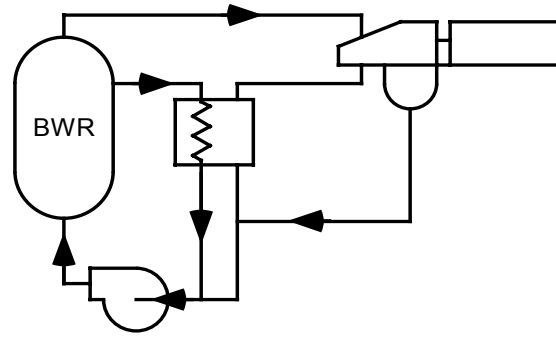


Boiling Water Reactor (BWR) Introduction

Chapters 1.0 – 1.6

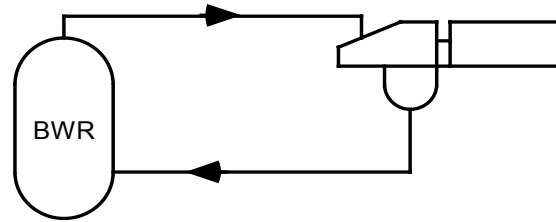
Chapters 2.0, 3.0, 4.0, 5.0, 7.0
and 10.0

DRESDEN 1 (BWR/1)



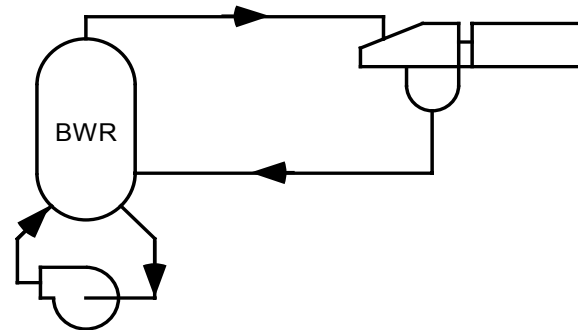
FORCED CIRCULATION, DUAL CYCLE

HUMBOLDT BAY (BWR/1)



NATURAL CIRCULATION, DIRECT CYCLE

BIG ROCK POINT (BWR/1)
OYSTER CREEK (BWR/2)
DRESDEN 2&3 (BWR/3)
BROWNS FERRY (BWR/4)
LASALLE 1&2 (BWR/5)
GRAND GULF 1&2 (BWR/6)



FORCE CIRCULATION, DIRECT CYCLE

Figure 1.4-1

GE/BWR PRODUCT LINES

Product Line Number	Year of Introduction	Characteristic Plants and Their Features
BWR/1	1955	Dresden 1, Big Rock Point, Humboldt Bay, KRB <ul style="list-style-type: none"> - Initial commercial BWRs - First internal steam separation
BWR/2	1963	Oyster Creek <ul style="list-style-type: none"> - The first turnkey plant - Elimination of dual cycle
BWR/3	1965	Dresden 2 <ul style="list-style-type: none"> - The first jet pump application - Improved emergency core cooling systems (ECCS)
BWR/4	1966	Browns Ferry <ul style="list-style-type: none"> - Increased power density 10%
BWR/5	1969	LaSalle <ul style="list-style-type: none"> - Improved Recirculation System performance - Improved ECCS performance - Mark II Containment
BWR/6	1972	Grand Gulf <ul style="list-style-type: none"> - Improved core performance - Improved rod control systems - Mark III Containment

