APPENDIX C

EVENT TREE MODELS FOR SURRY AND PEACH BOTTOM

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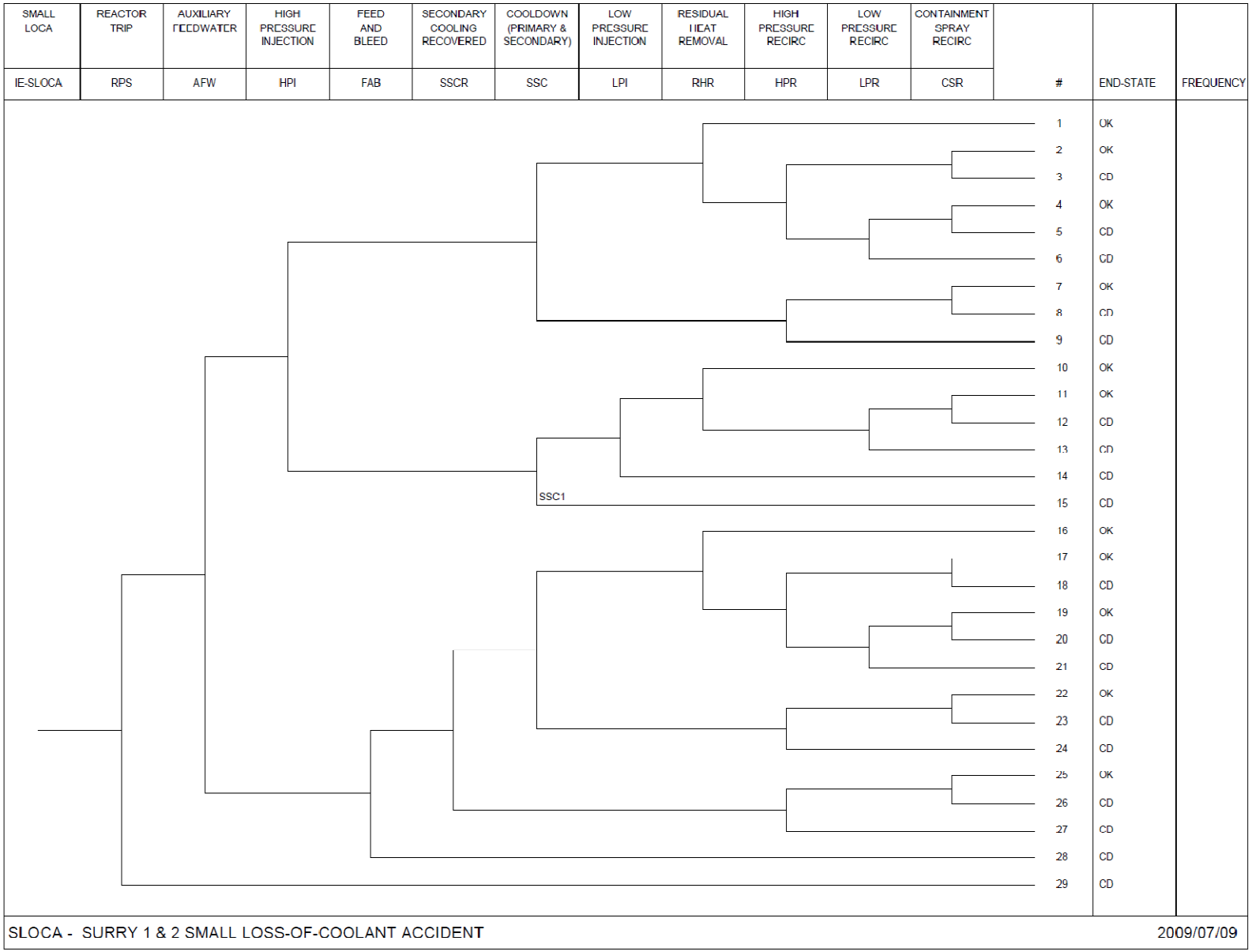
