



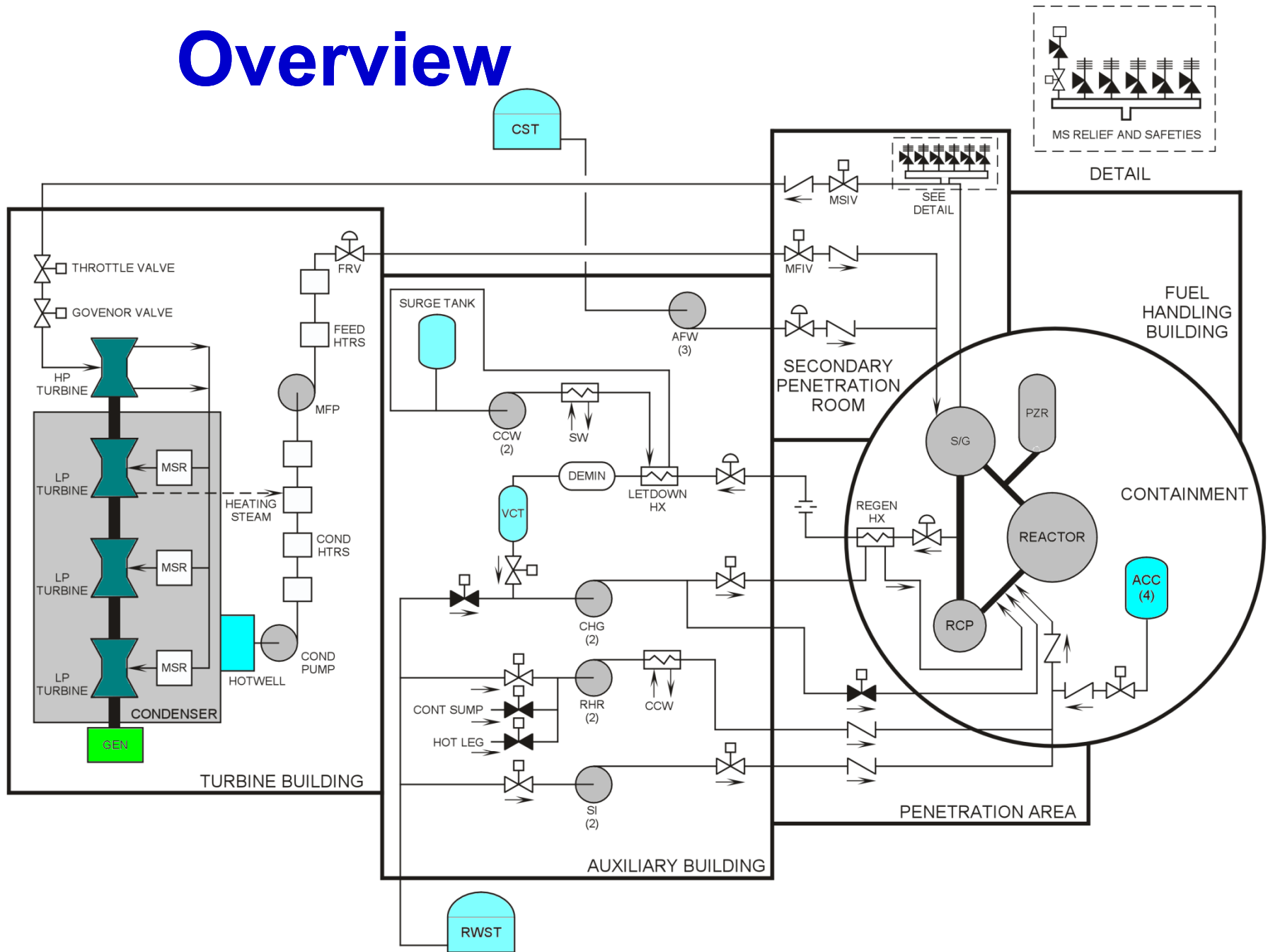
Introduction to Pressurized Water Reactor Systems