Typical Site Layout

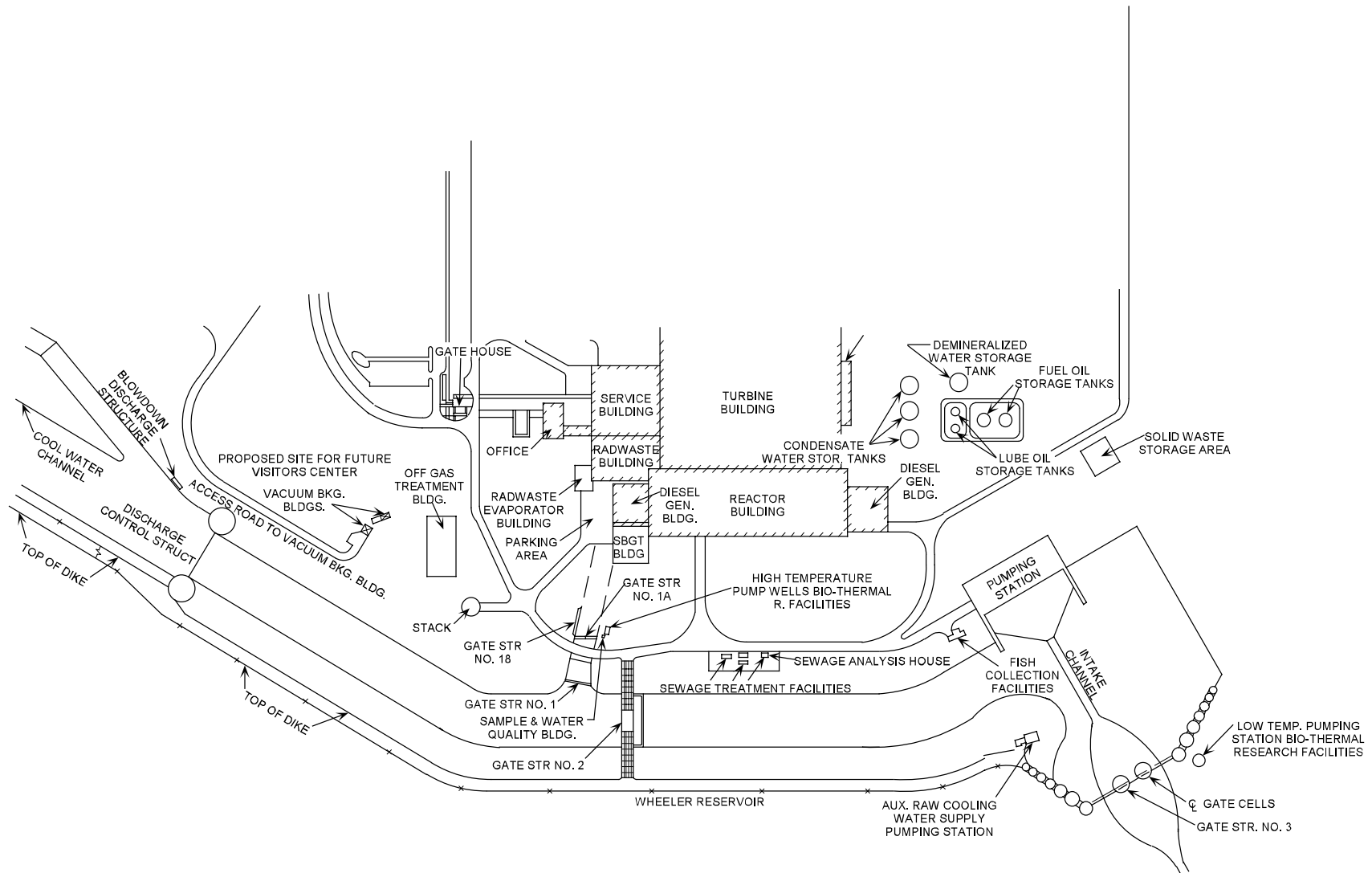
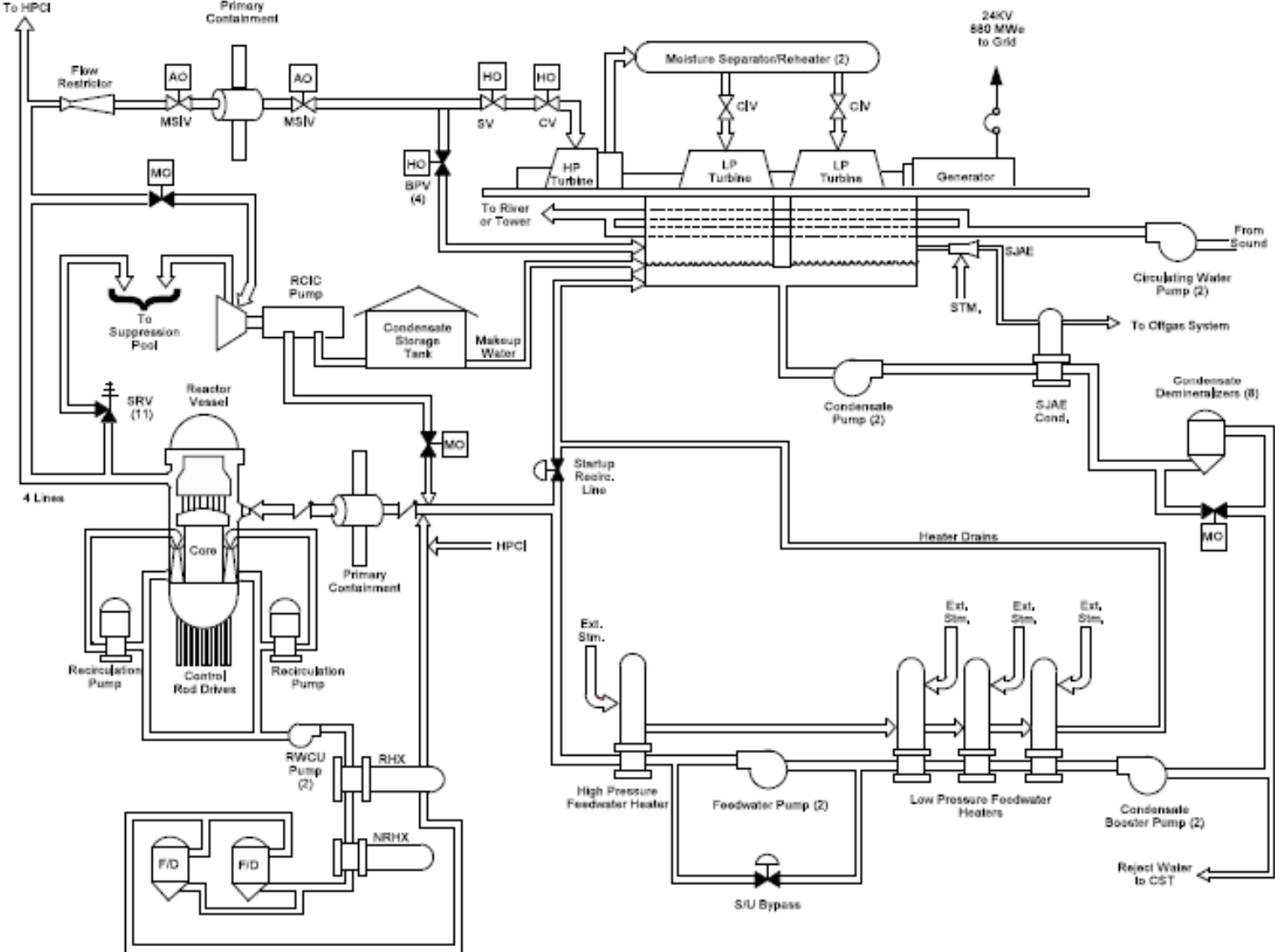
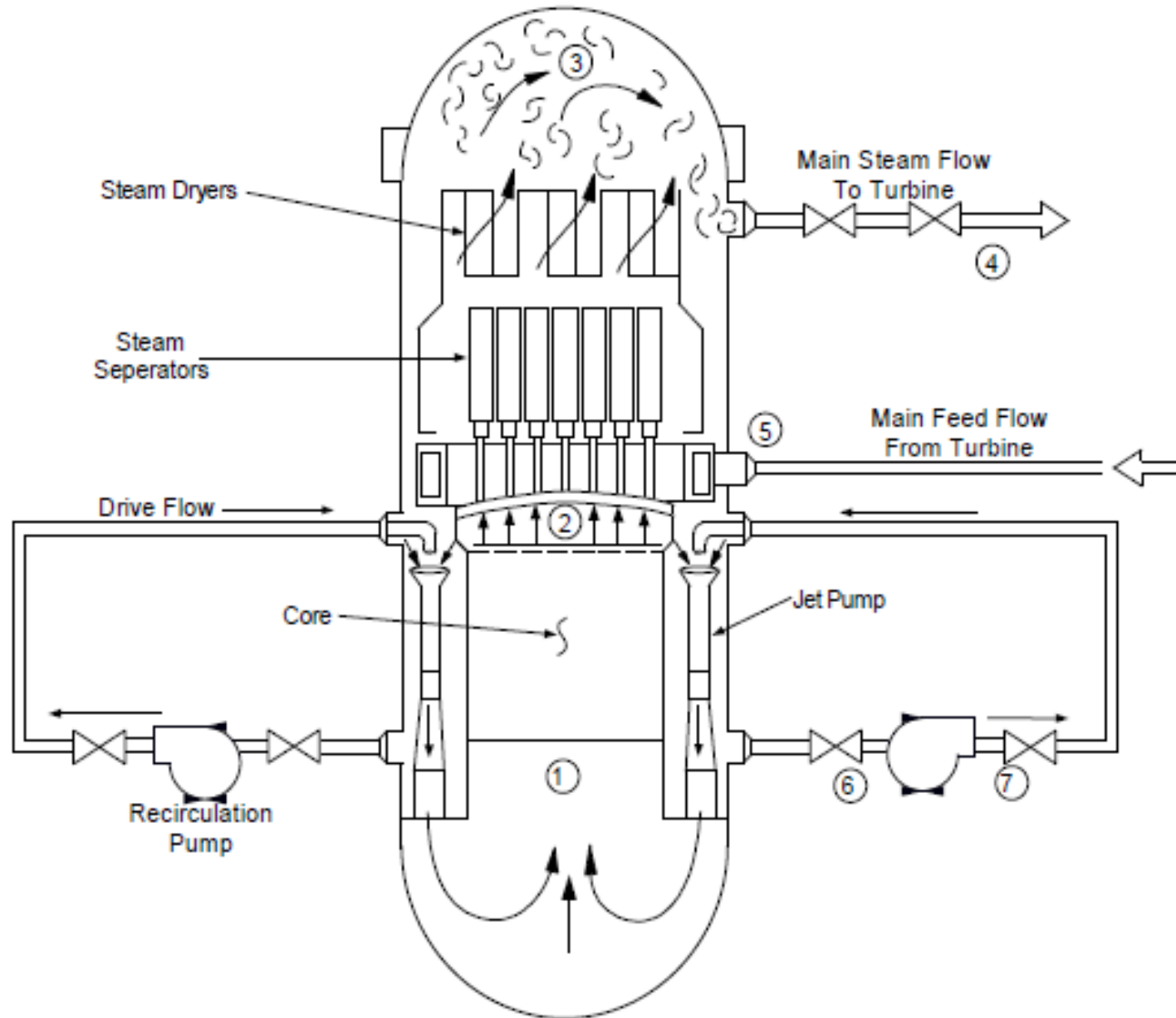


