List of Tables

1.1	Catastrophic accidents in the last decade
3.1	Various standards used in reliability prediction methods based on
	application and applied industry
3.2	Comparison of Reliability analysis approaches
3.3	Concluding summary of reliability prediction methods
3.4	Comparison of safety analysis approaches
3.5	Safety integrity Level (IEC 61508)
3.6	Comparison of Different Existing Software Safety Documents and
	Standards
3.7	Concluding Summary of Safety Analysis methods
5.1	Possible failures mapped to digital feedwater controller system 177
5.2	Hazards related to digital feedwater controller system
5.3	Highest SIL (IEC 61508) related to each Hazard 179
5.4	Reliability Computation Using Brown and Lipow Model 187
6.1	Behavior of the main components of RCICS under specific conditions 199
6.2	Possible operational failures and their triggering events 200
6.3	Possible failures and SIL related to each hazard mapped to RCIC
	controller system