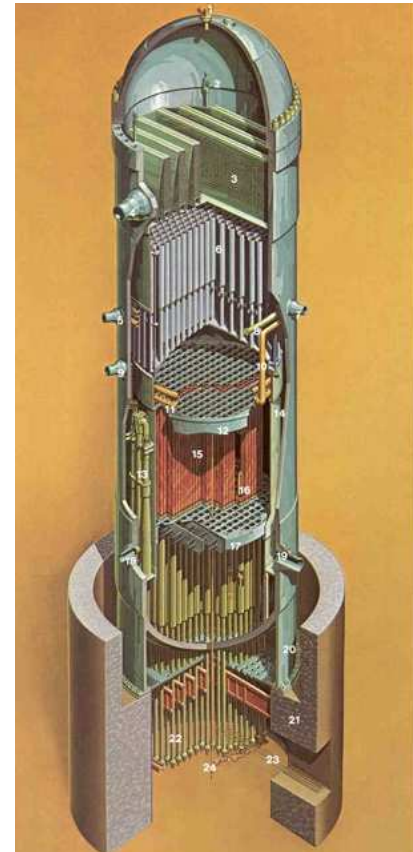
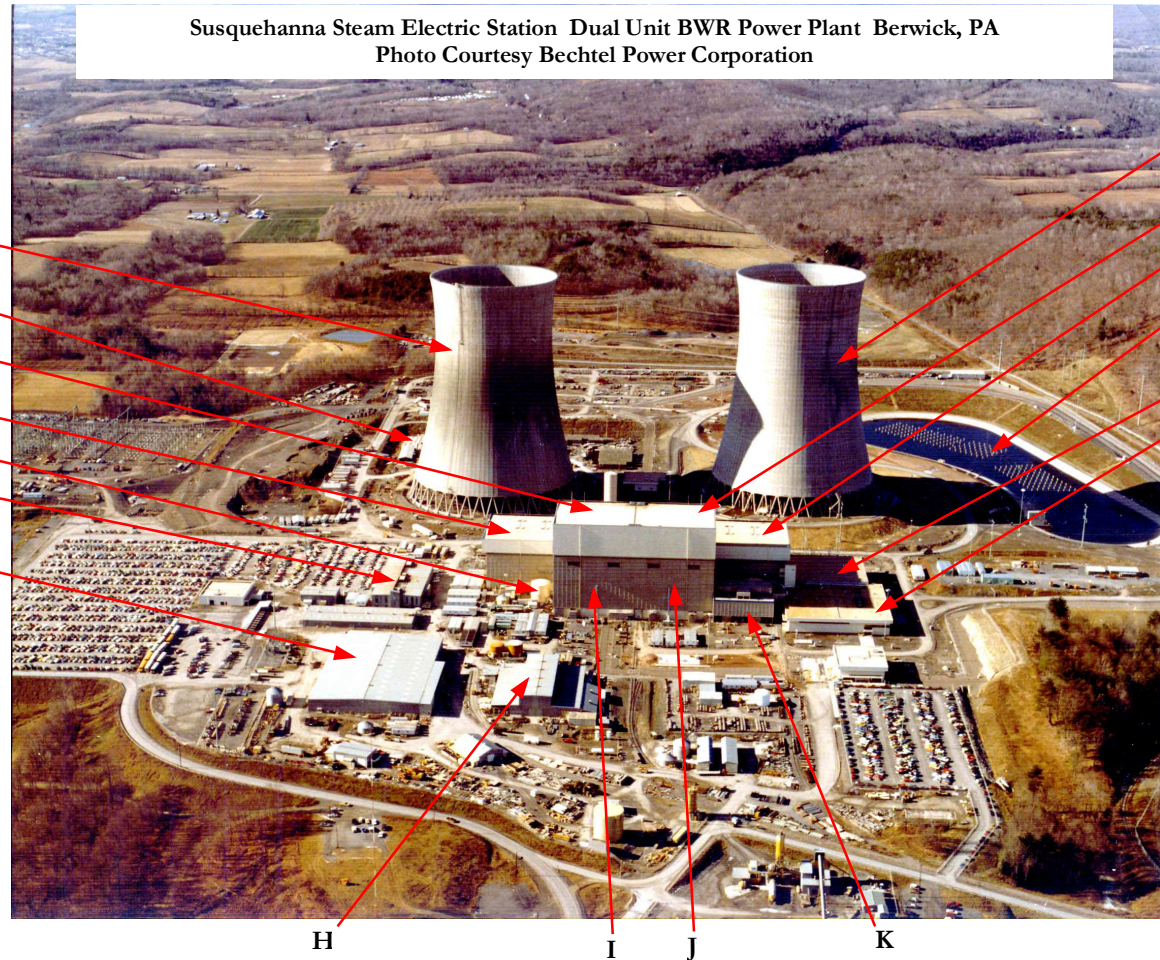