Section 1.2

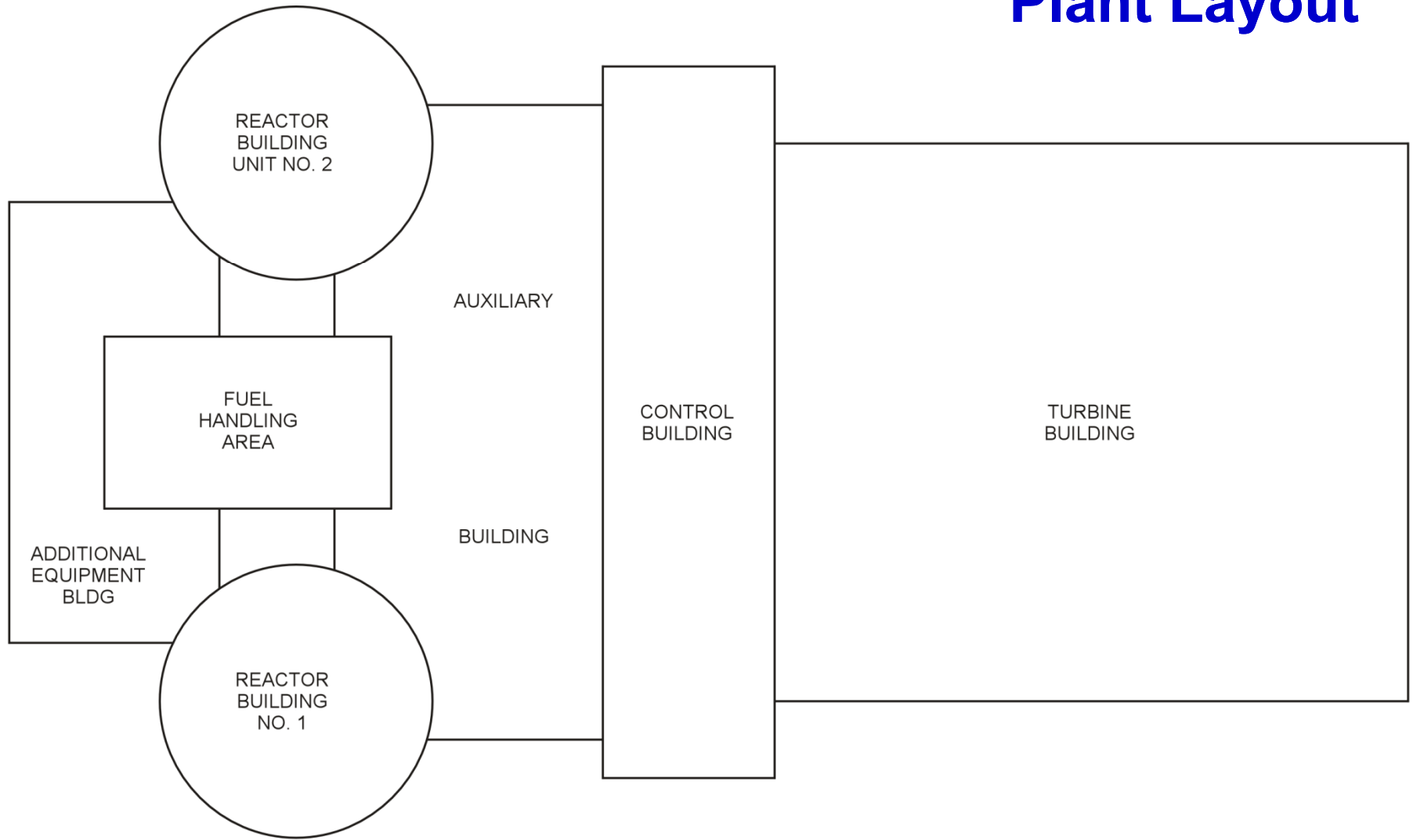
Learning Objectives:

1. Define the following terms:
 - a. Primary cycle,
 - b. Secondary cycle, and
 - c. Reactor coolant system (RCS) average temperature (T_{avg}).
2. Explain why T_{avg} is programmed to increase with an increasing plant load.