Figure 1.6-1

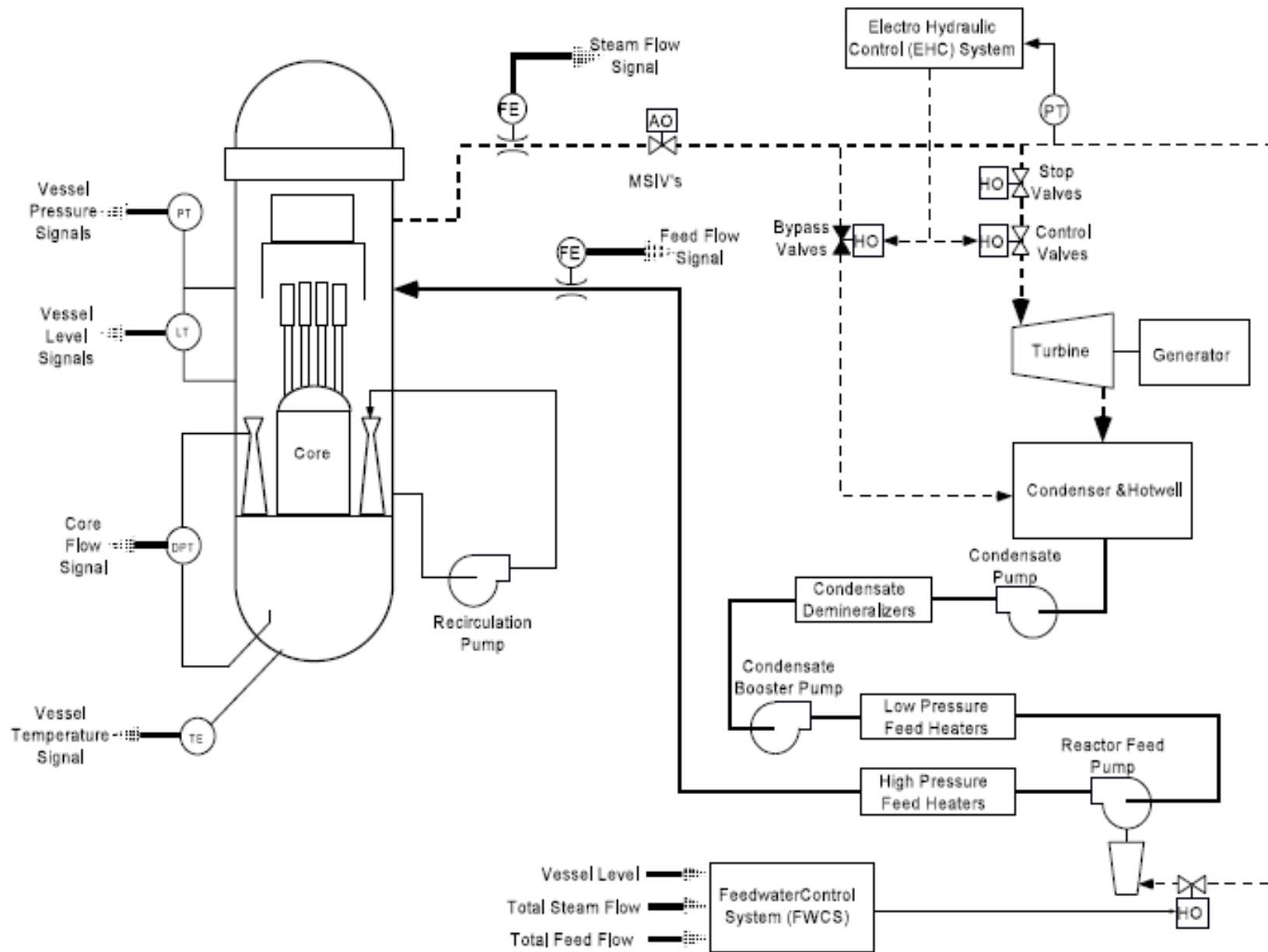
BWR Primary and Auxiliary Systems



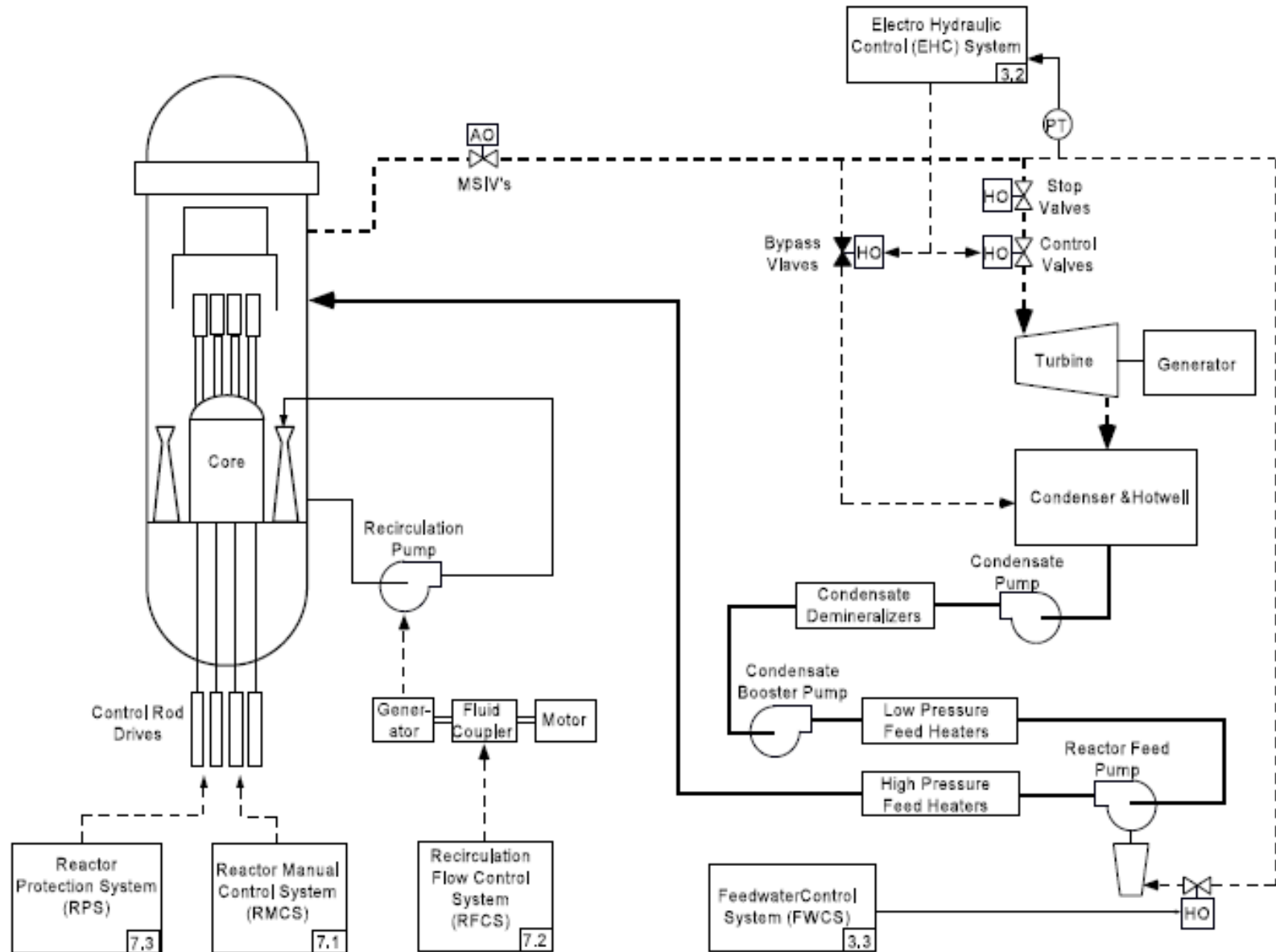