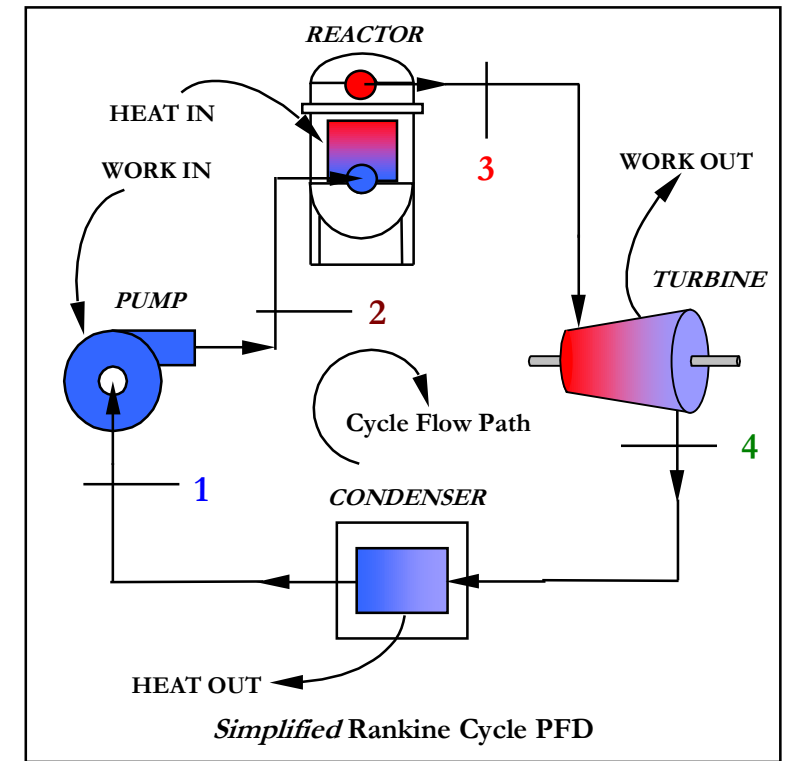


