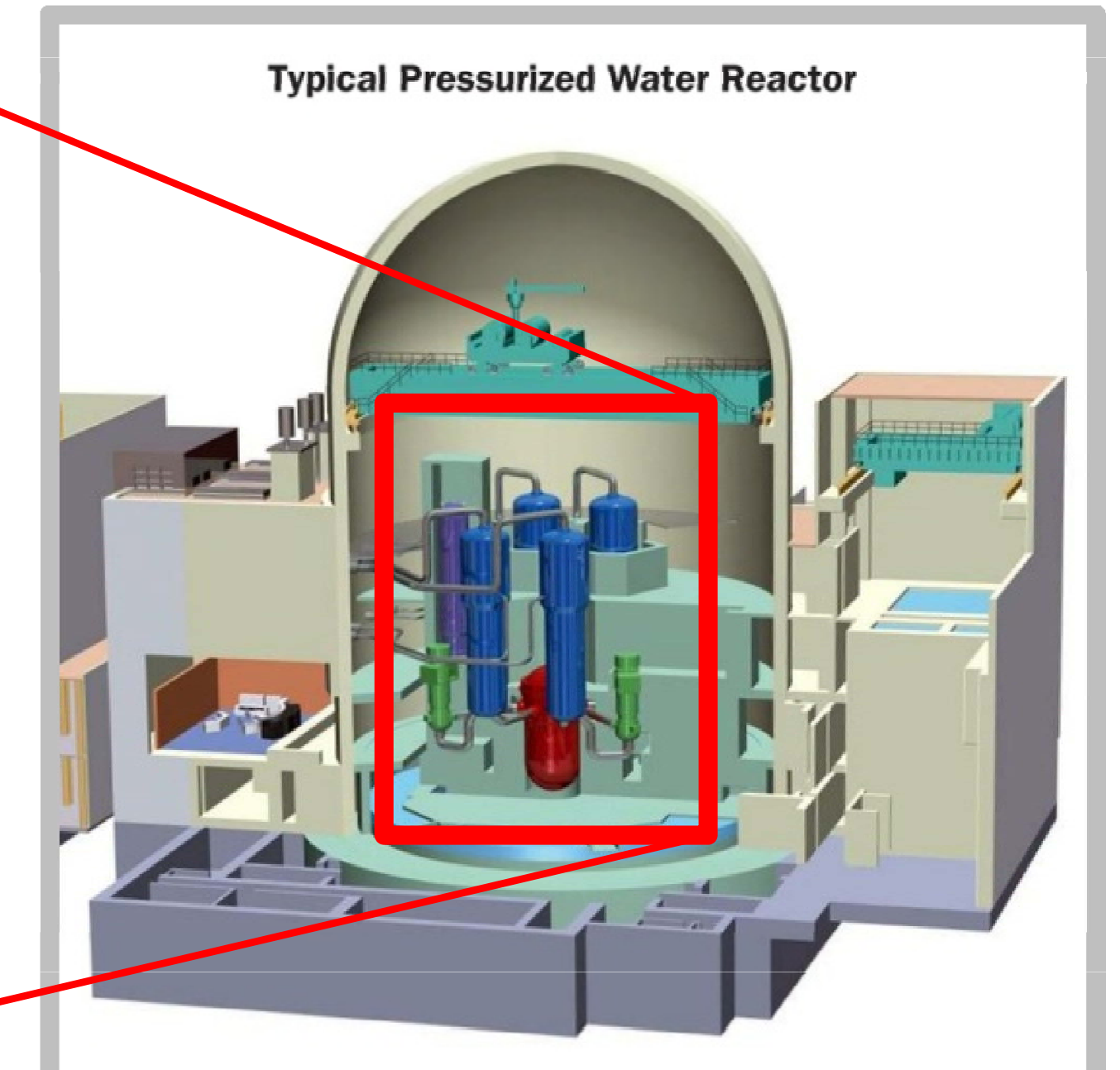