Flow through vessel



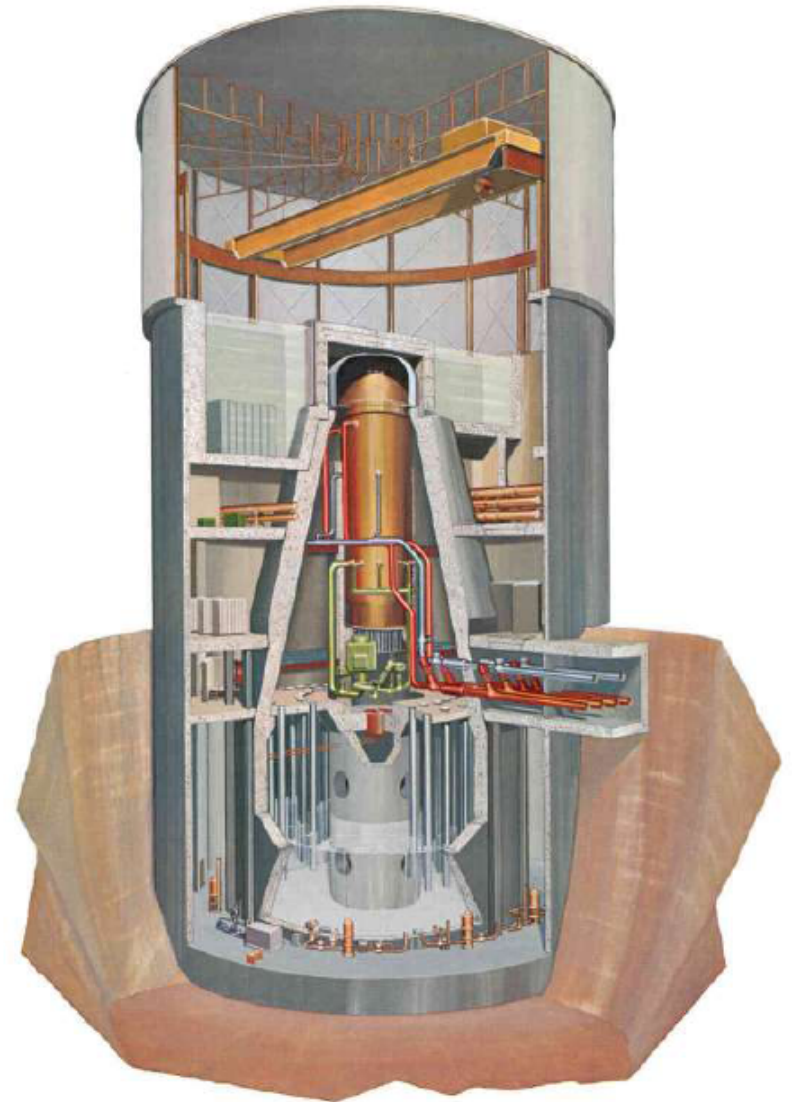
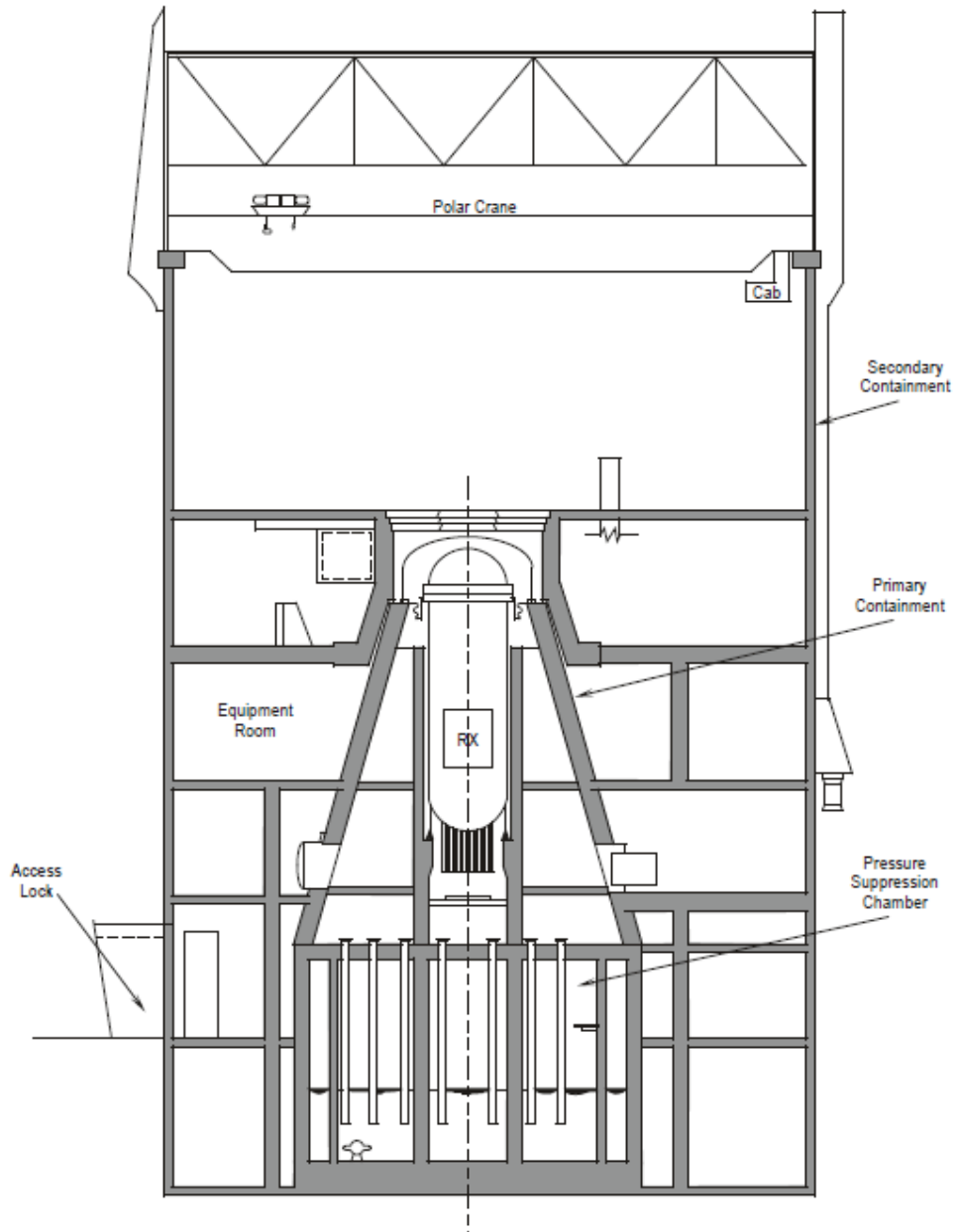
Instrumentation and Control Systems



