VC Summer 2 & 3 – Construction Site 2014



Unit 2 Nuclear Island







Unit 2 Nuclear Island



Unit 2 Containment Vessel Lower Ring

- Four Courses
- A lower and an Upper Equipment Hatch
- A lower and an Upper Personnel Hatch

An external Stiffener





Containment Vessel

Unit 2 Unit 3

Top Head

Ring 3

Ring 2

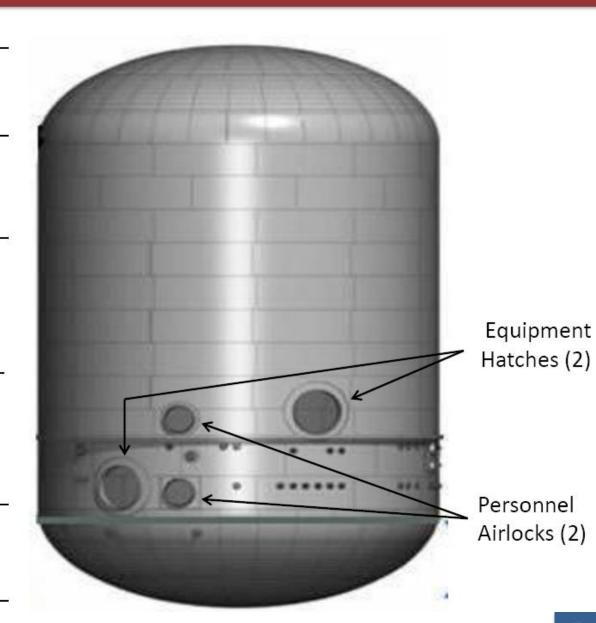


Ring 1

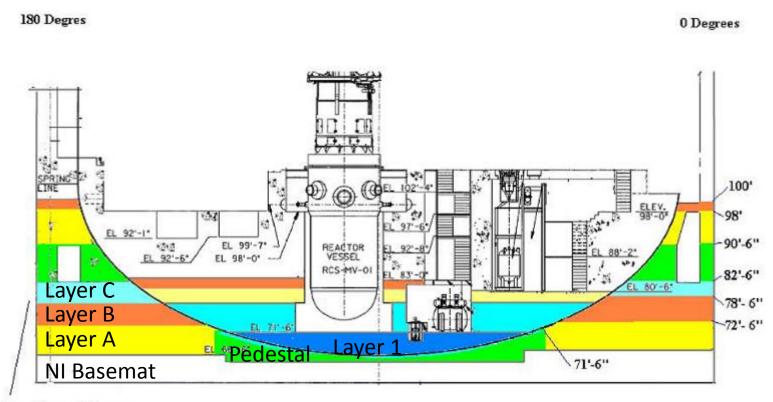


Bottom Head





Containment Vessel Concrete Layers

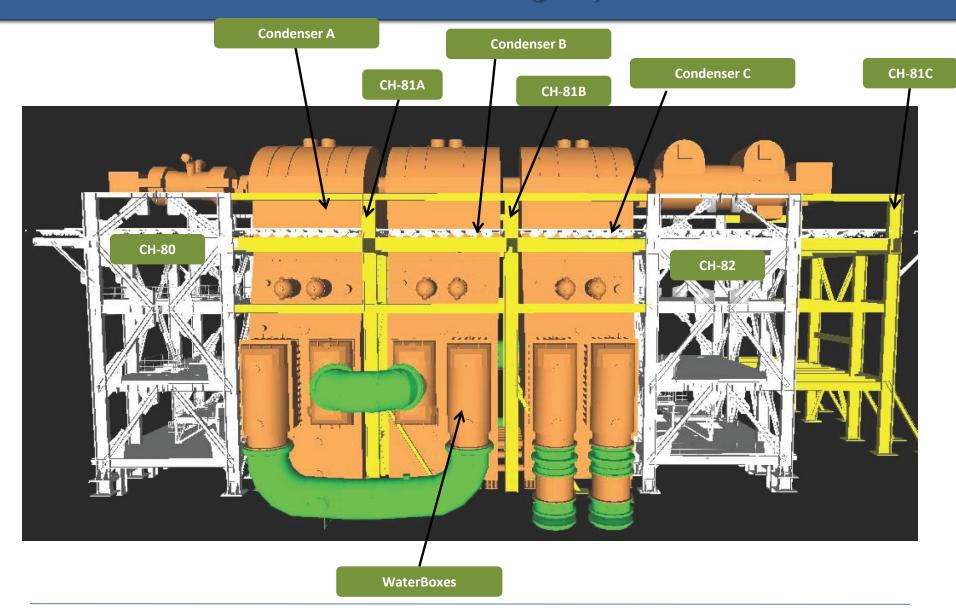


Same Elev as 0 Degrees

CONCRETE CONSTRUCTION JOINTS

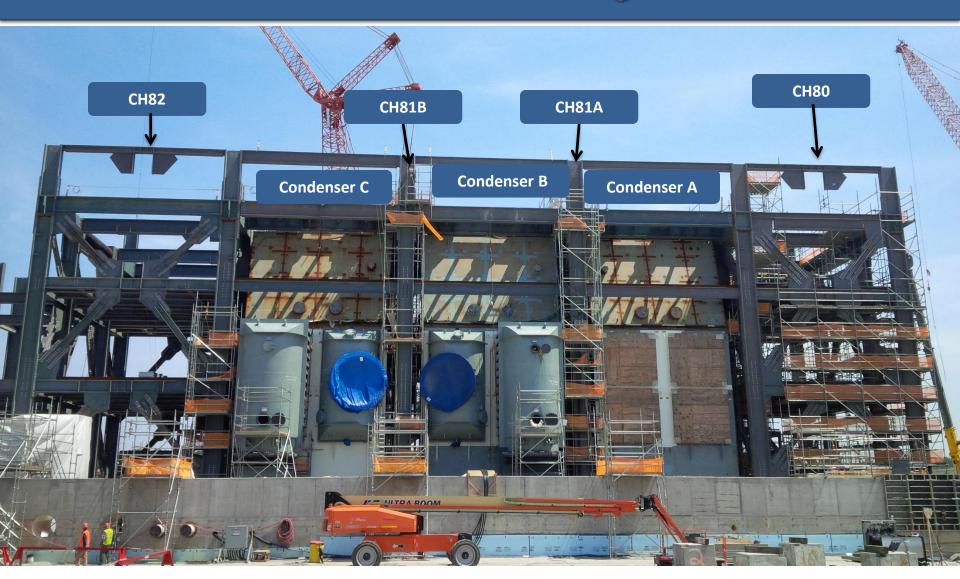


Turbine Building Layout



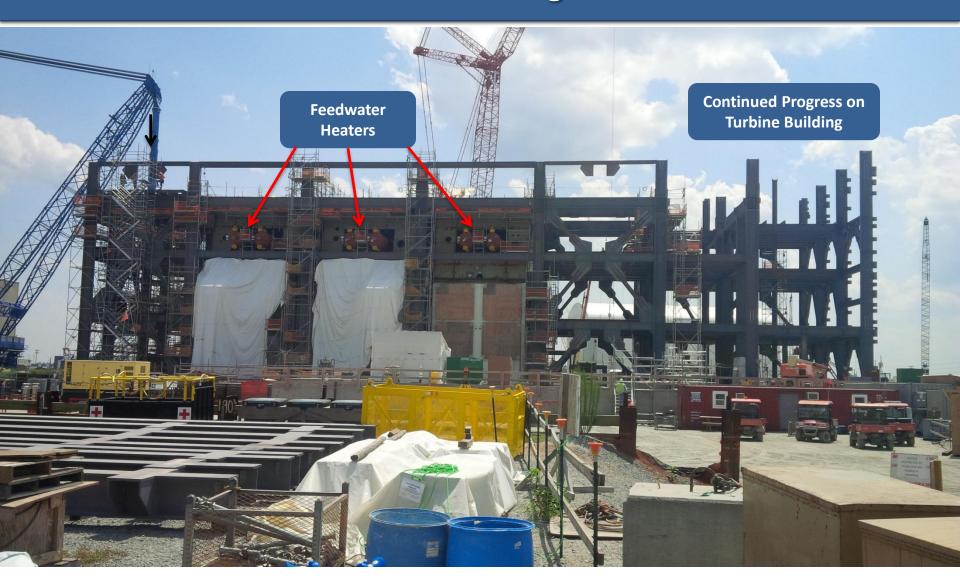


U2 Turbine Building





U2 Turbine Building Eastside





U2 Turbine Building Northside





Upcoming 2014 Construction Milestones

Unit 2

Nuclear Island

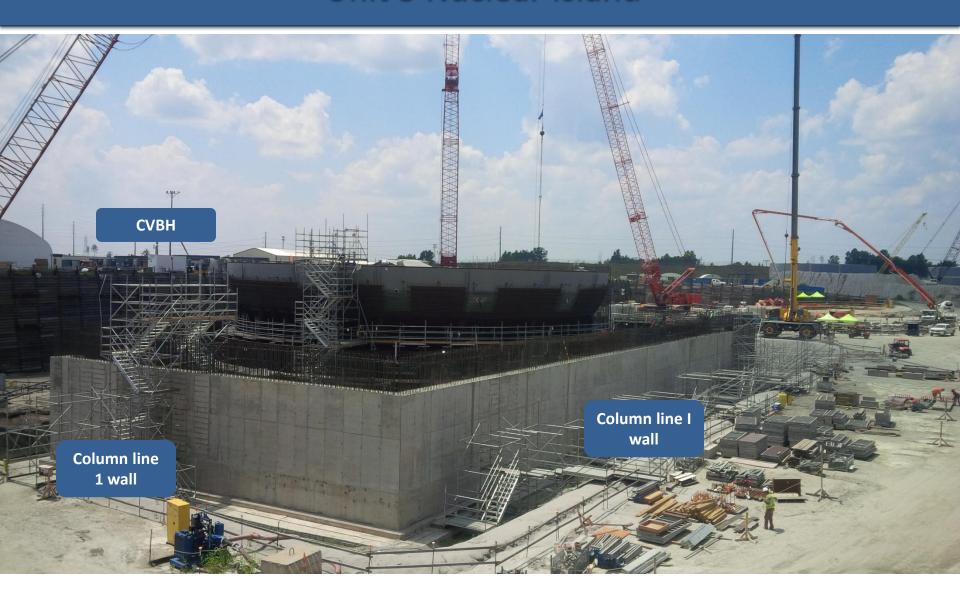
- Place Concrete in CA20
- Fabricate and Set CA05—CVS / Access Tunnel / PXS-B Walls
- Fabricate and Set CA01—Steam Generator and Refueling Canal
- Fabricate and Set CA02 IRWST / Pressurizer Wall
