



NUCLEAR | South Carolina's Clean Energy Solution



# VC Summer Unit 2/3 Update

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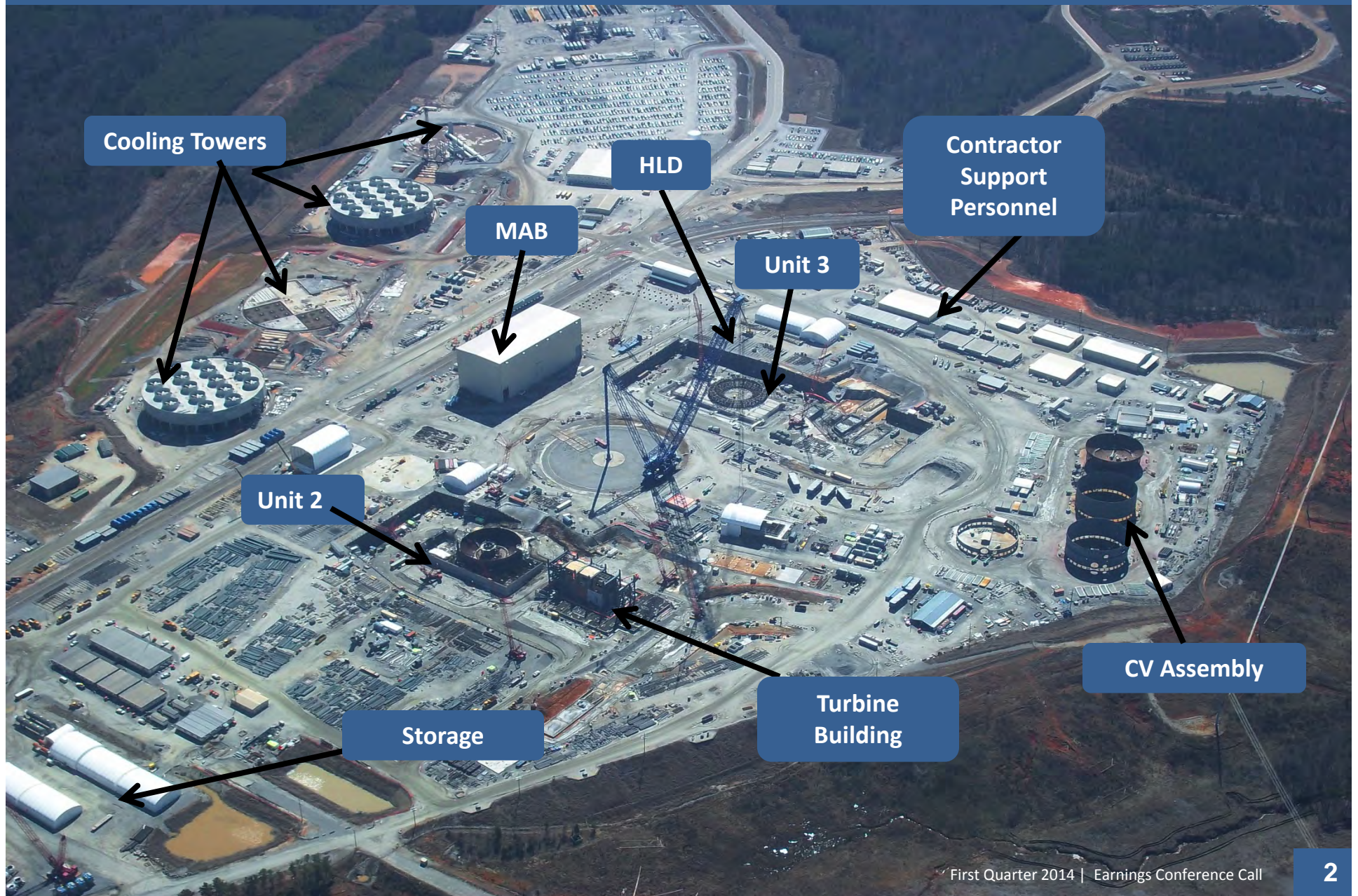
Alan Torres