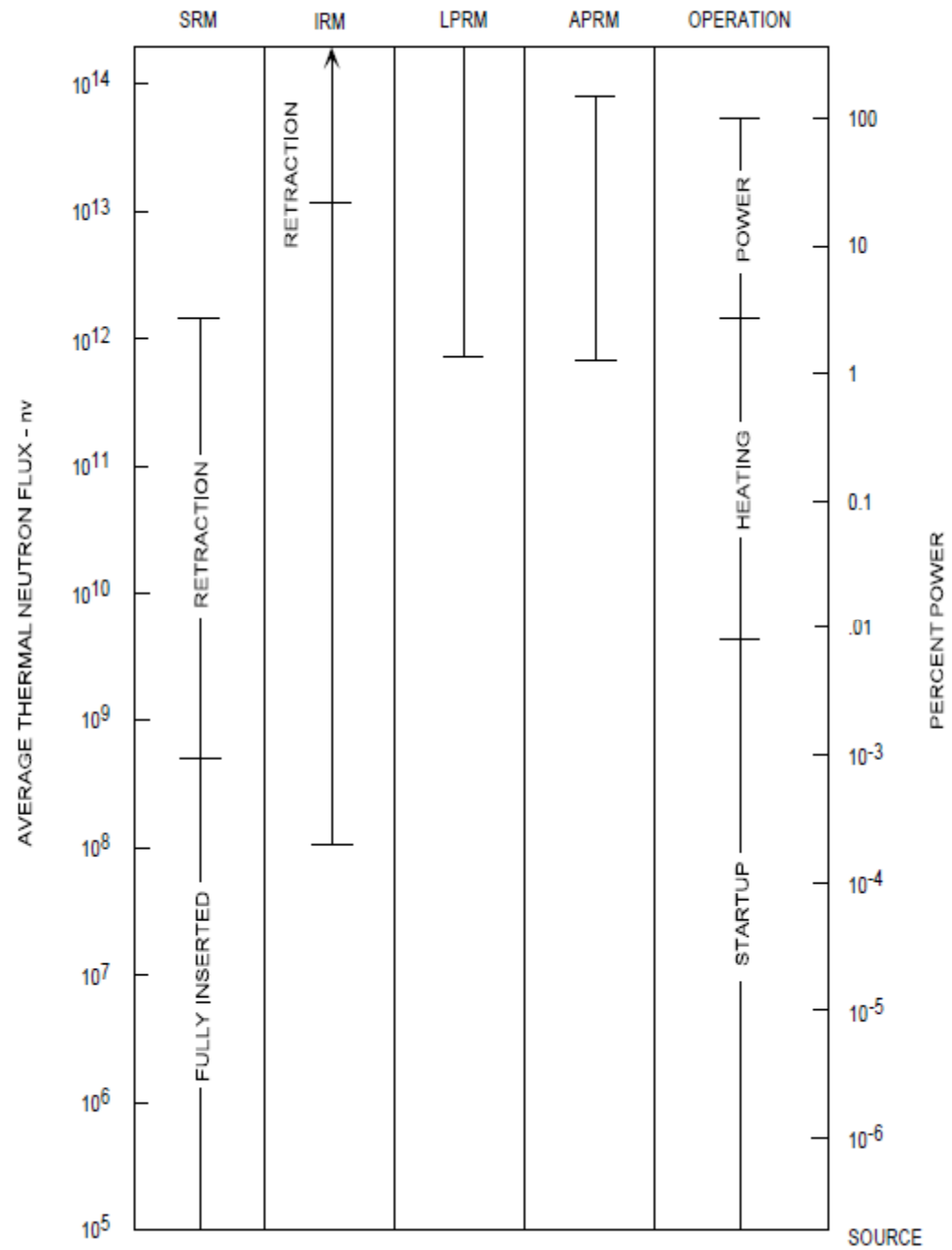
Instrumentation and Control Systems



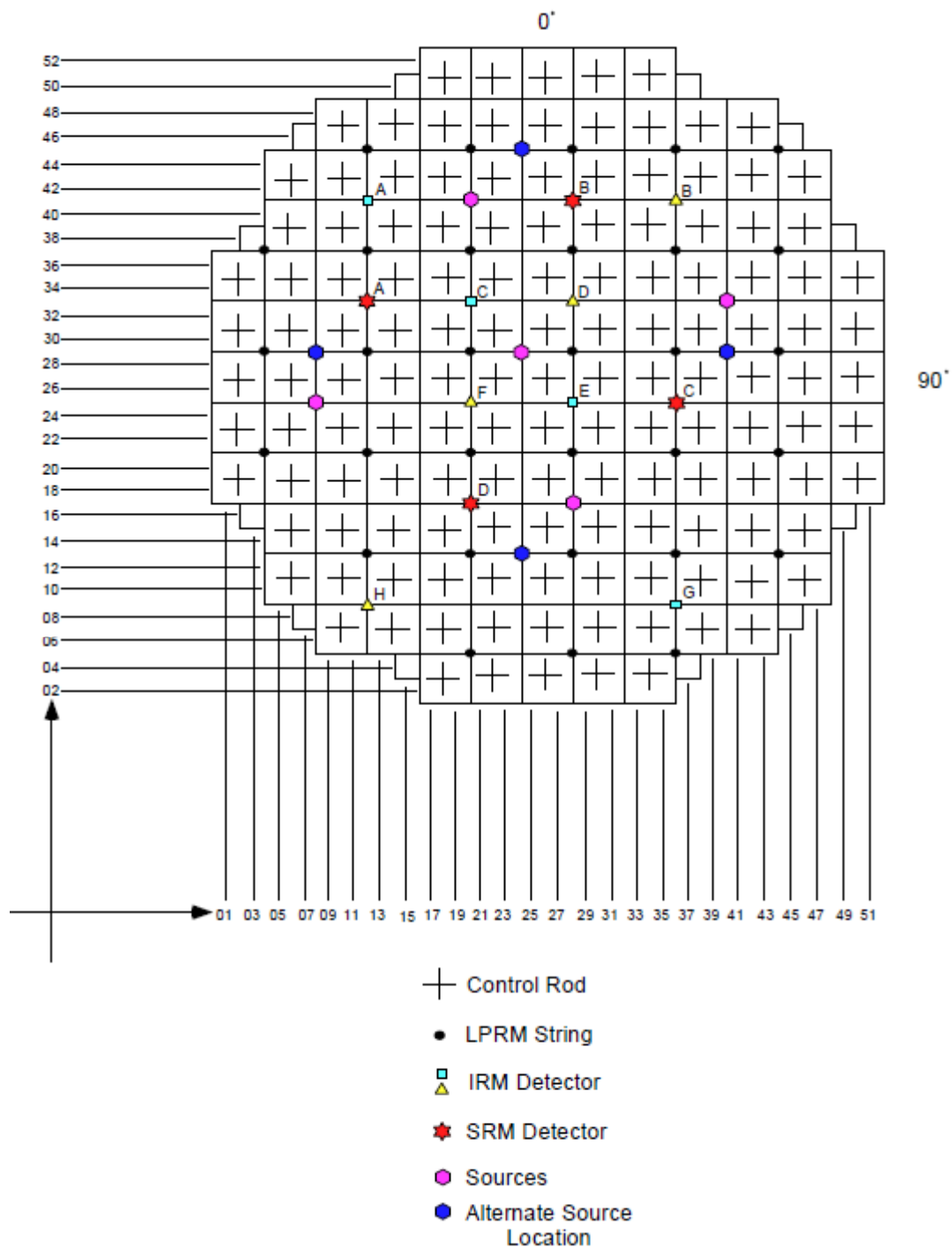
Mark II Containment



