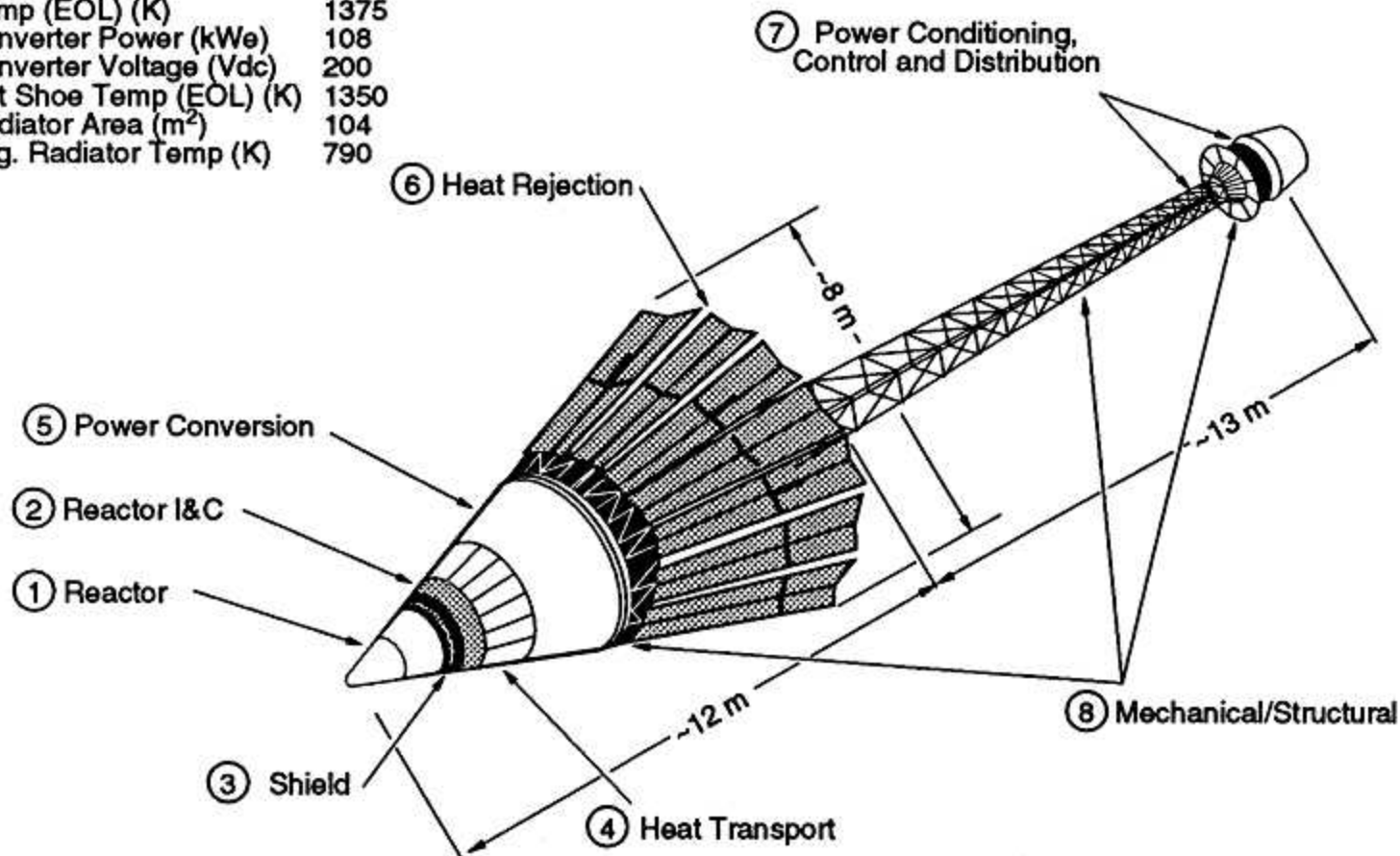


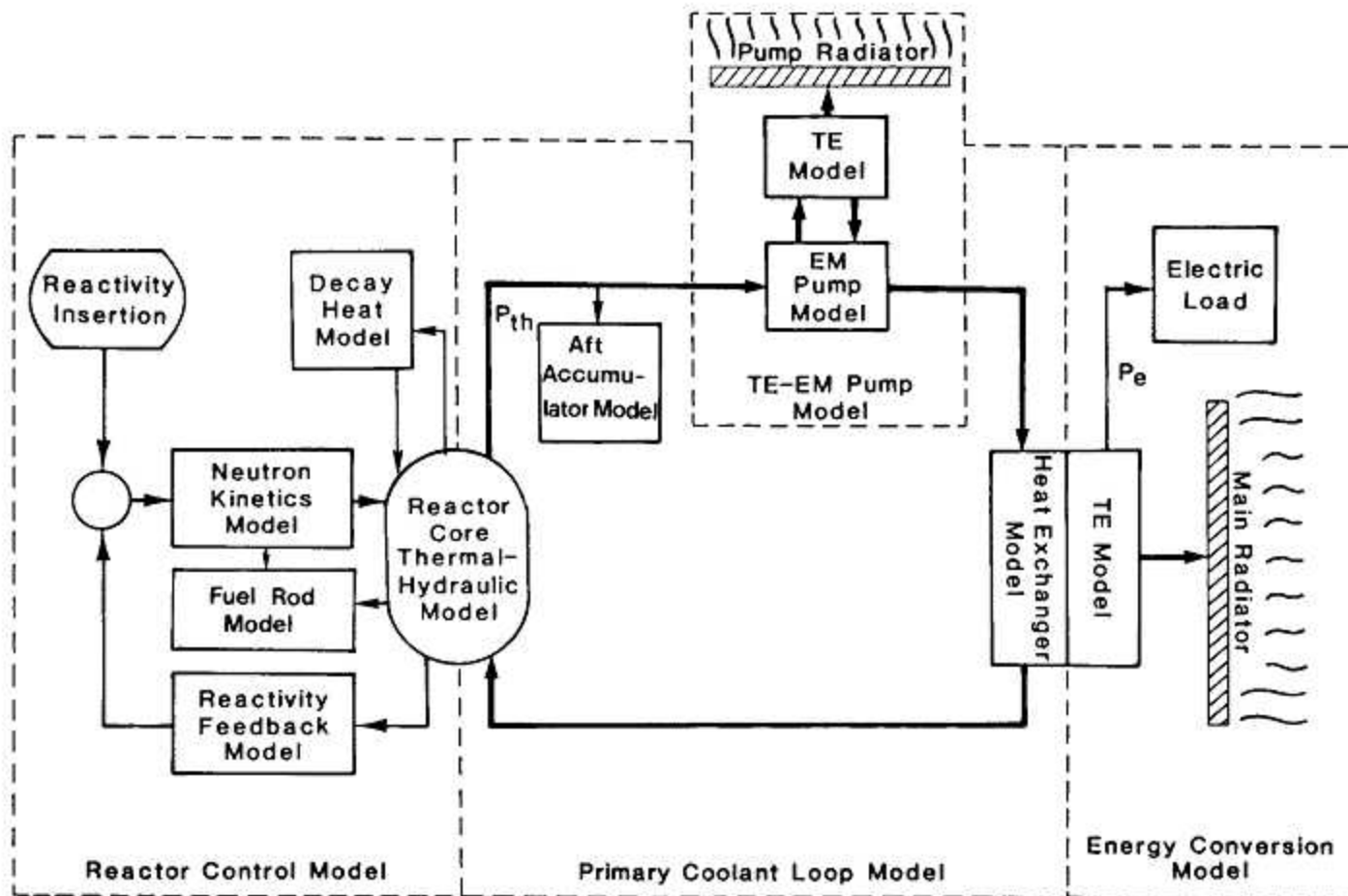
SP-100 Generic Flight System

Key System Parameters

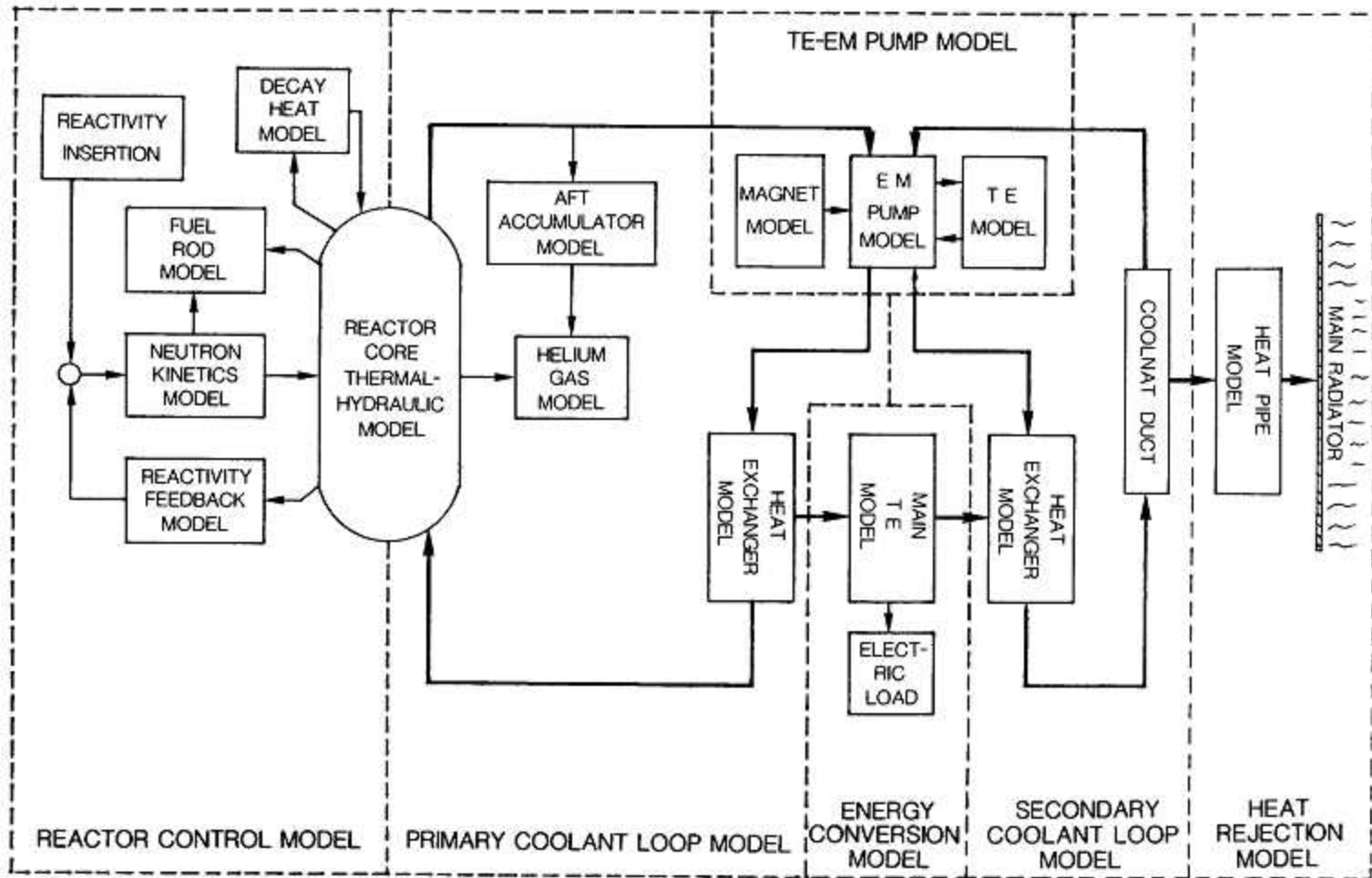
- System Mass (kg) 4600