New Nuclear Deployment  
SCANA/South Carolina Electric & Gas

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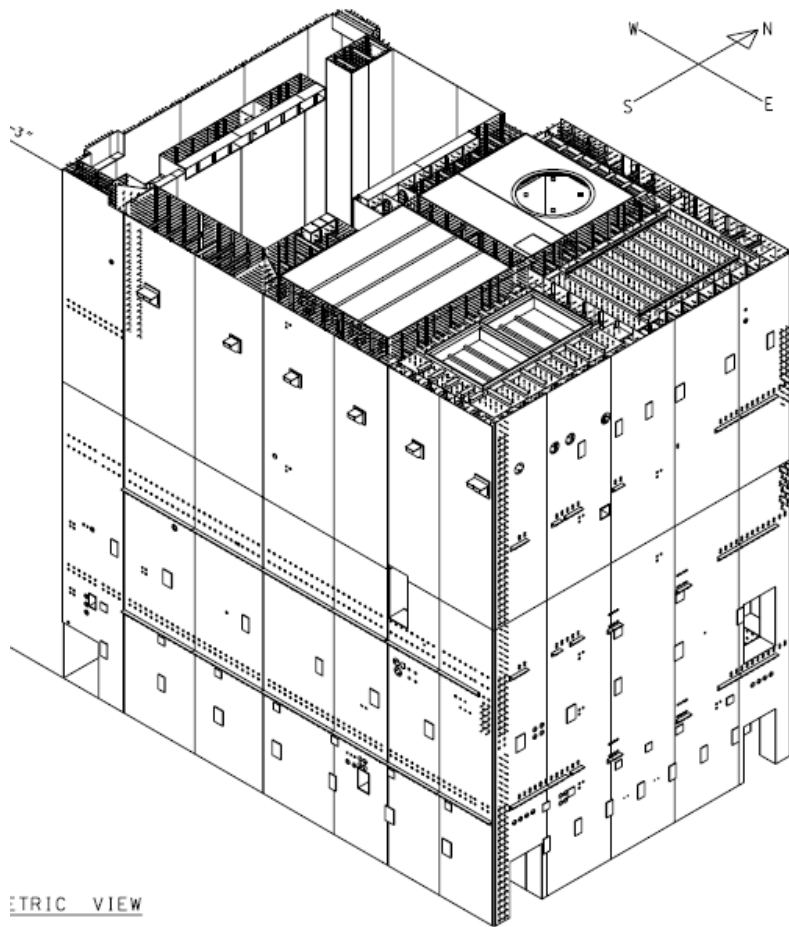
# NND Site Aerial View





## Unit 2 Module CA-20

- Module CA-20 is the Auxiliary Building and Fuel Handling area
- On hook date is May 2014

