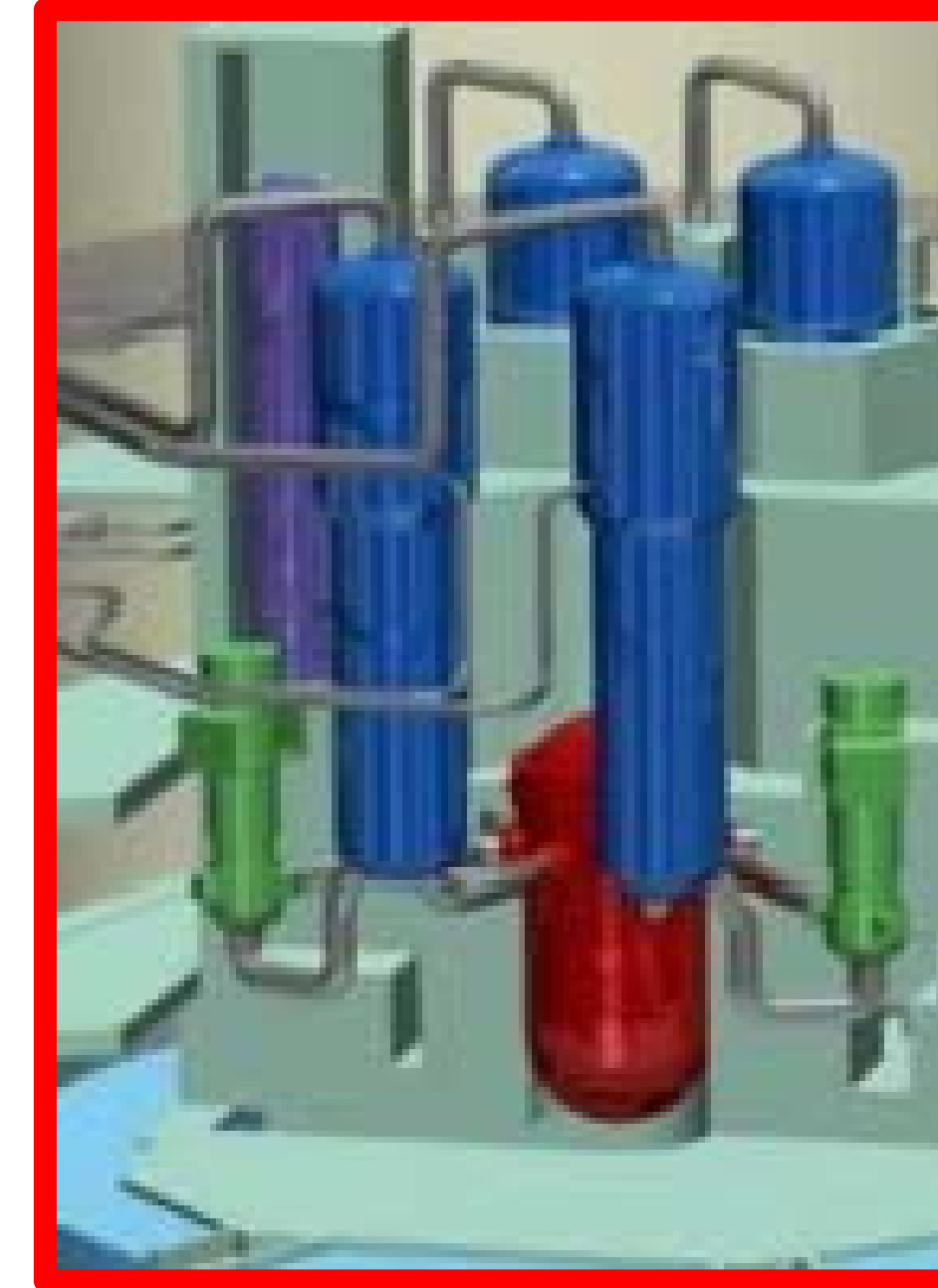




