



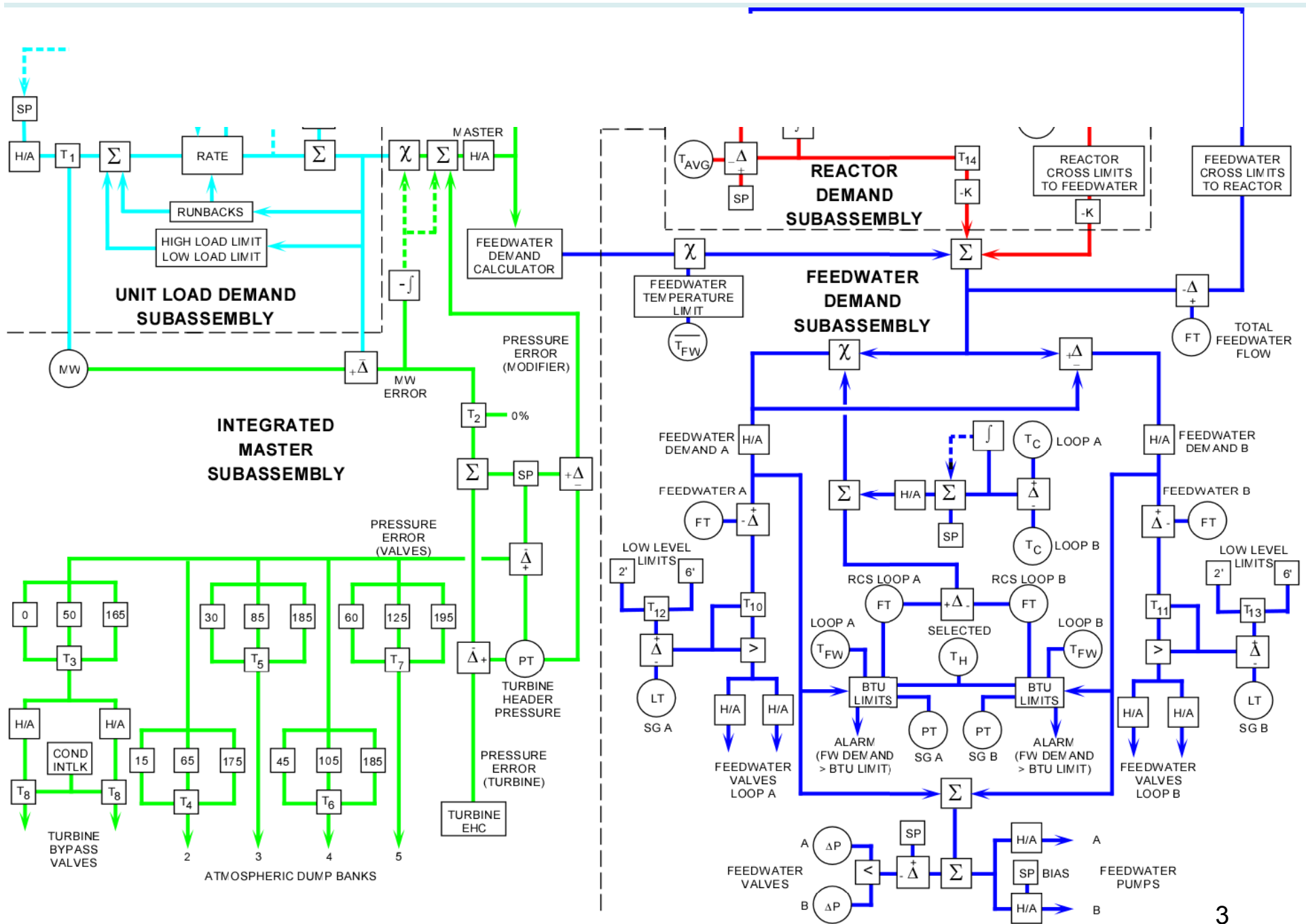
Transients and Instrument Failures

Chapter 19.0
B&W Cross-Training Course
R-326C

OBJECTIVES

With the use of the ICS block diagram, describe how the ICS & the plant respond to the following transients & instrument failures:

1. Loss of one RCP.
2. Load Rejection.
3. Reactor Trip.
4. Power Range Excore NI Failure.
5. RCS Loop Temperature Instrument Failures.
6. RCS Loop Flow Instrument Failure.
7. Feedwater Loop Flow Instrument Failures.
8. Loss of 1 Main Feedwater Pump
9. Dropped Control Rod Assembly



Integrated Control System (Fig. 9-2)

Table 9-1 Runback Conditions

Condition	Runback Rate	Maximum Load Value
Loss of an RCP	50%/minute	75% generated Mw
Loss of 2 RCPs	50%/minute	50% generated Mw
Loss of a MFP	50%/minute	60% generated Mw
Asymmetric Rod	30%/minute	60% generated Mw
RCS Flow (Total Core Flow)	20%/minute	Value required to maintain correct power/flow ratio