# Unit 2 Nuclear Island



Inside Unit 2 Containment Vessel



Aux Building



# Unit 3 Nuclear Island

CR-10 module





# New Nuclear Project

U3 Containment  
Vessel Bottom Head



U2/U3 Containment  
Vessel Rings



U2 CWS Pump  
House Excavation

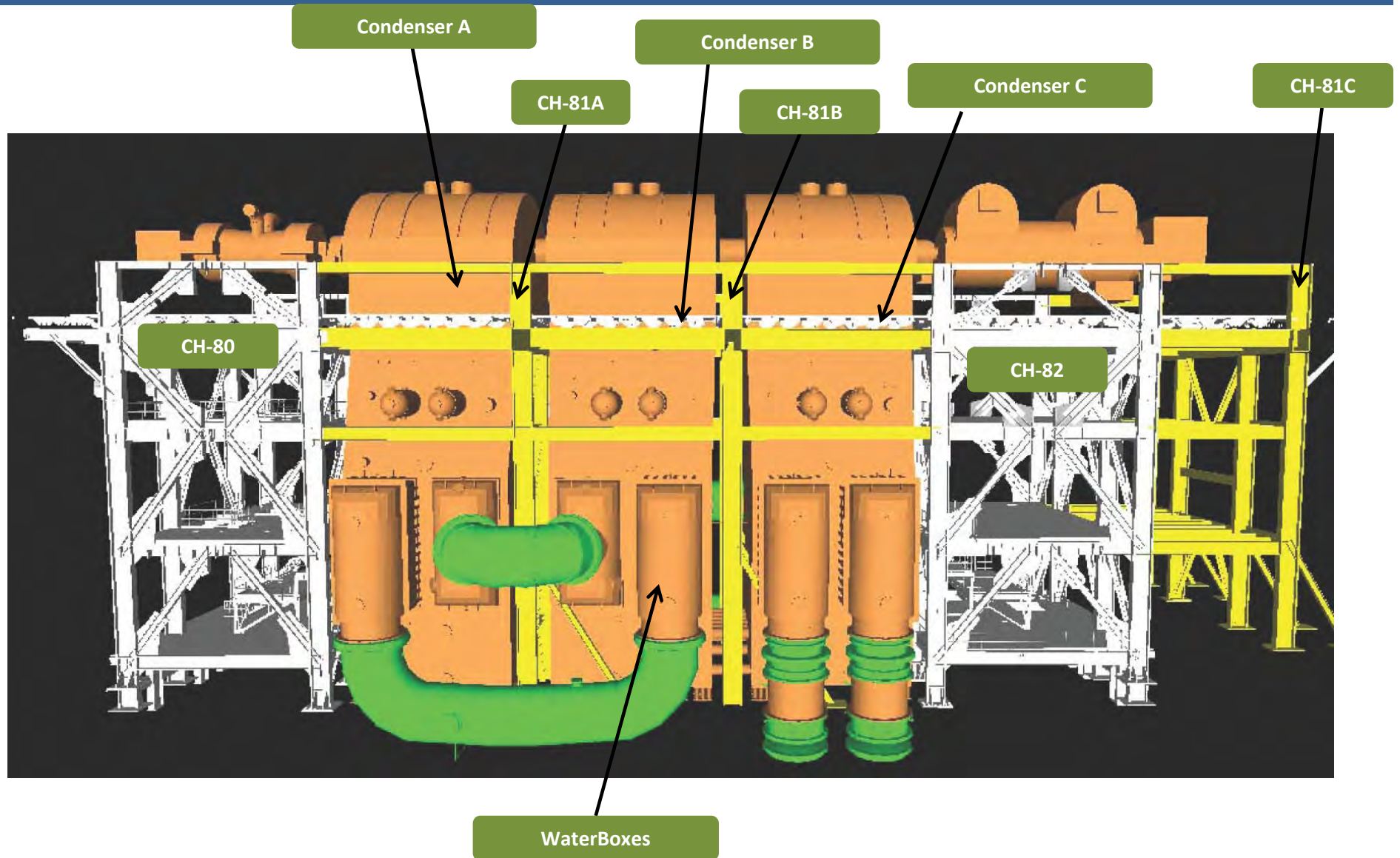


Offsite Water  
