## **Structure of the Chernobyl Nuclear Power Plant**

(Light Water Cooled Graphite-Moderated Reactor RBMK) Control room: There is a switch for turning off the safety system. There is no containment vessel. **Fuel** Mixture of steam & water Steam-water separator Steam→ **Control rods Turbine** Generator Condenser Water **Pressure** Main circulation **Cooling water** pipe pump **Cooling water Pump Moderator:** graphite **Coolant: water** Pump **Chernobyl Reactor Japanese Reactor Self-Limiting Function** Yes May cease to work Coolant Water Water Water **Neutron moderator** Graphite **Safety Equipment** Interlock prevents dangerous operations **Easily defeated** Robust containment vessel covering the reactor core Yes No