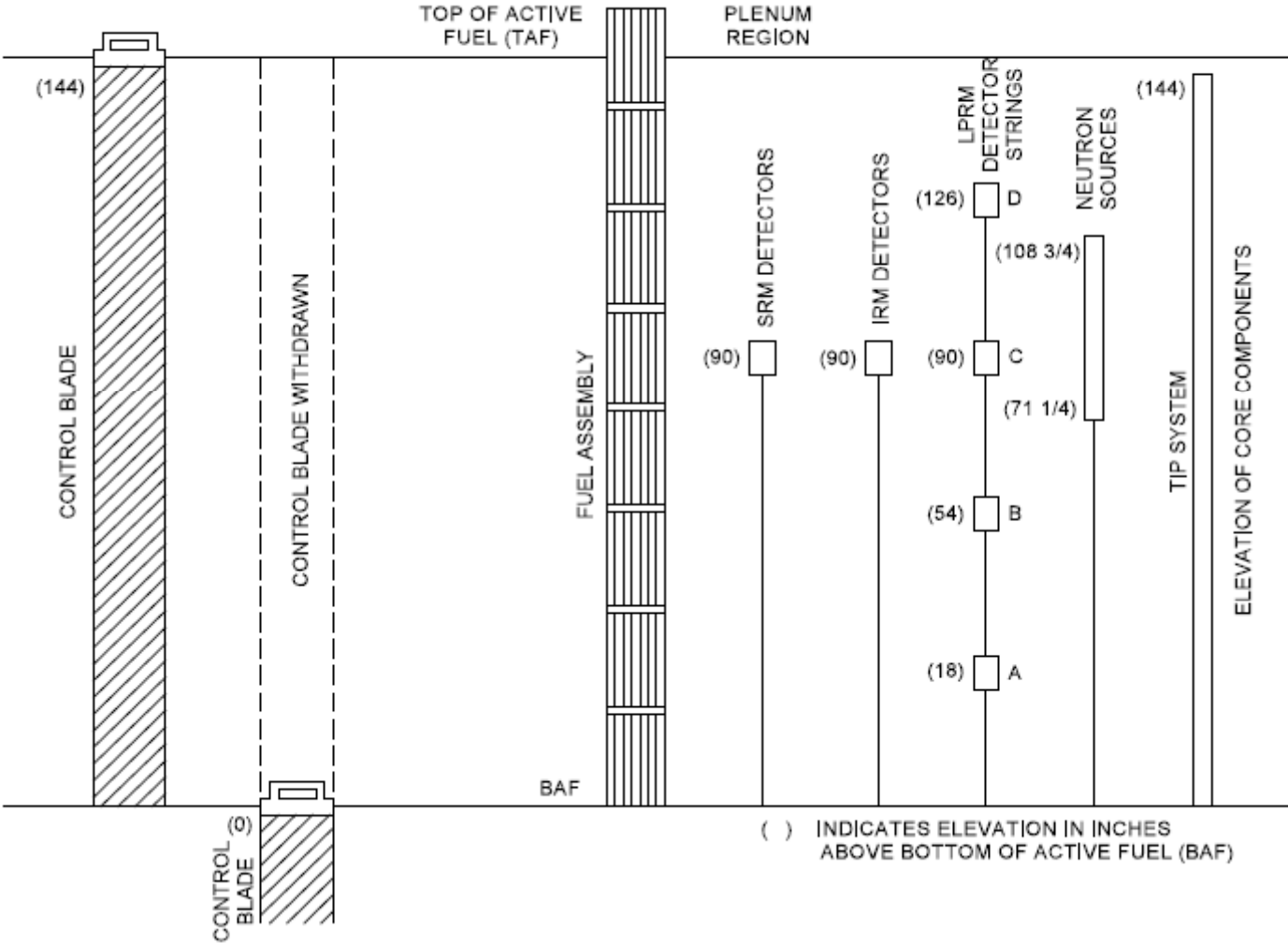
Nuclear Monitoring Systems



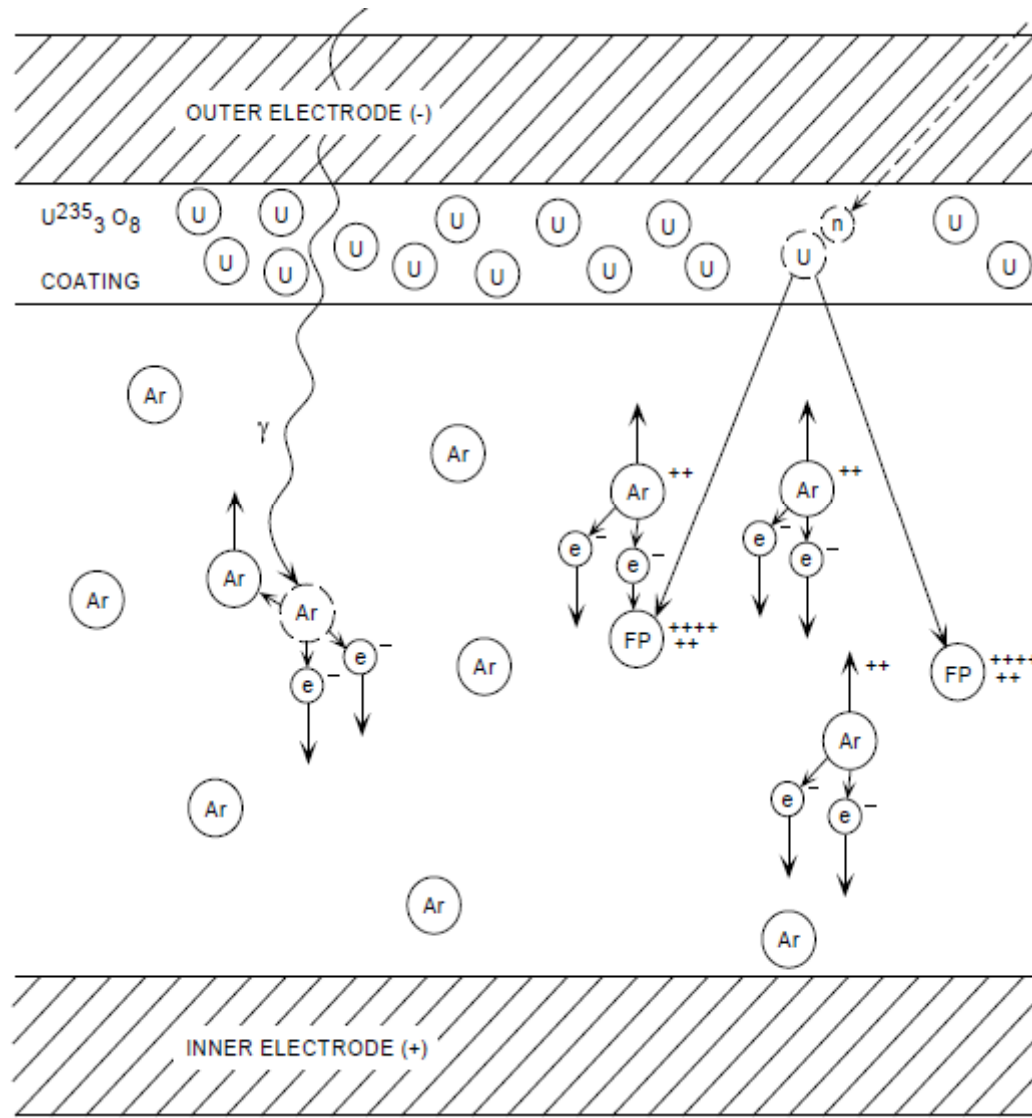