Treatment



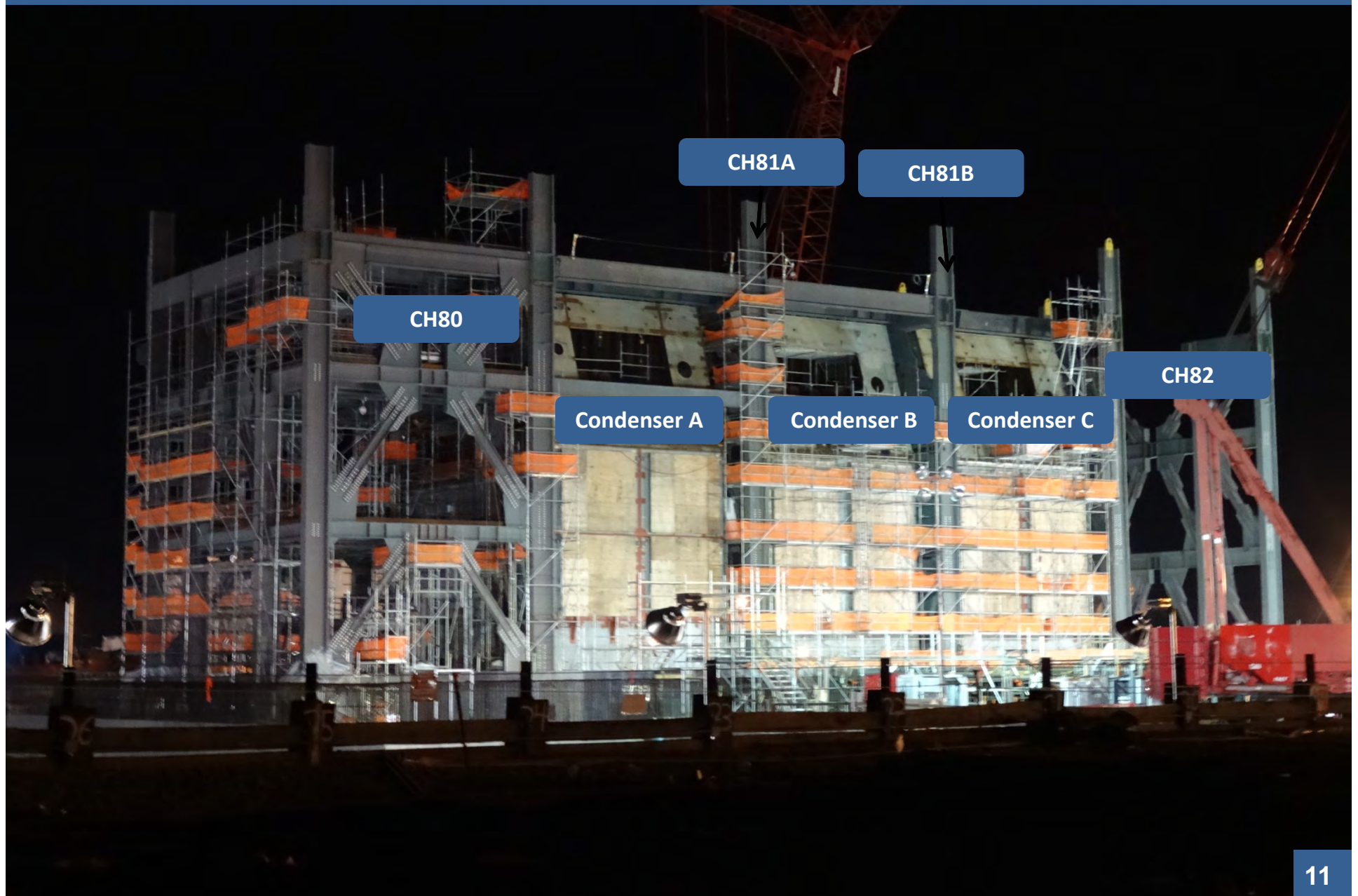


# Turbine Building Layout





# U2 Turbine Building





# Components Arriving on Site





# Upcoming 2014 Construction Milestones

## Unit 2

### **Nuclear Island**

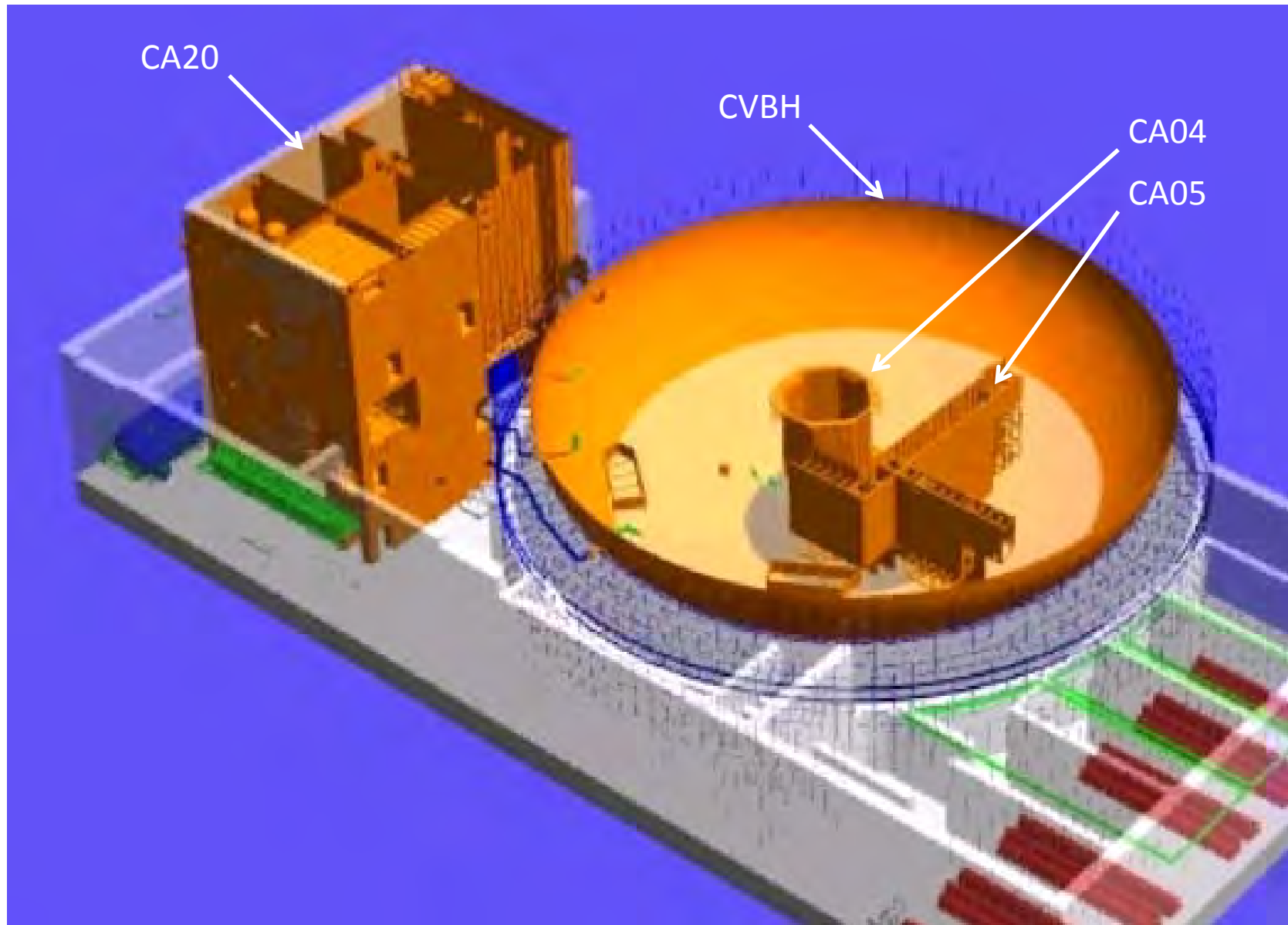
- Set Structural Module CA20—*Auxiliary Building & Fuel Handling area*
- Place Concrete in CA20
- Fabricate and Set CA05—*CVS / Access Tunnel / PXS-B Walls*
- Fabricate and Set CA01—*Steam Generator and Refueling Canal*
- Fabricate and Set CA02 —*IRWST / Pressurizer Wall*
- Fabricate and Set CA03 —*IRWST 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