- Fabricate and Set CA03 IRWST Southwest Walls
- Set First-Floor Mechanical Modules
- Start Shield Building

Turbine Building

- Complete Condenser component installation
- Complete foundation at Elevation 100'0"
- Start First-Bay foundation



Unit 3 Nuclear Island





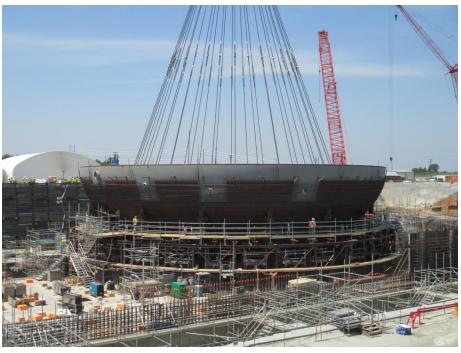
Unit 3 Nuclear Island





Unit 3 Containment Vessel Bottom Head



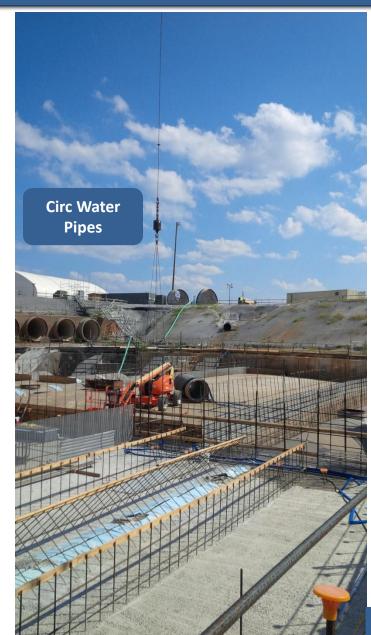




Unit 3 Turbine Building Area







Upcoming 2014 Construction Milestones

<u>Unit 3</u>

Nuclear Island

- Set Containment Vessel Bottom Head (CVBH)
- Grout CVBH
- Place first level of concrete in CVBH
- Fabricate and Set CA04—Reactor Vessel Cavity
- Place Auxiliary Building walls A2 Elevation (66'6"-82'6")

Turbine Building

- Complete Backfill
- Install 82'6" basement foundation and walls
- Fabricate and install Condenser components
- Install CH Structural Steel modules



Units 2 & 3 Construction Milestones – Completed

- Unit 2 FNC, 3/11/13, 7000 cubic yards of concrete
- Unit 2 CR10 set, 4/3/13
- Unit 2 Containment Vessel Bottom Head placed, 5/22/13
- Unit 3 FNC, 11/4/13
- Unit 2 CV Ring 1
- Unit 3 CV Bottom Head

- Switchyard energized
- Cooling Tower 2A structure erected
- Unit 2 Turbine Building Basemat & Basement Walls placed
- Unit 2 Condensers set 12/30/13
- Unit 2 CH80 & CH82 steel set





Unit 3 Core Makeup Tanks

Units 2 & 3 Accumulator Tanks



Unit 2 Turbine Stator

Units 2 Turbine Waterbox

Unit 2 Main Step Up Transformers - 230/26kV

- Assembly weight with oil 529,800lbs each
- 3 in service, 1 spare
- 12,720 gallons each
- Stored Air Filled





Lesson Learned

- Green NCV of 10 CFR Part 50, Appendix B, Criterion VII "for failure to assure purchased equipment met procurement and ITAAC requirements"
- Vendor provided the average wall thickness and average outer diameter, but did not provide/retain the data that supported the average
- The average values were used to obtain the "calculated volume" of the accumulator tanks
- Error required the tanks to be re-measured onsite
- ITAAC team is now more involved in the procurement process to ensure documentation will support ITAAC closure



Questions

