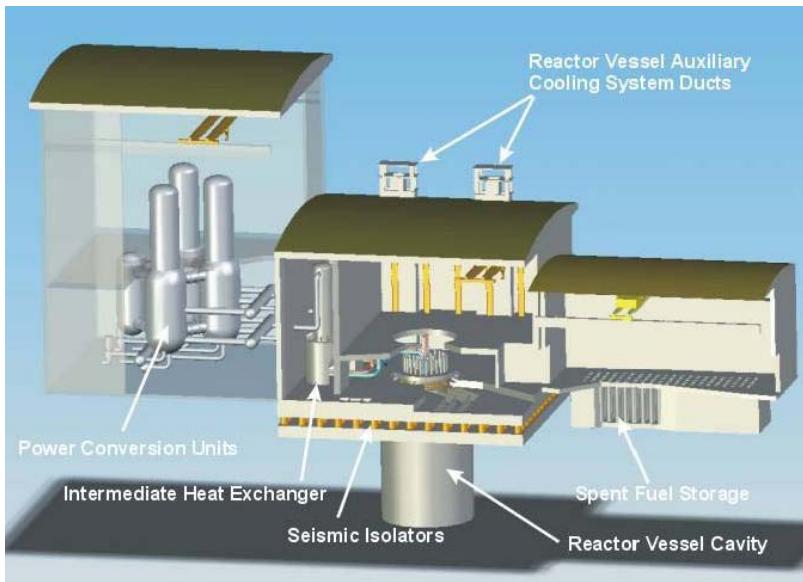
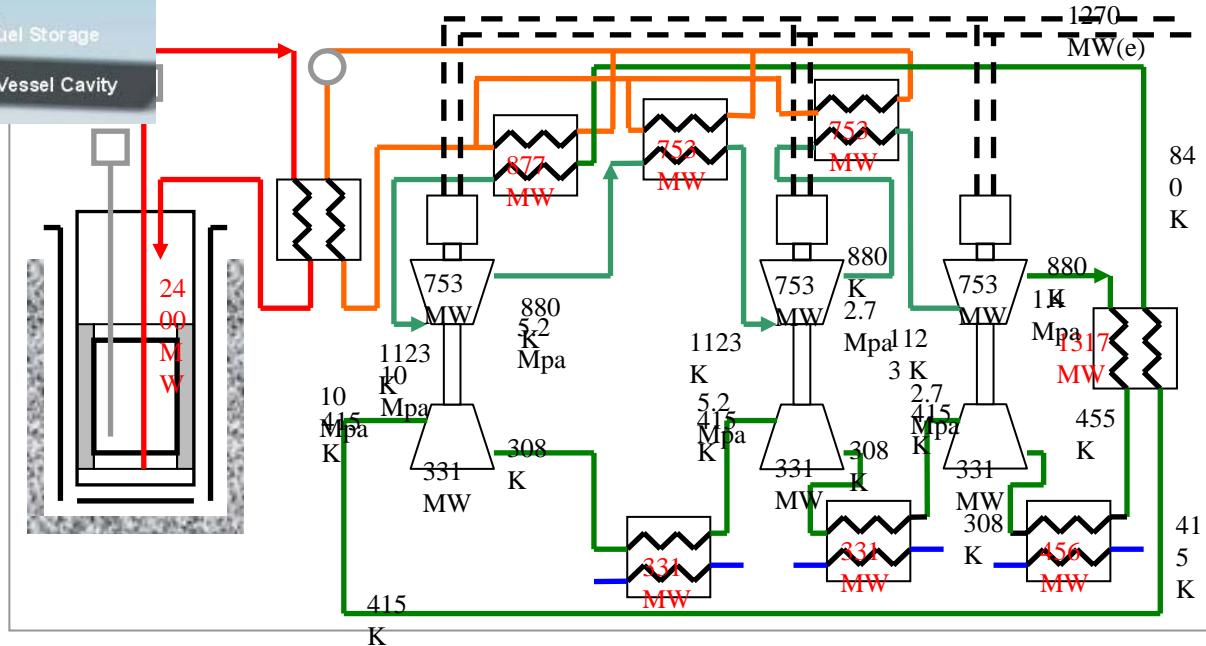


# Currently Developing a Dynamic Simulation Model for DOE's Gen IV LS–Very High Temperature Reactor



## Dynamic modeling—evaluate

- Peak vessel/fuel temps
- Model core flow path
- Transients: core power shifts
- Evaluate coolants salts
- Core configurations/controls



**LS–VHTR is ORNL Developed Design**

- Coated particle graphite-matrix fuel
- Hi-temp lo-pressure molten salt coolant
- 2400 MW(th)—900/1000°C inlet/outlet temp
- Brayton power conversion
- Alternate to hi-temp GCRs