Nuclear Monitoring Systems



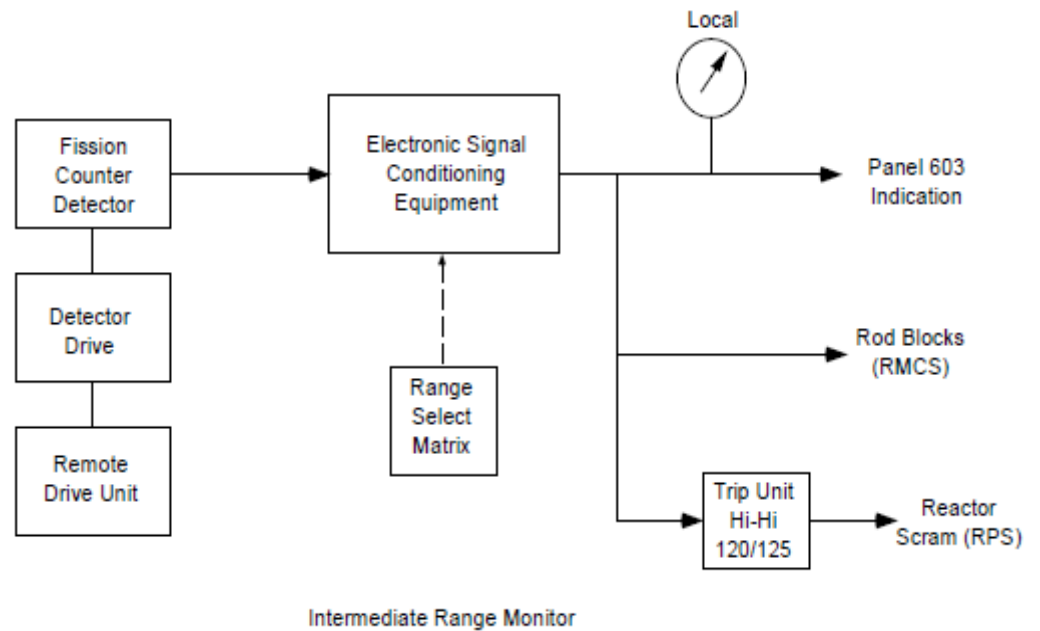
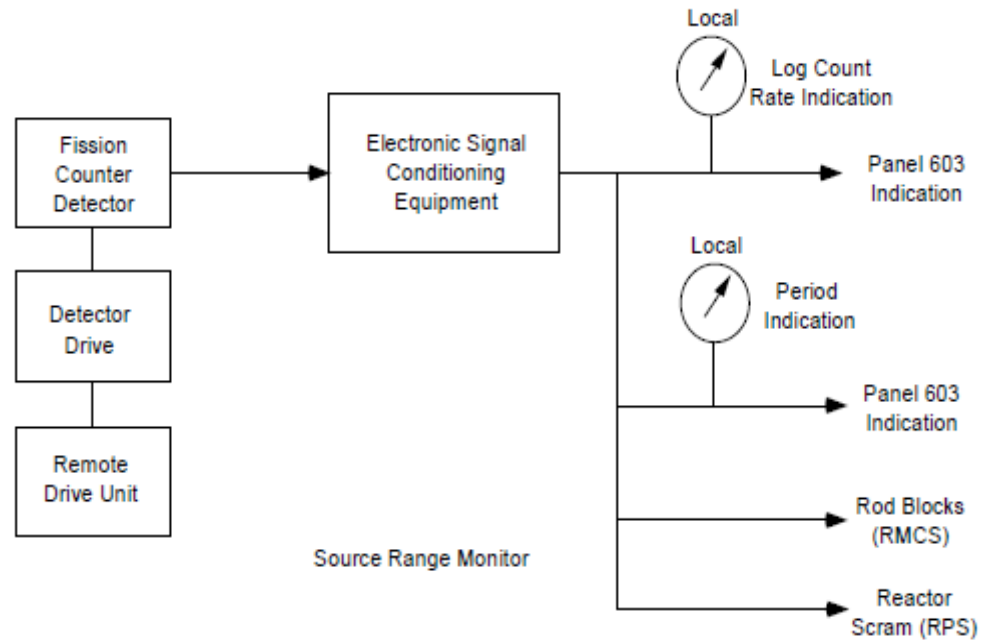
Nuclear Monitoring Systems