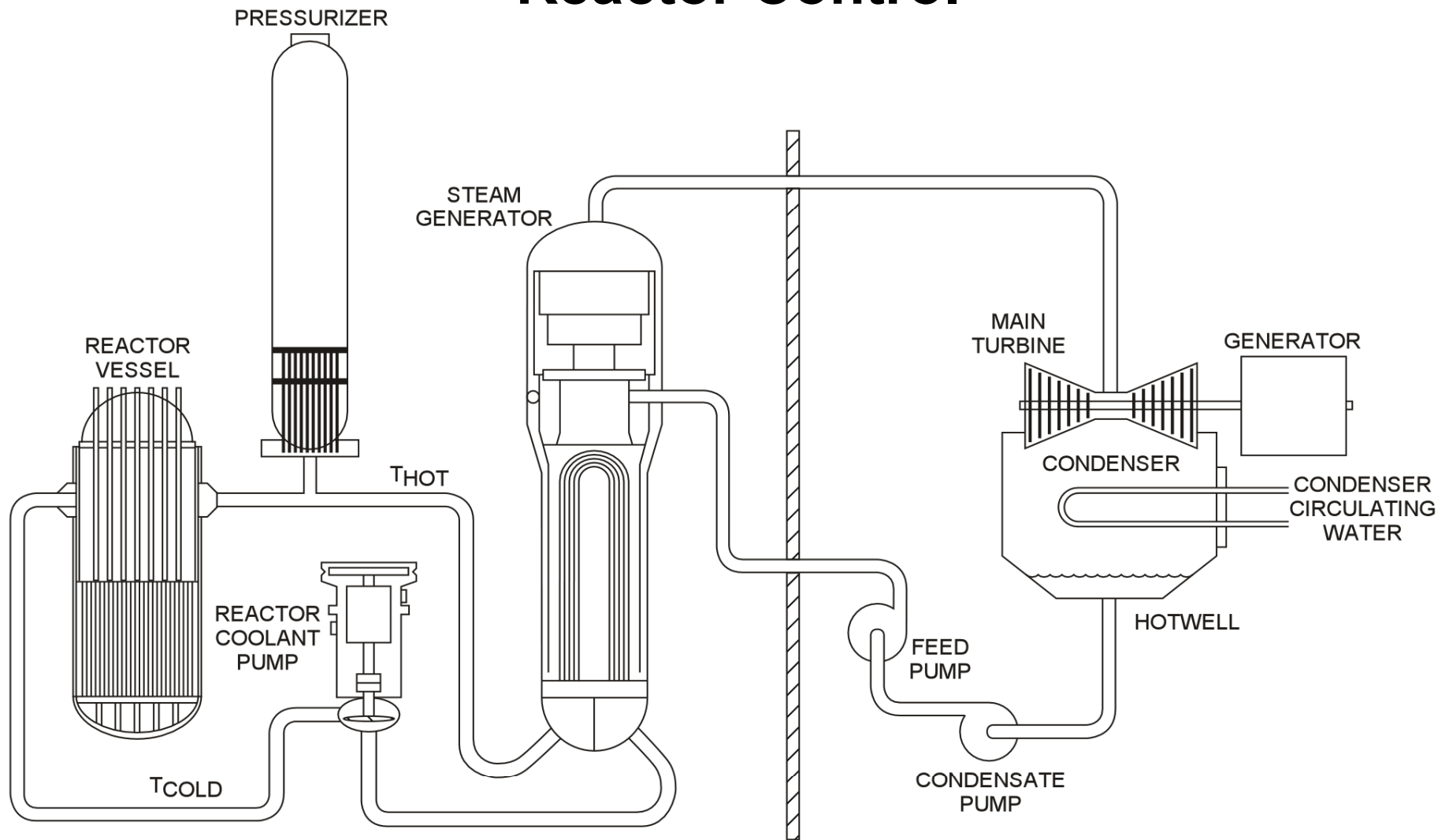
Overview



Plant Layout



Reactor Control



Constant T_{AVE} Control