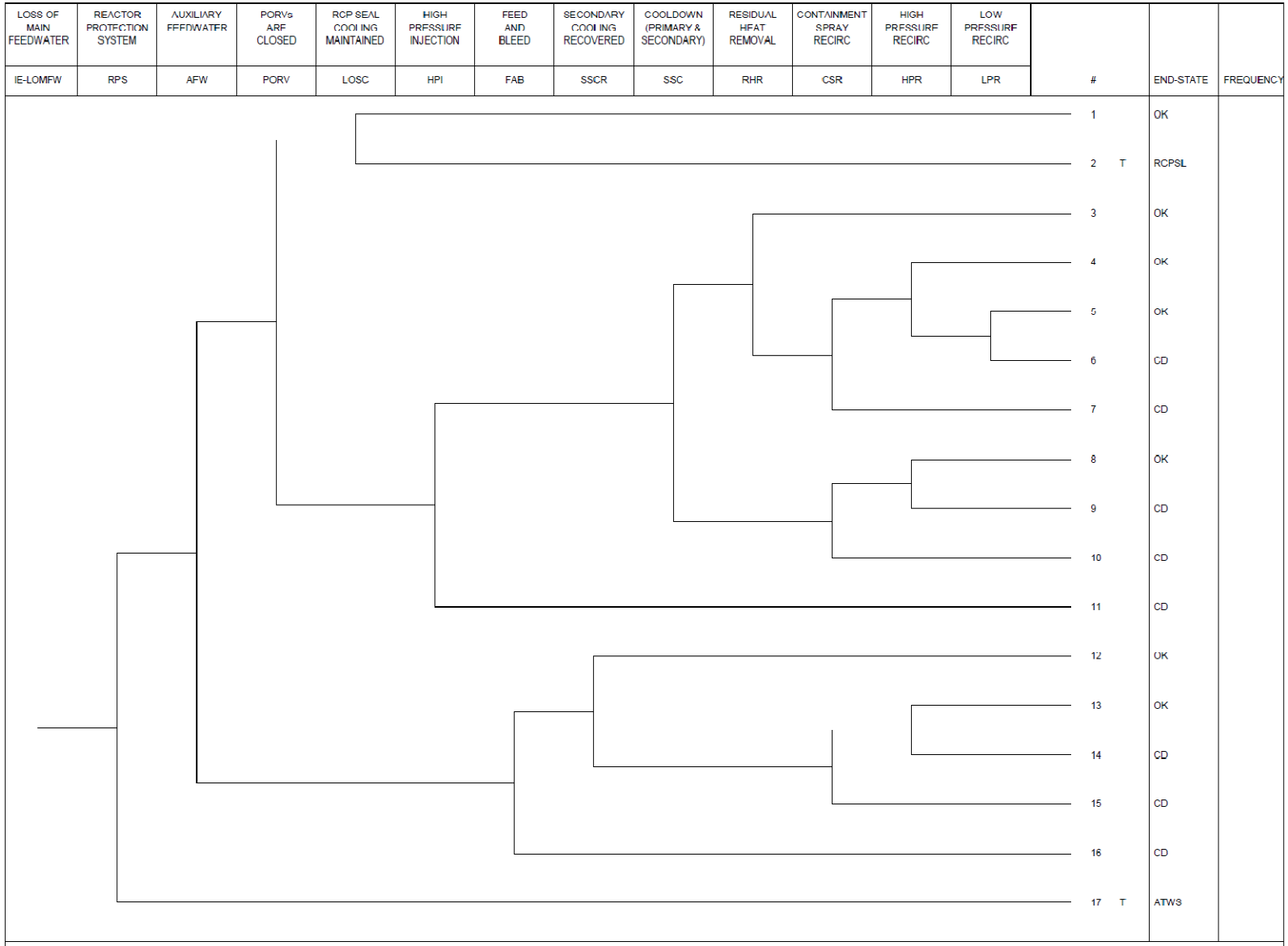
C.1 Surry Event Trees

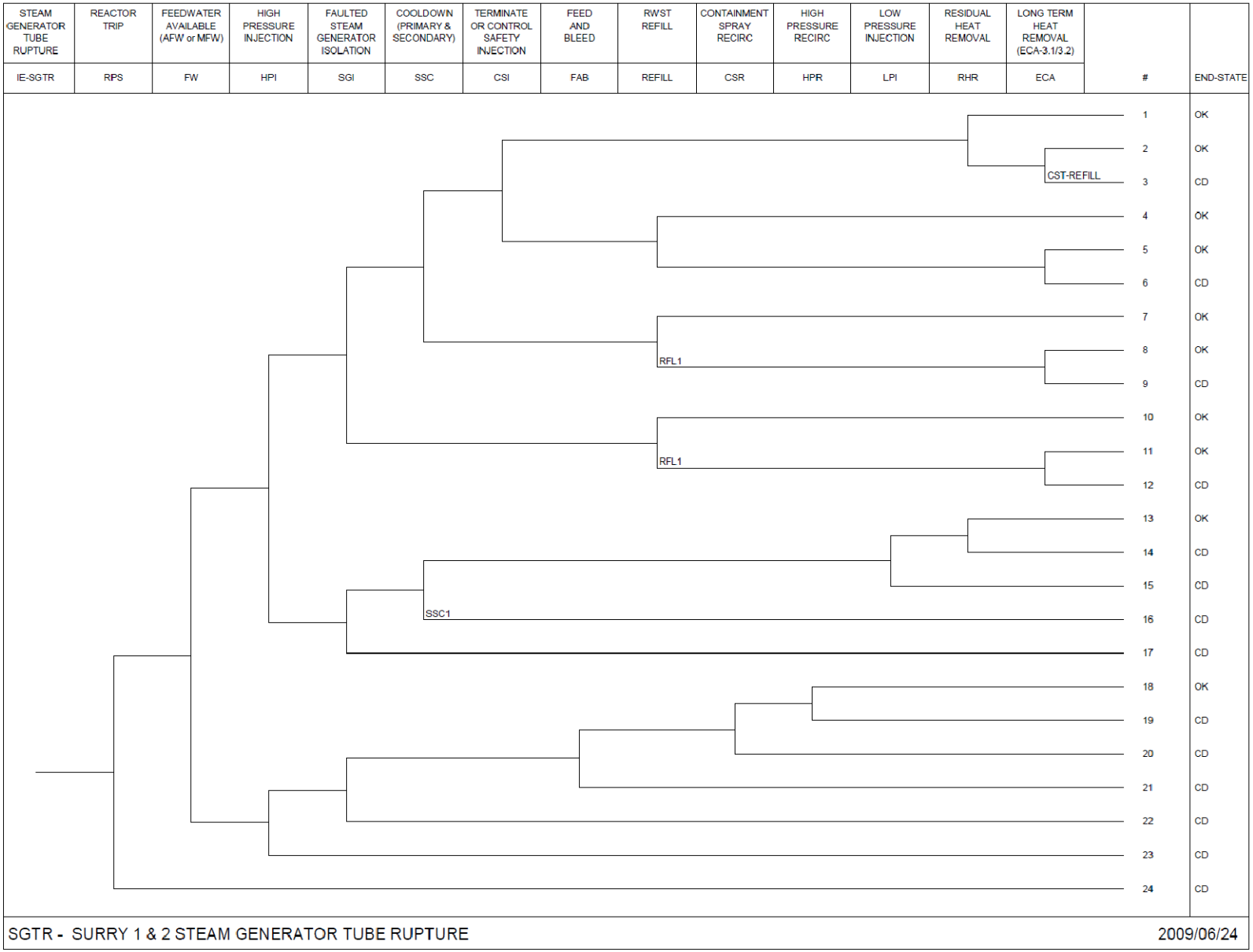
This section provides the relevant event trees from the Surry (v3.52) Standardized Plant Analysis Risk model, dated November 2009. These event trees show the sequences described in the main report.



