2,400,000 Lbs

Dimensions: 95ft x 90ft x 80 ft



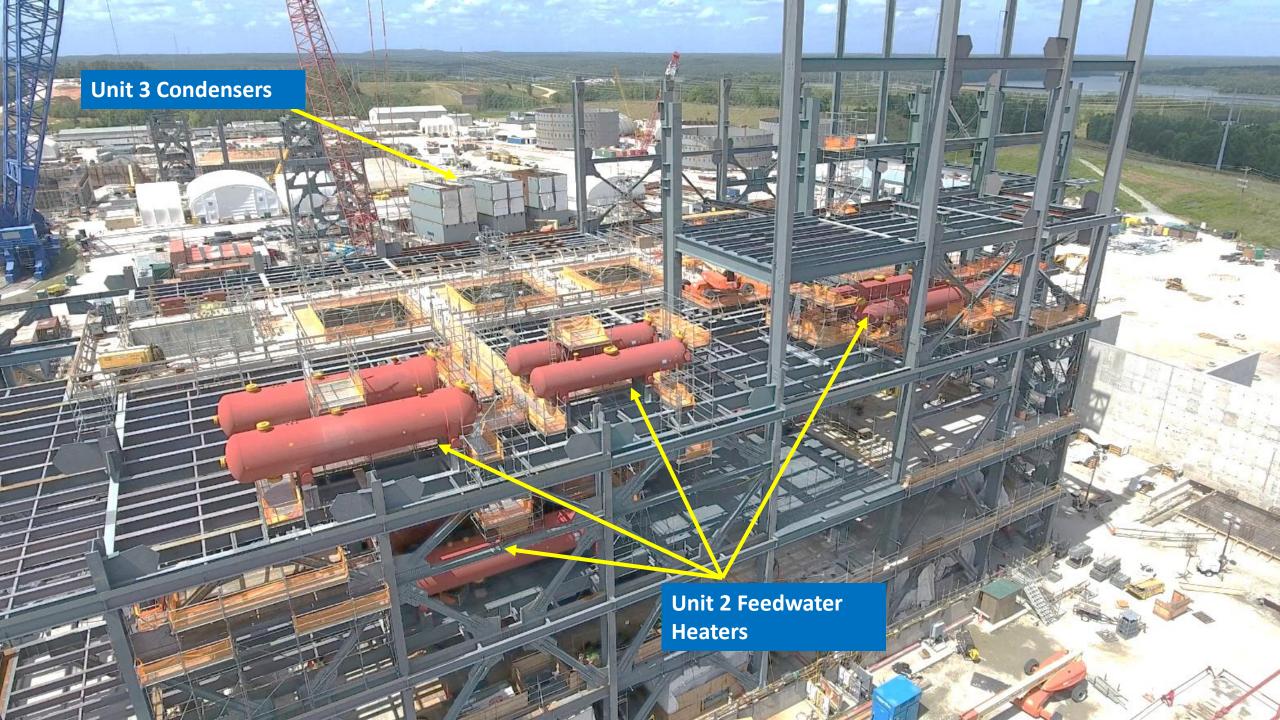
### CA-03







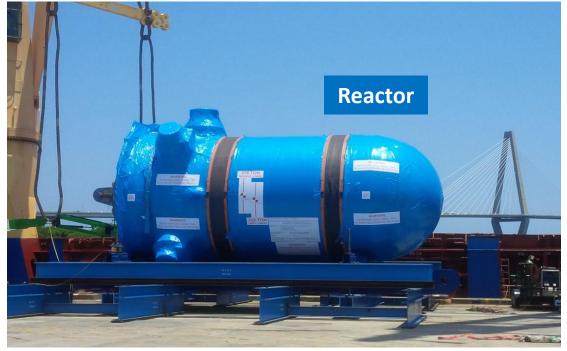
























### Firing Range Complete



## **Local Companies Involved**

•	Glenn and Associates	Surveying	Jenkinsville
•	Gregory Electric	Supplemental electric	Columbia
•	Bagwell fence	Fencing	Spartanburg
•	MB Kahn	Multiple buildings	Columbia
•	Tindall	Precast concrete	Spartanburg
•	ELDECO	NOB electrical design	Greenville
•	Morgan Corporation	Excavating	Duncan
•	Fluor Nuclear	Construction	Greenville
•	Port of Charleston	Incoming Shipments	Charleston
•	Tate Metalworks	Water Plant Storage Tanks	Roebuck
•	Carolina Energy Solutions	Specialty Welding and Pipe	Rock Hill
•	Tom Brigman Contractors	Directional Boring Services	Newberry
•	Ashmore Concrete	Concrete Pumping	Summerville
•	Thompson Turner	Support structures	Sumter
•	Thompson Industrial	Vacuum Excavation	Sumter
•	Penhall Company	Concrete Services	Cayce
•	Universal Blastco	Condenser Waterbox Liners	Sumter
•	Palmetto Rock Services	Rock Blasting	Duncan

Columbia

Soil stability

• SME Inc.