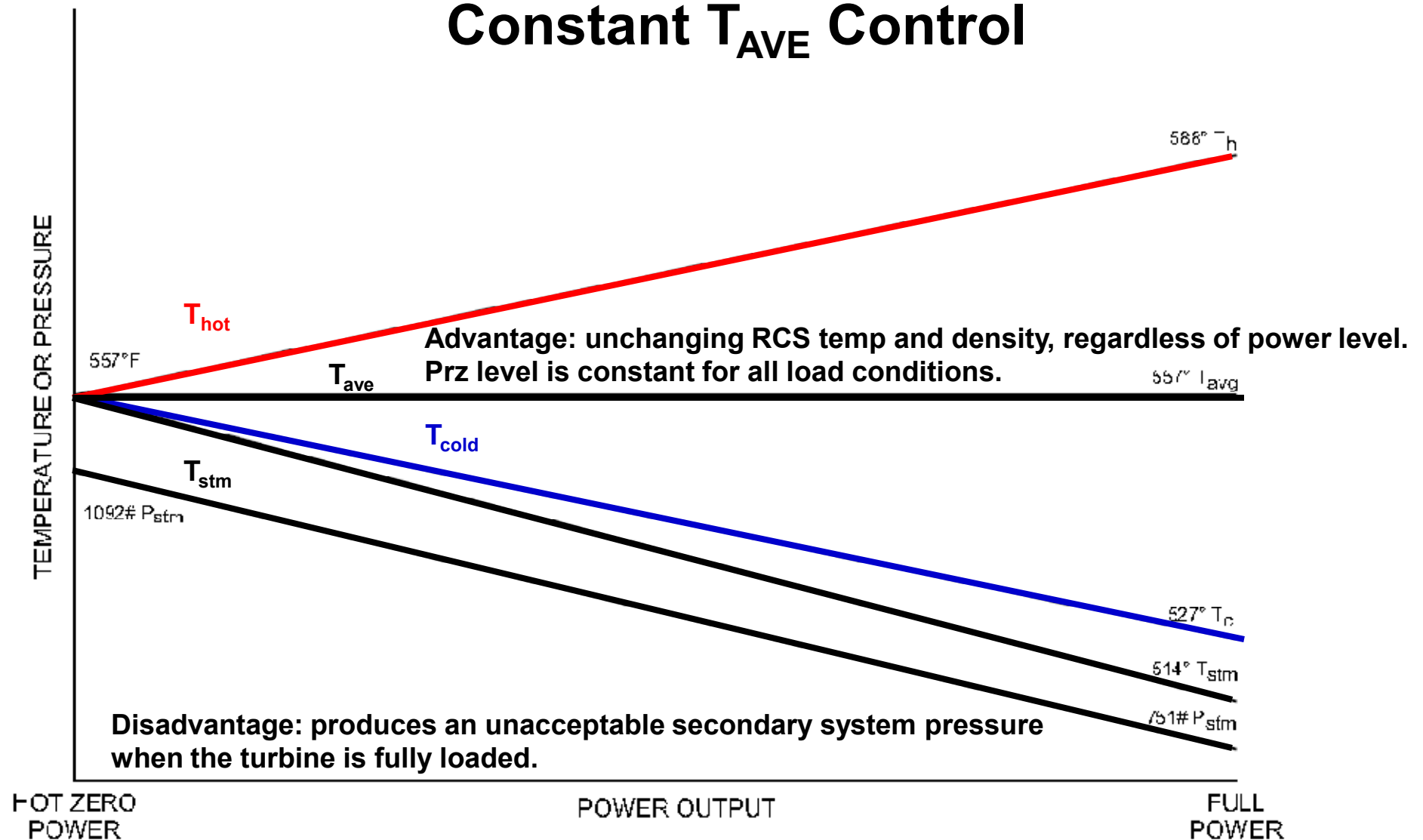


Figure 1.2-3 Characteristics of a Constant Average Temperature Program

Constant Steam Pressure Control