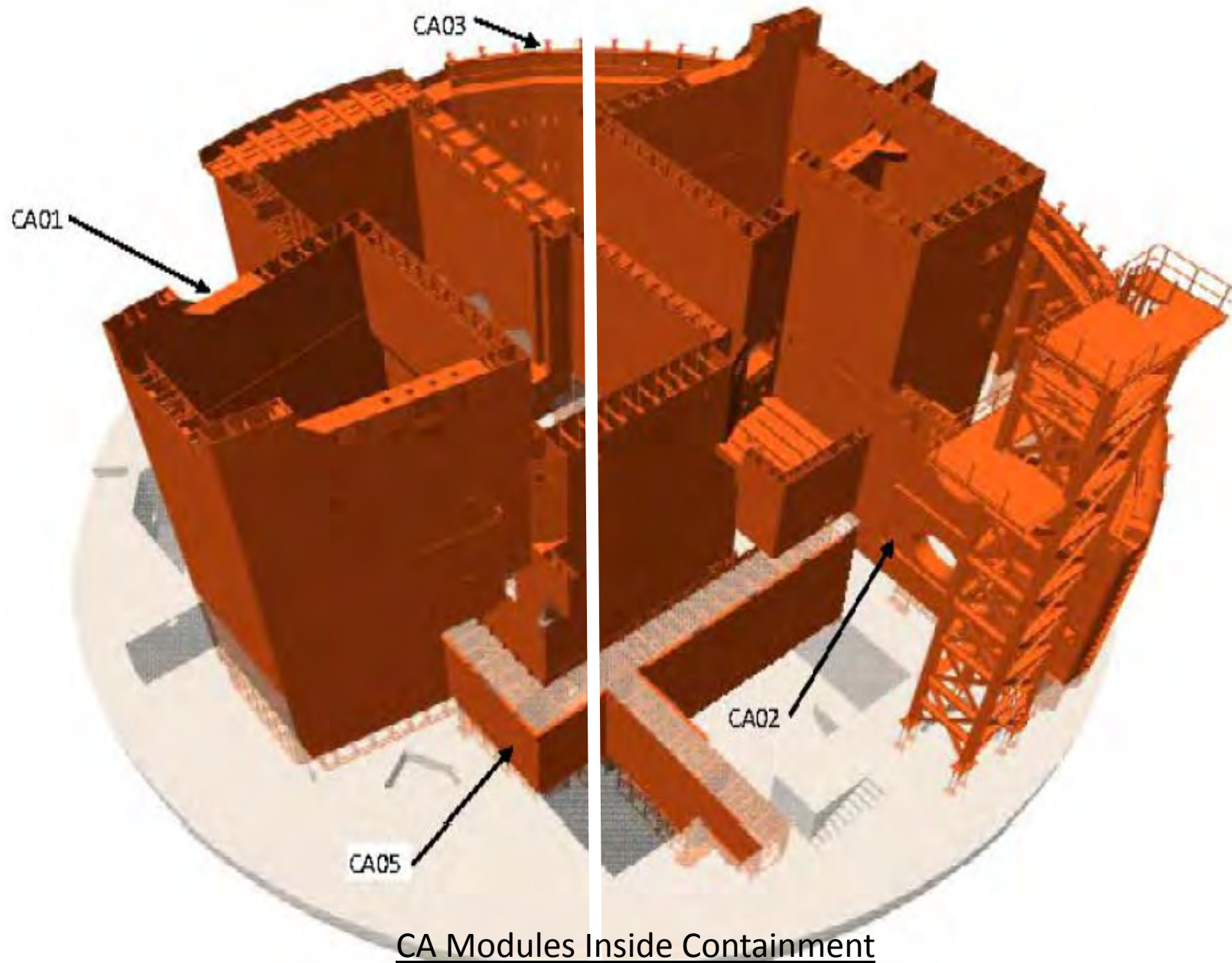
# Upcoming 2014 Construction Milestones



CA Modules in Nuclear Island

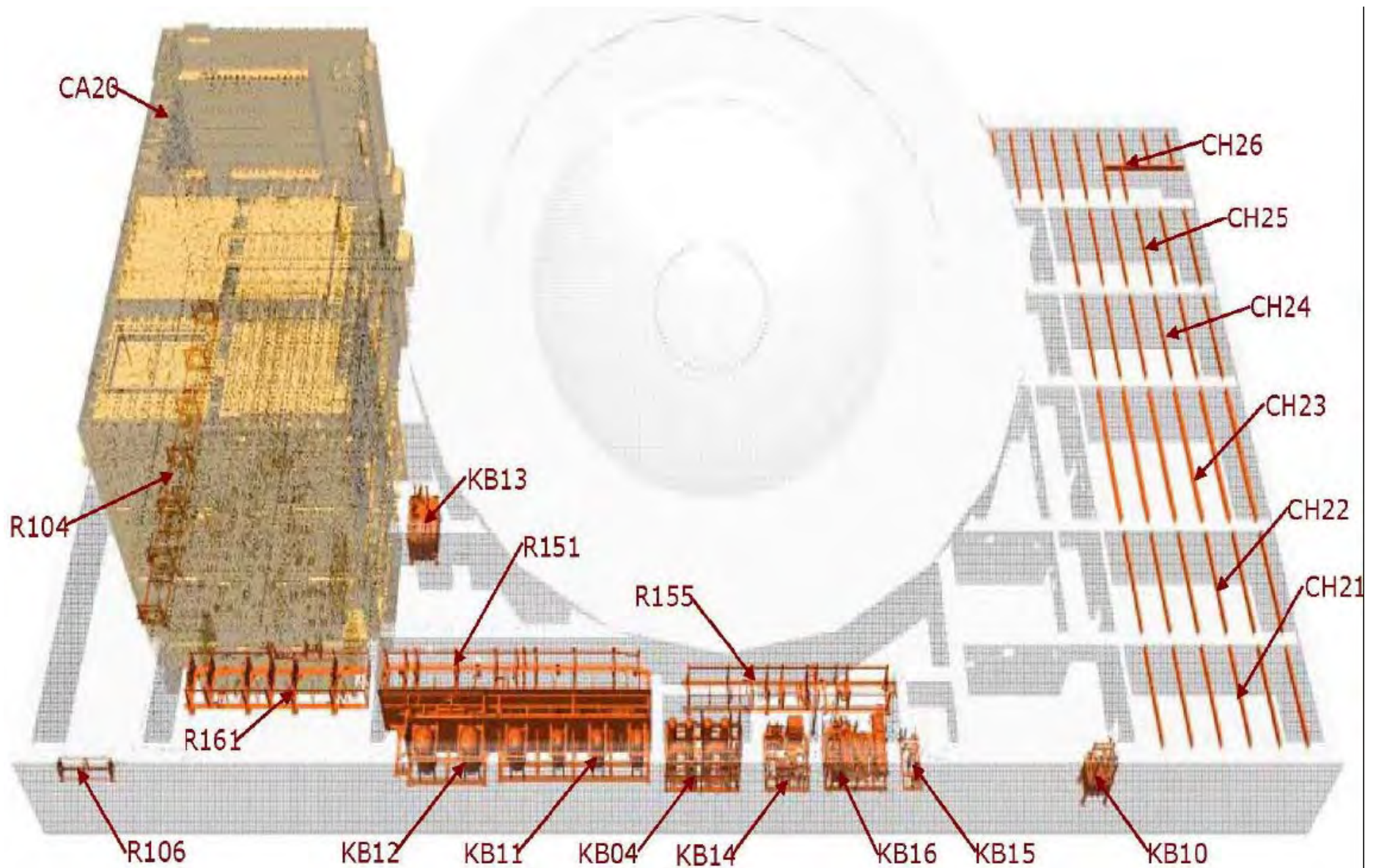


# Upcoming 2014 Construction Milestones





# Upcoming 2014 Construction Milestones



Unit 2 Auxiliary Building First Floor Mechanical Modules



# Upcoming 2014 Construction Milestones

## Unit 3

### **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



# Doosan Manufacturing Update



Unit 2 RV-Ready to Ship



Hydro test Complete for Unit 2A SG



Upper internal welding of Final Vessel for  
Unit 2B SG



# Mangiarotti Manufacturing Update



**CMT – Unit 3 Upper Pedals**



**ACC – Unit 2 – Tanks 1 & 2**



**CMT – Unit 2 Tanks 1 & 2**



**ACC – Unit 3 - Tank 2 – Shell to Lower Crown**

# Toshiba, Keihin - Japan



Generator Rotor



Low Pressure "A" Turbine



Low Pressure "B" Turbine –  
Prep for Blade Assembly



# Questions