Nuclear Safety Assessment with Systemcodes

The **SAFETY ANALYSIS OBJECTIVE** is the **analytical study** used to demonstrate how safety requirements are met for a broad range of operating conditions and various initiating events for example **Anticipated Operational Occurrences** or **Design Basis Accidents**.

System Codes are software for the simulation of plant behaviour.

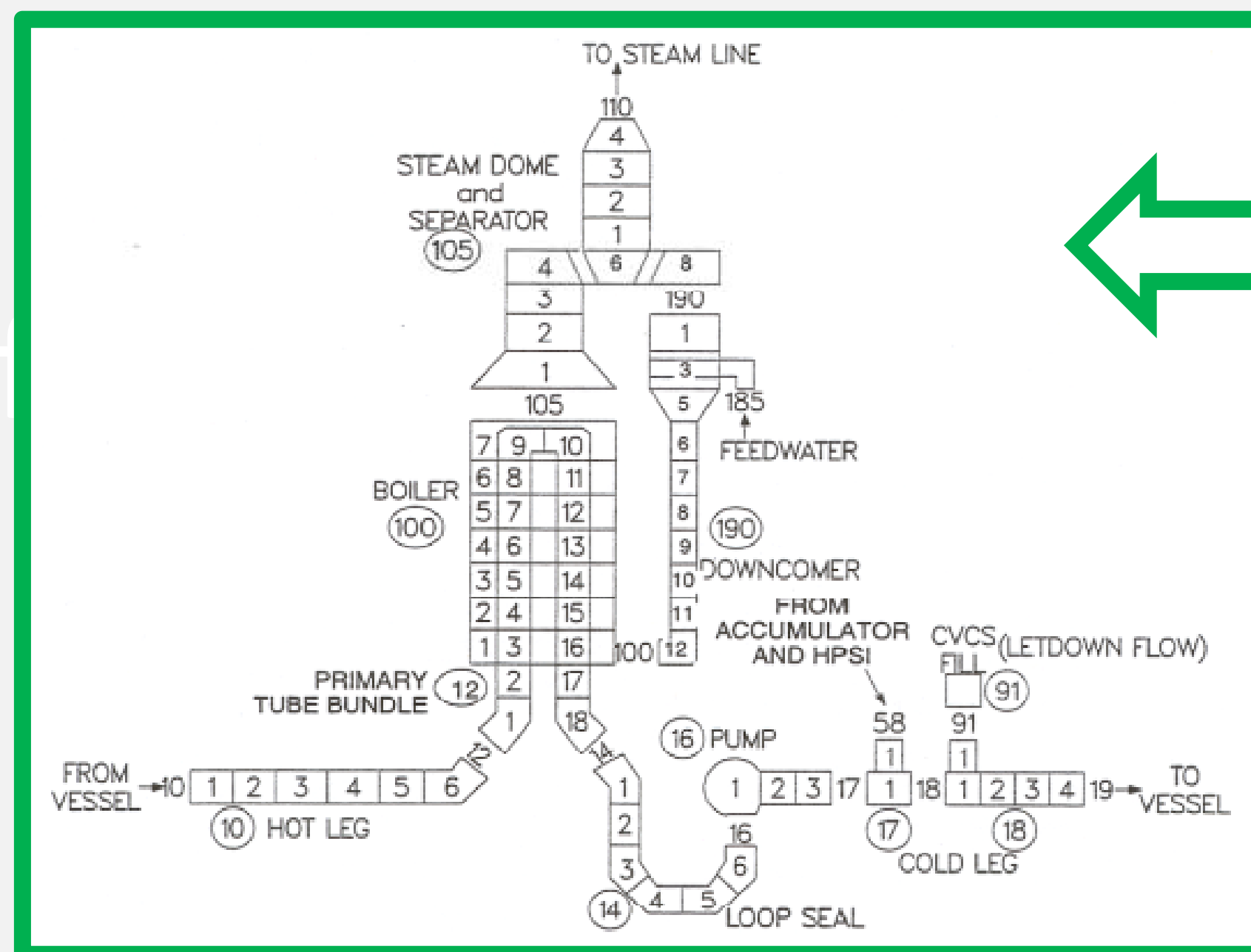


Source: U.S. NRC

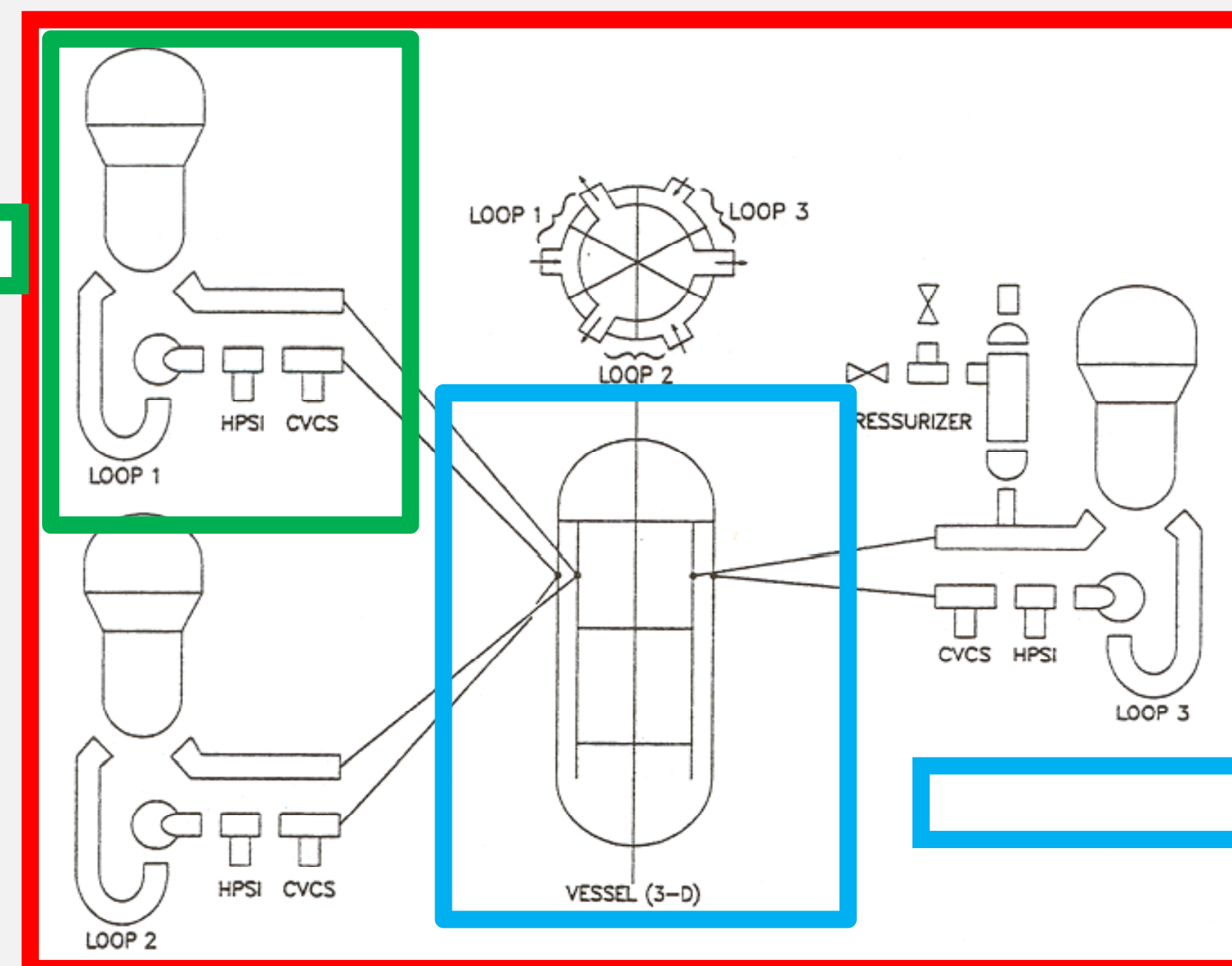
Noding Diagramm:

