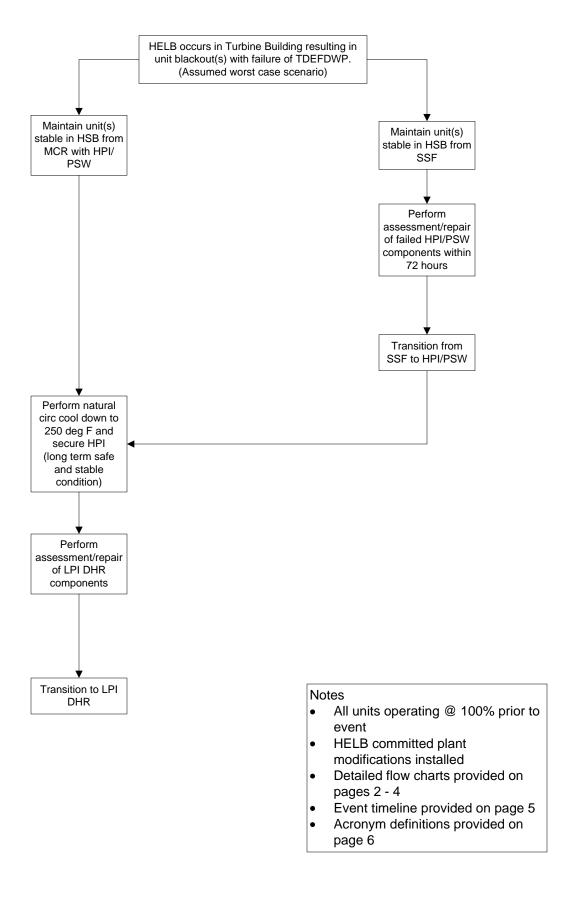
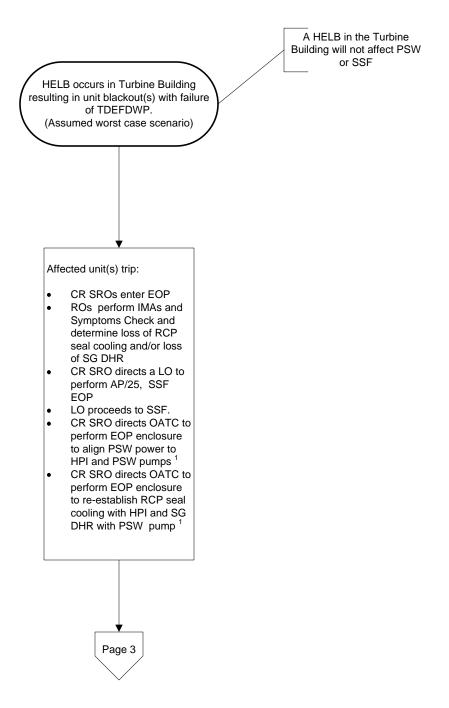
Turbine Building HELB Event Overview