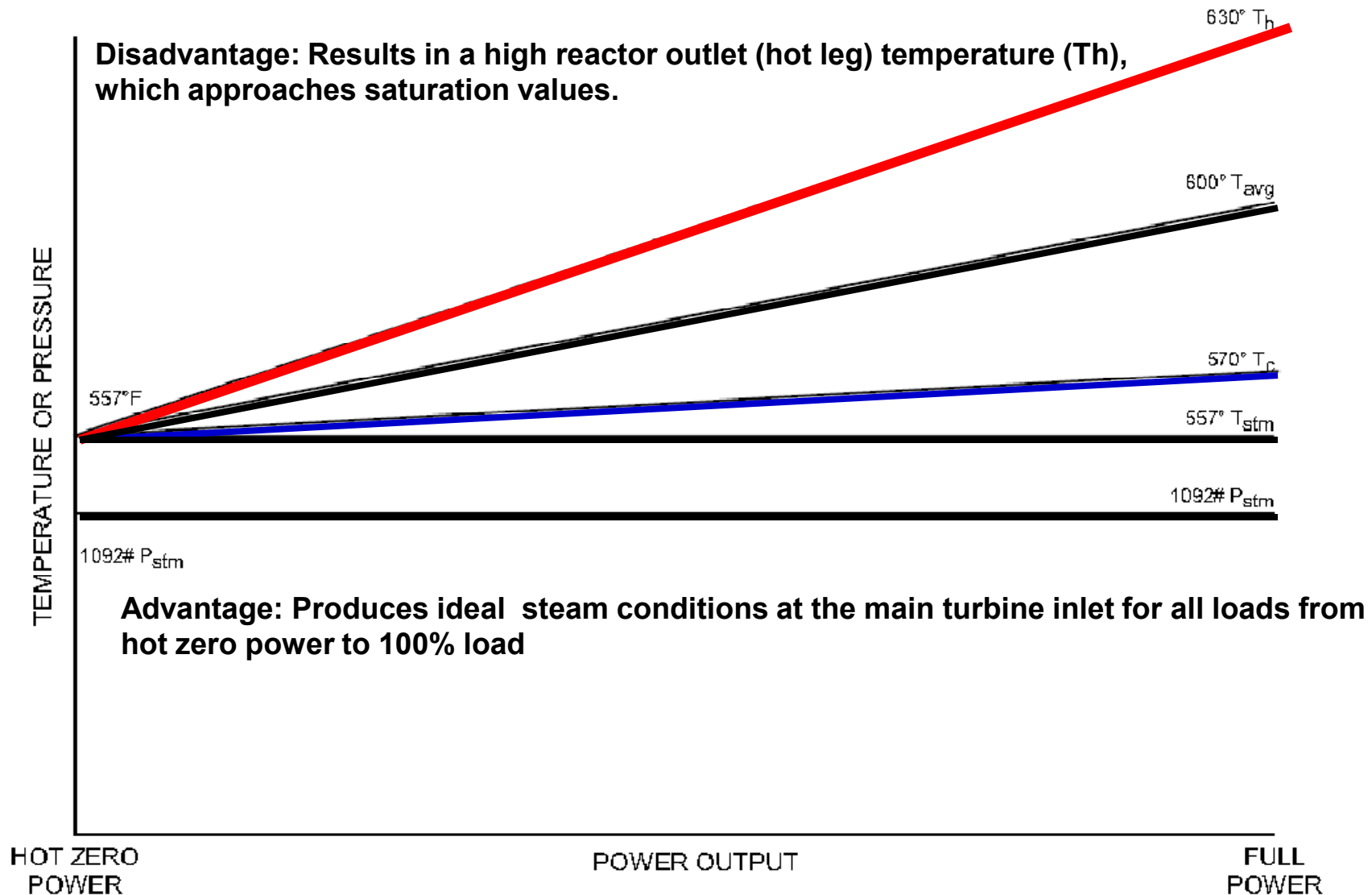


Figure 1.2-4 Characteristics of a Constant Steam Pressure Program

Sliding T_{AVE} Control