Plant Schematic and further refinement of the **Core** and **Primary**

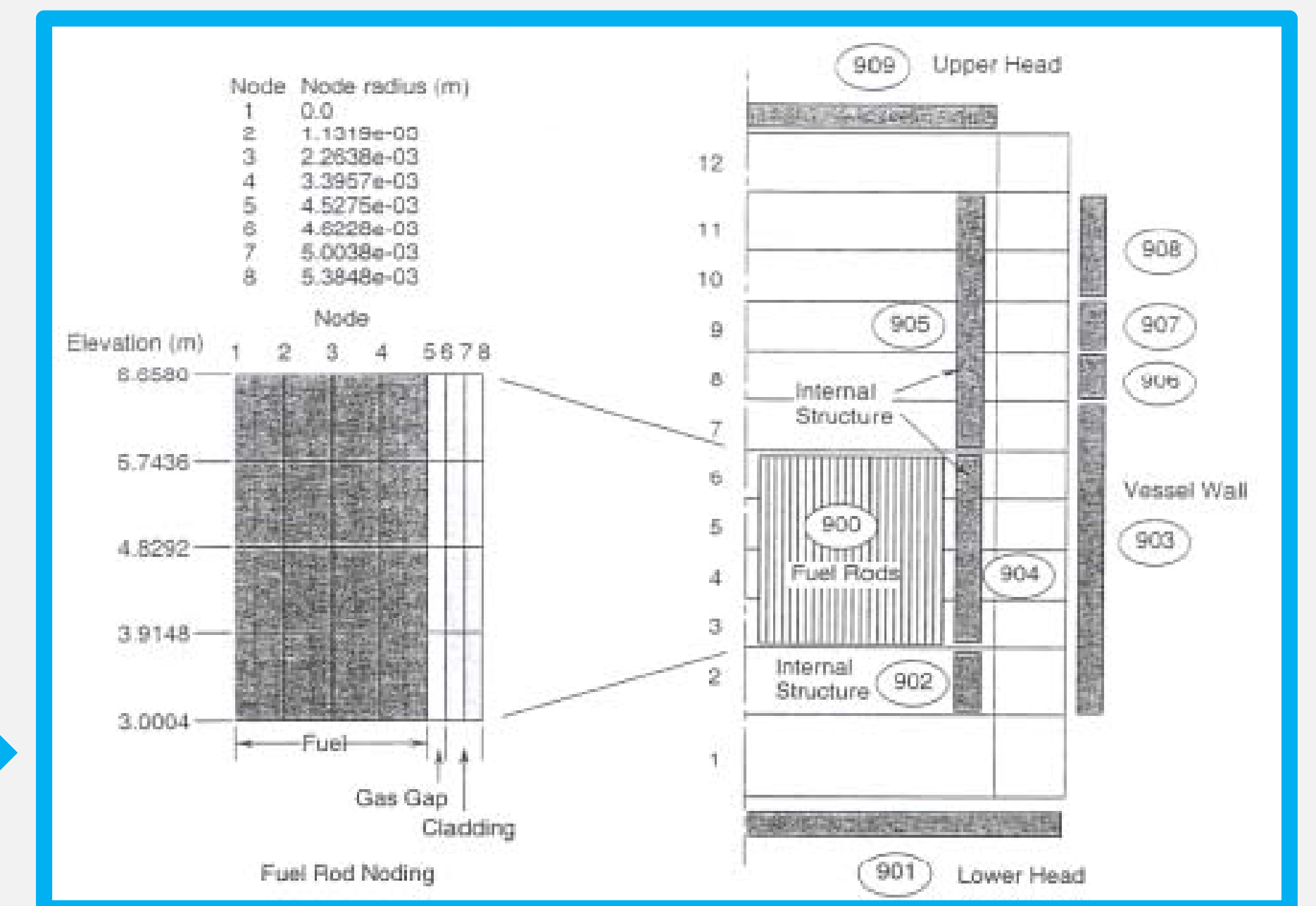
System Loop with Steam Generator.