Nuclear Boiling Water Reactor Model 6
Photo Courtesy General Electric



- BWR/6**
REACTOR ASSEMBLY
1. VENT AND HEAD SPRAY
 2. STEAM DRYER LIFTING LUG
 3. STEAM DRYER ASSEMBLY
 4. STEAM OUTLET
 5. CORE SPRAY INLET
 6. STEAM SEPARATOR ASSEMBLY
 7. FEEDWATER INLET
 8. FEEDWATER SPARGER
 9. LOW PRESSURE COOLANT INJECTION INLET
 10. CORE SPRAY LINE
 11. CORE SPRAY SPARGER
 12. TOP GUIDE
 13. JET PUMP ASSEMBLY
 14. CORE SHROUD
 15. FUEL ASSEMBLIES
 16. CONTROL BLADE
 17. CORE PLATE
 18. JET PUMP / RECIRCULATION WATER INLET
 19. RECIRCULATION WATER OUTLET
 20. VESSEL SUPPORT SKIRT
 21. SHIELD WALL
 22. CONTROL ROD DRIVES
 23. CONTROL ROD DRIVE HYDRAULIC LINES
 24. IN-CORE FLUX MONITOR
- GENERAL ELECTRIC

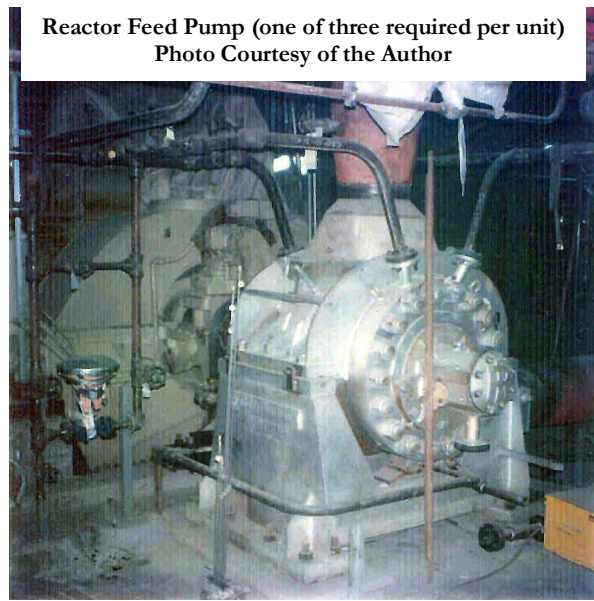
PFD Process 2 to 3



Susquehanna Steam Electric Station Dual Unit BWR Power Plant Berwick, PA
Photo Courtesy Bechtel Power Corporation

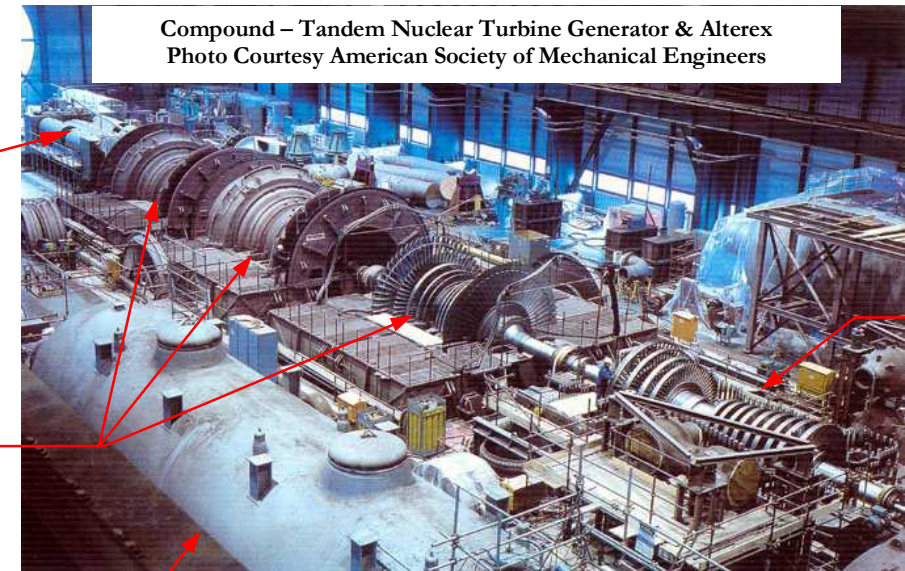
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P
- Q

- Site Structure Identification**
- A – Unit 1 Cooling Tower
 - B – Rad Waste Cask Storage Building
 - C – Unit 1 Reactor Building
 - D – Unit 1 Turbine Building
 - E – Service Water Storage Tank
 - F – Bechtel Construction Engineering Building
 - G – Site Warehouse
 - H – Start Up Engineering Building
 - I – Unit 1 Containment Structure (in center of Reactor Bldg.)
 - J – Unit 2 Containment Structure (in center of Reactor Bldg.)
 - K – Emergency Diesel Generator Building
 - L – Client Administration Building
 - M – Rad Waste Building
 - N – Units 1 & 2 Spray Pond
 - O – Unit 2 Turbine Building
 - P – Unit 2 Reactor Building
 - Q – Unit 2 Cooling Tower



Reactor Feed Pump (one of three required per unit)
Photo Courtesy of the Author

PFD Process 1 to 2



Compound – Tandem Nuclear Turbine Generator & Alterex
Photo Courtesy American Society of Mechanical Engineers

- Generator
- LP Turbines
- Moisture Separator
- HP Turbine

PFD Process 3 to 4

Figure 8 Current Day Dual Unit BWR Power Plant 2.4 GW Total Electrical Capacity