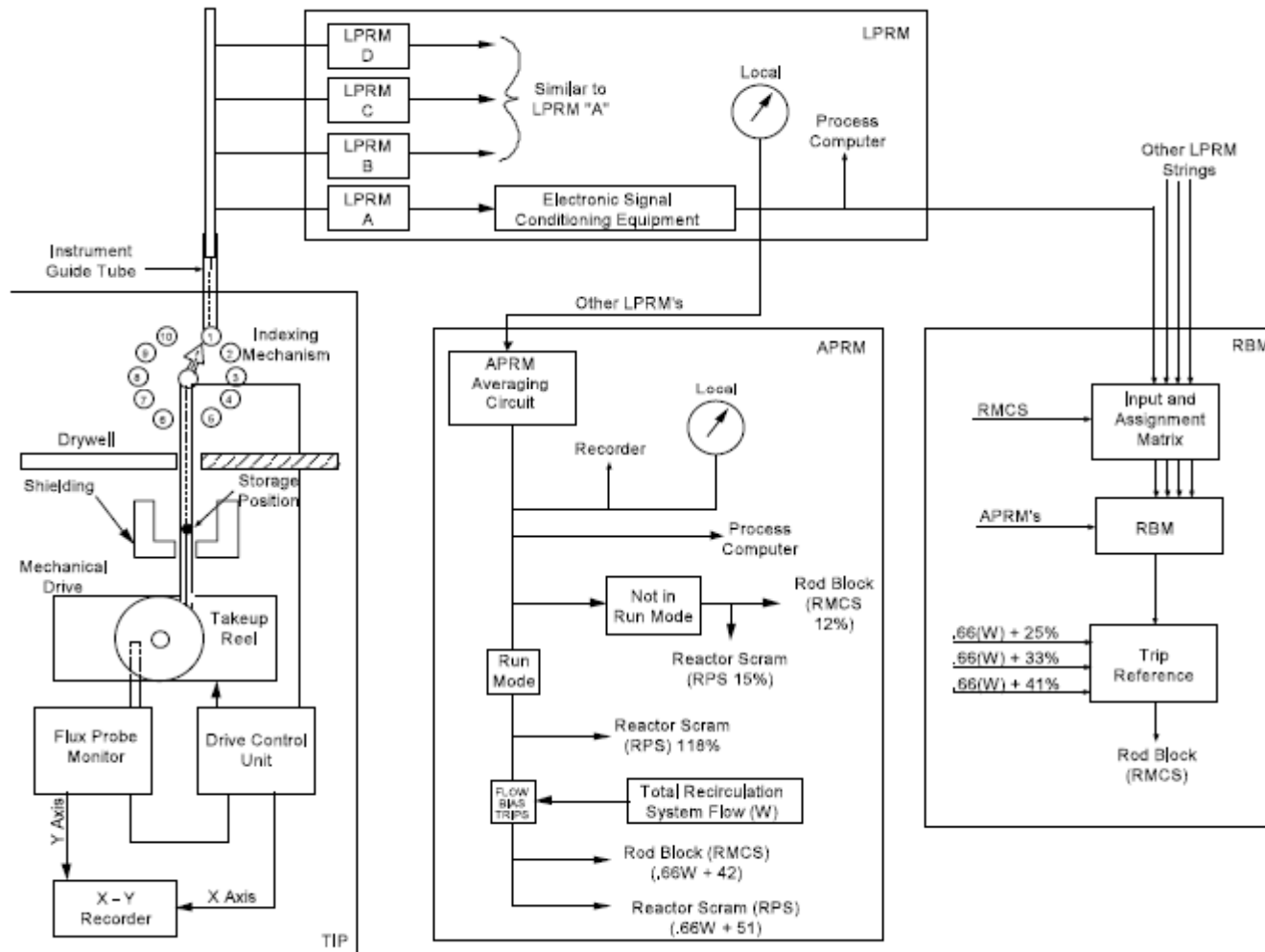
Nuclear Monitoring Systems



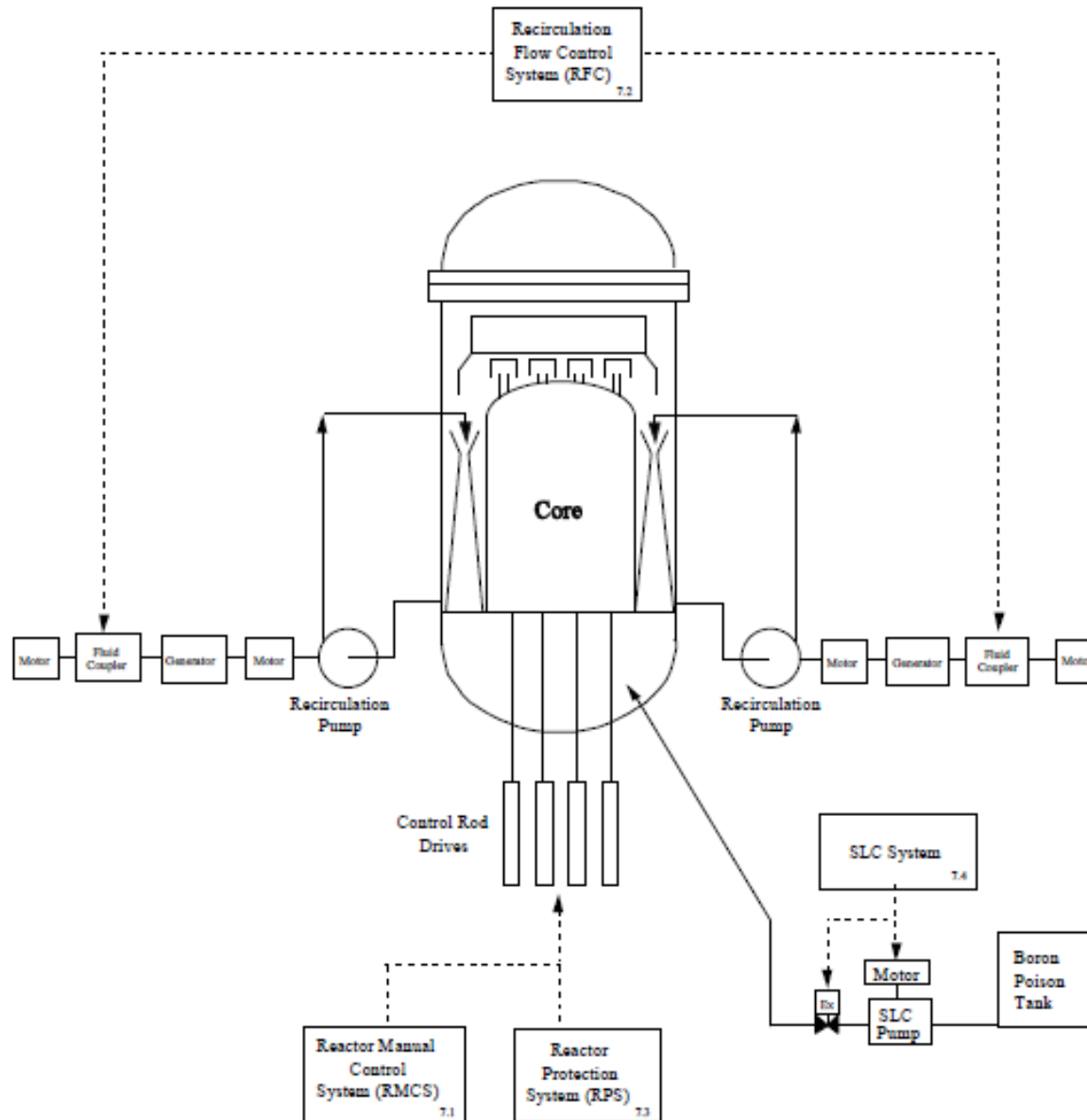
Nuclear Monitoring Systems



Nuclear Monitoring Systems



Reactivity Control Systems



Emergency Core Cooling Systems