Source: TRACE V5.0 USER'S MANUAL



Source: TRACE V5.0 USER'S MANUAL



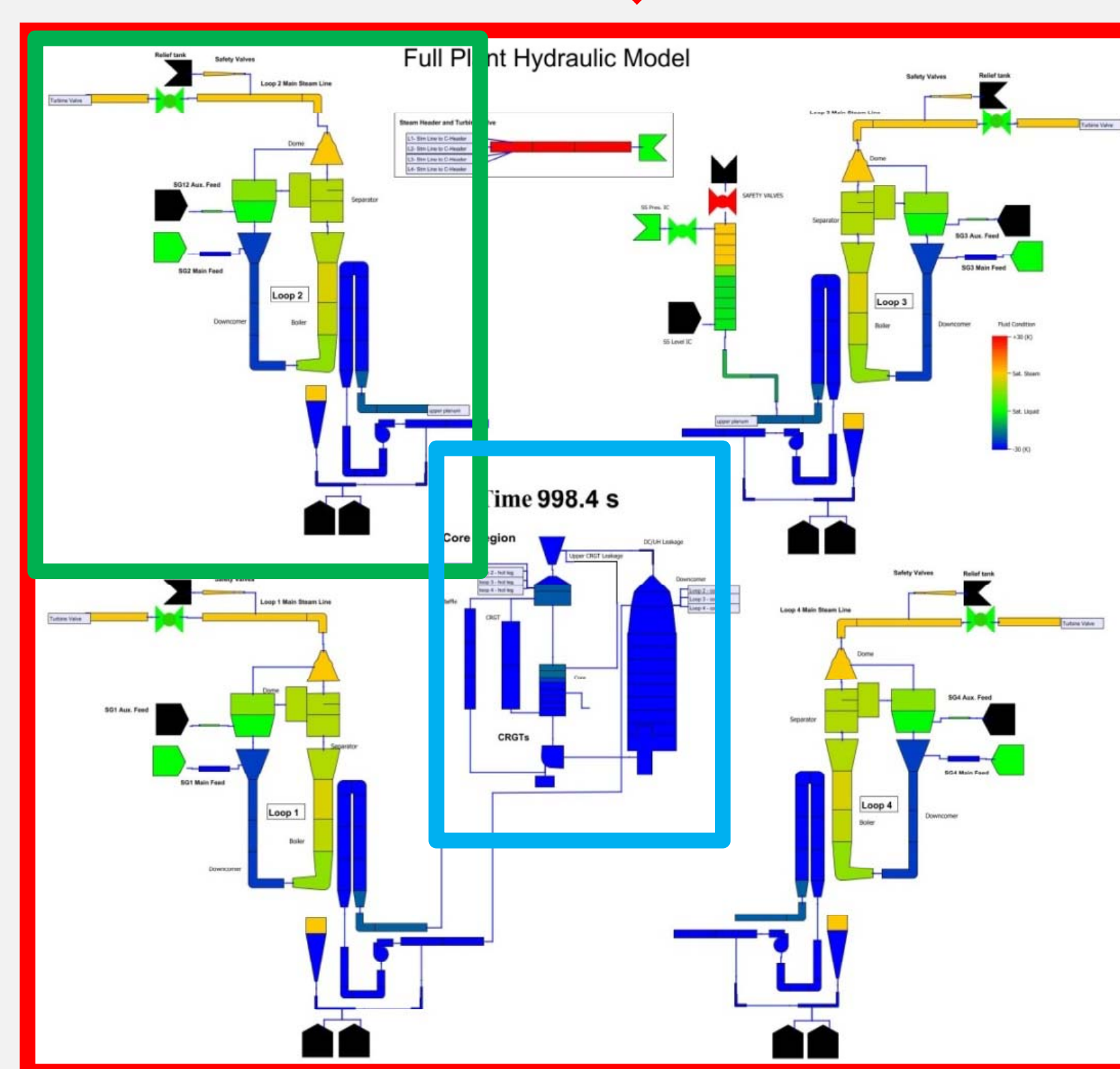
Source: TRACE V5.0 USER'S MANUAL

Input Model

System Code

Simulation

Simulation Output



Input Model :

Core and four **Primary System Loops with Steam Generator.**

Components consisting of thermohydraulic fluidobjects.

Analysis of simulation output