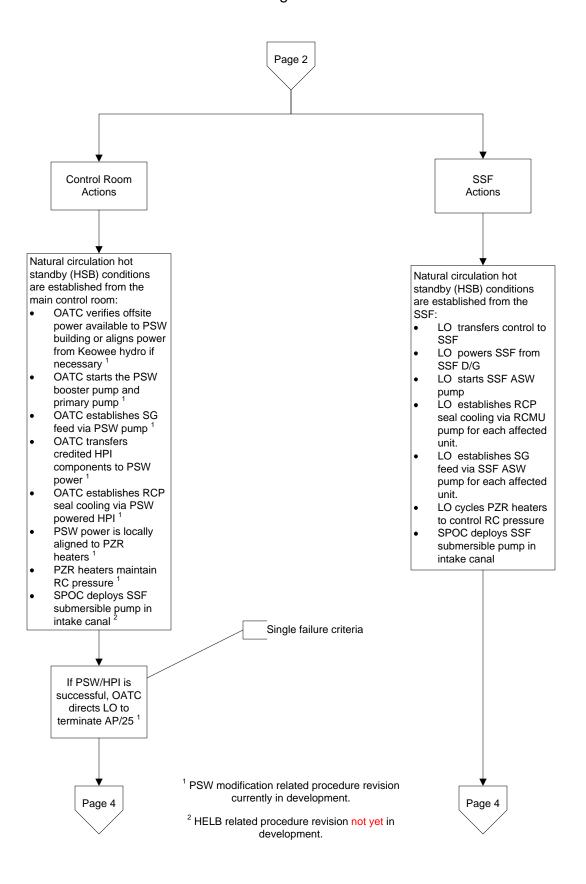
Turbine Building HELB Event Details



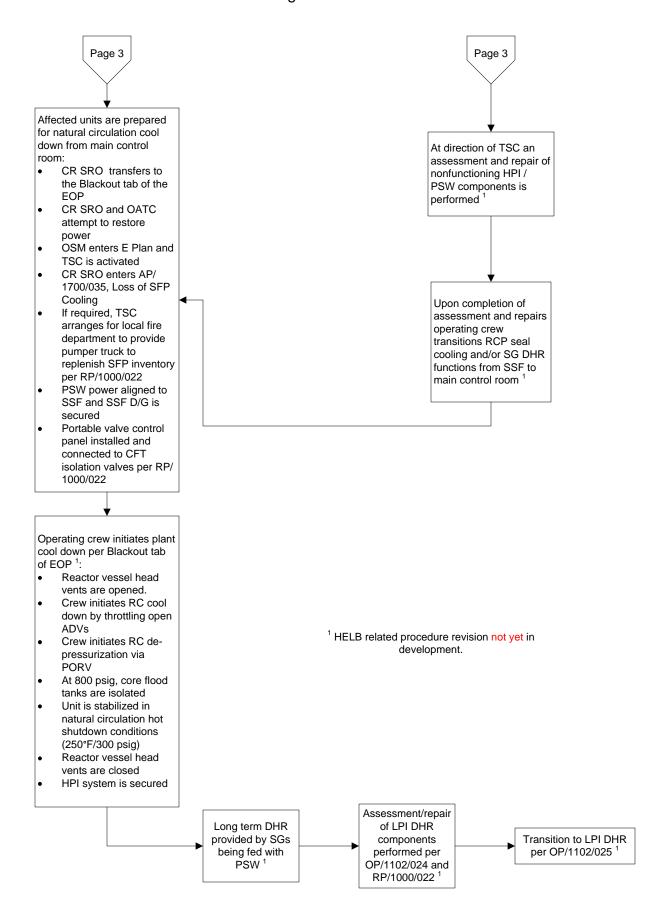
¹ PSW modification related procedure revision currently in development.

Duke Energy / NRC Pre-submittal Meeting

Turbine Building HELB Event Details



Duke Energy / NRC Pre-submittal Meeting Turbine Building HELB Event Details



Event Timeline

- T=0, Event Initiation (Loss of Function)
- T=14 min, SSF ASW flow established to SGs*
- T=20 min, SSF RCMU flow established*
- T=75 min, TSC activated
- T=1.75 hrs, Diversion of SSF D/G service water flow to yard initiated*
- T=2.00 hrs, Diversion of SSF D/G service water flow to yard completed*
- T=3hr 20 min, SSF submersible pump deployed*
- T=36 hours, Maximum time to initiate replenishment of SFP
- T=72 hrs, Assessment/repairs needed to transition back to HPI/PSW completed
- T=72 hrs, Transition from hot standby to hot shutdown initiated

^{*} Previously established SSF activation times

Acronyms

- ADV Atmospheric Dump Valve
- AP Abnormal Procedure
- ASW Auxiliary Service Water System
- CFT Core Flood Tank
- CR SRO Control Room SRO/Procedure Director
- D/G Diesel Generator
- DHR Decay Heat Removal
- E Plan Emergency Plan
- EOP Emergency Operating Procedure
- HELB High Energy Line Break
- HPI High Pressure Injection System
- HSB Hot Standby
- IMAs Immediate Manual Actions
- LO Licensed RO or SRO
- LPI Low Pressure Injection System
- MCR Main Control Room
- OATC Operator At The Controls Reactor Operator
- OSM Operations Shift Manager
- PORV Power Operated Relief Valve
- PSW Protected Service Water System
- PZR Pressurizer
- RC Reactor Coolant
- RCMU Reactor Coolant Make Up System
- RCP Reactor Coolant Pump
- RO Reactor Operator
- RP Response Procedure
- SG Steam Generator
- SPOC Maintenance Single Point of Contact
- SFP Spent Fuel Pool
- SRO Senior Reactor Operator
- SSF Standby Shutdown Facility
- TDEFDWP Turbine Driven Emergency Feedwater Pump
- TSC Technical Support Center