- Mission/Full Power (y) 10/7
- Reactor Power (MWt) 2.45
- Reactor Outlet Temp (EOL) (K) 1375
- Converter Power (kWe) 108
- Converter Voltage (Vdc) 200
- Hot Shoe Temp (EOL) (K) 1350
- Radiator Area (m²) 104
- Avg. Radiator Temp (K) 790



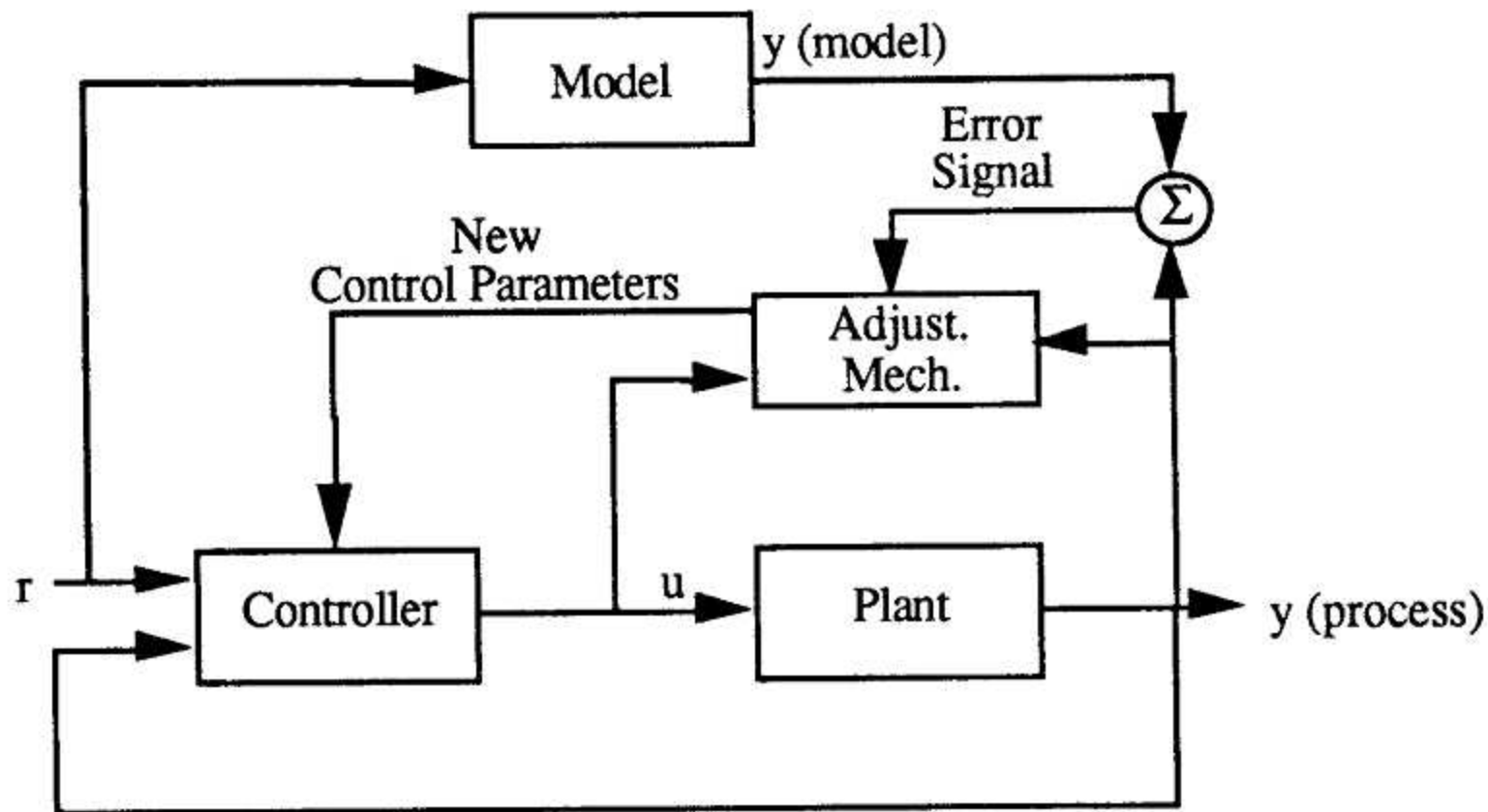
SNPSAM-1 Model of SP-100 System with TE Converters



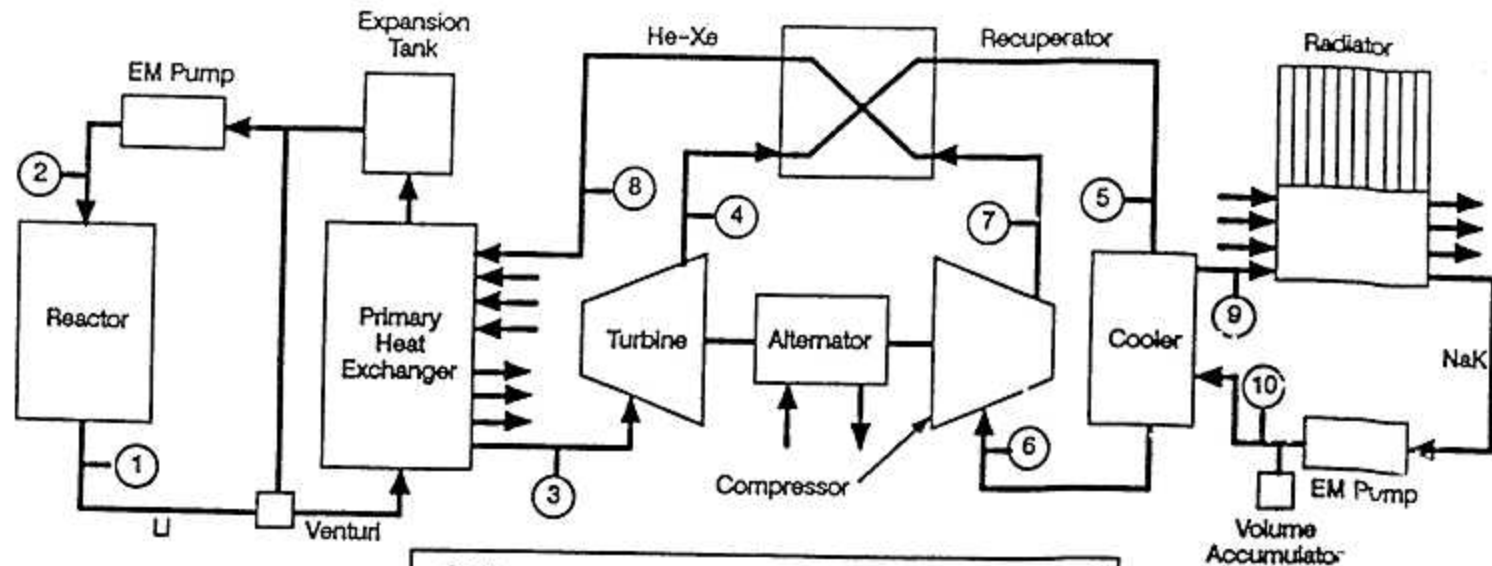
SNPSAM-3 Model of SP-100 System with TE Converters



Model Reference Adaptive Control System



SP-100, 550 kWe Brayton Lunar Outpost Flow Schematic and State Point



State Point	Fluid	Temperature (K)	Pressure (kPa)
1	Li	1355	--
2	Li	1276	--
3	He-Xe	1300	1,280
4	He-Xe	1041	690
5	He-Xe	640	680
6	He-Xe	406	675
7	He-Xe	556	1,340
8	He-Xe	957	1,330
9	NaK	629	--
10	NaK	395	--