Fuel Reprocessing

Objective: Remove feed poisons and fission products from fuel.

Poisons Removed
- Tritium (g)
- Xenon (g)
- Krypton (g)
- Fission products (l)
- Salt impurities (l)

Why Reprocess Fuel?
- Maintain reactor performance
- Decrease stockpile of fuel
- Higher efficiency of fuel
- Continuous operation

Thermal Loop Components
- Turbines: Responsible for power generation
- Compressors: Provide thrust for fluid
- Heat Exchangers: Transfer heat from reactor to thermal loop
  - Heat Recovery for increased efficiency