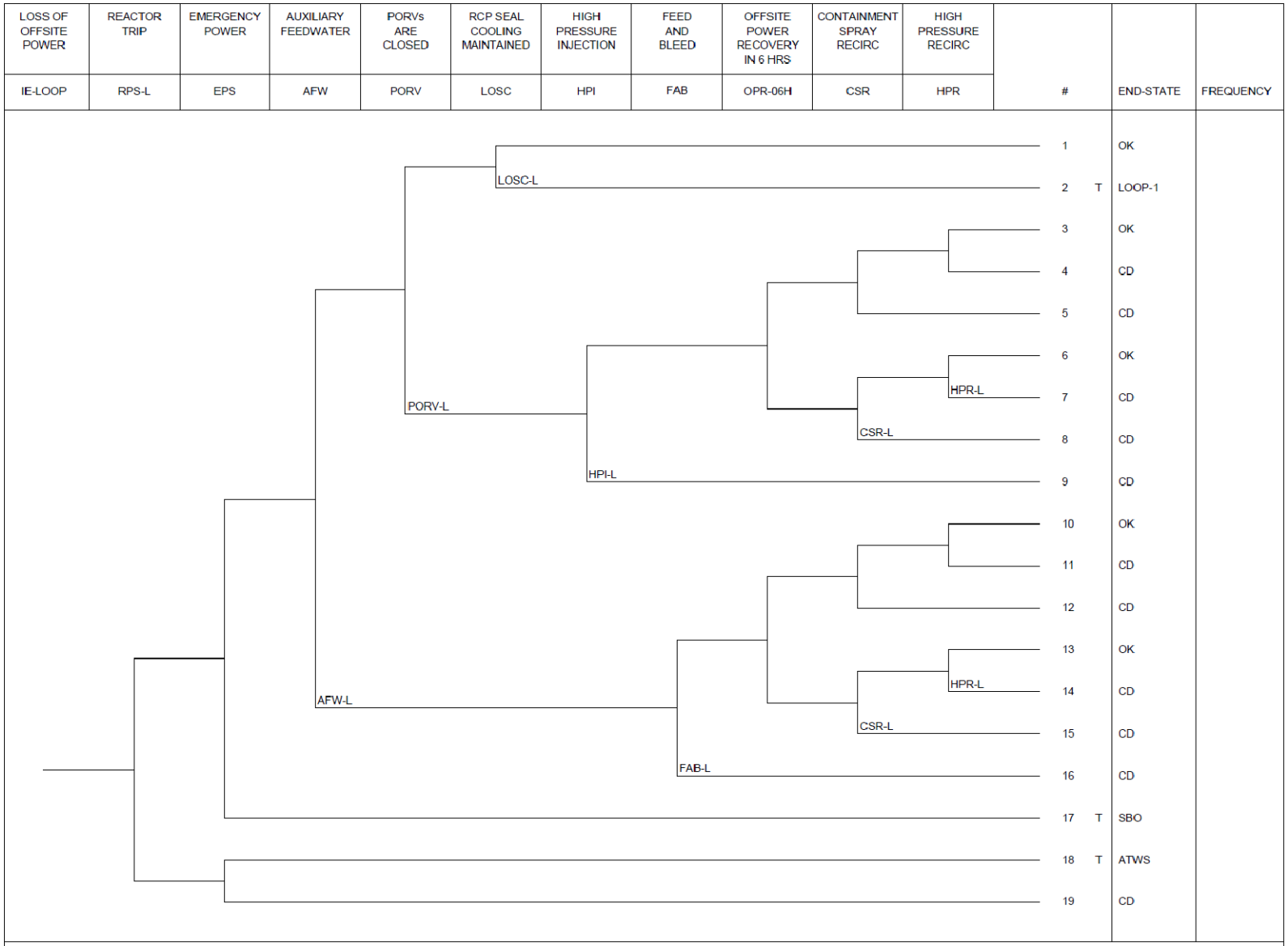
SLOCA - SURRY 1 & 2 SMALL LOSS-OF-COOLANT ACCIDENT 2009/07/09



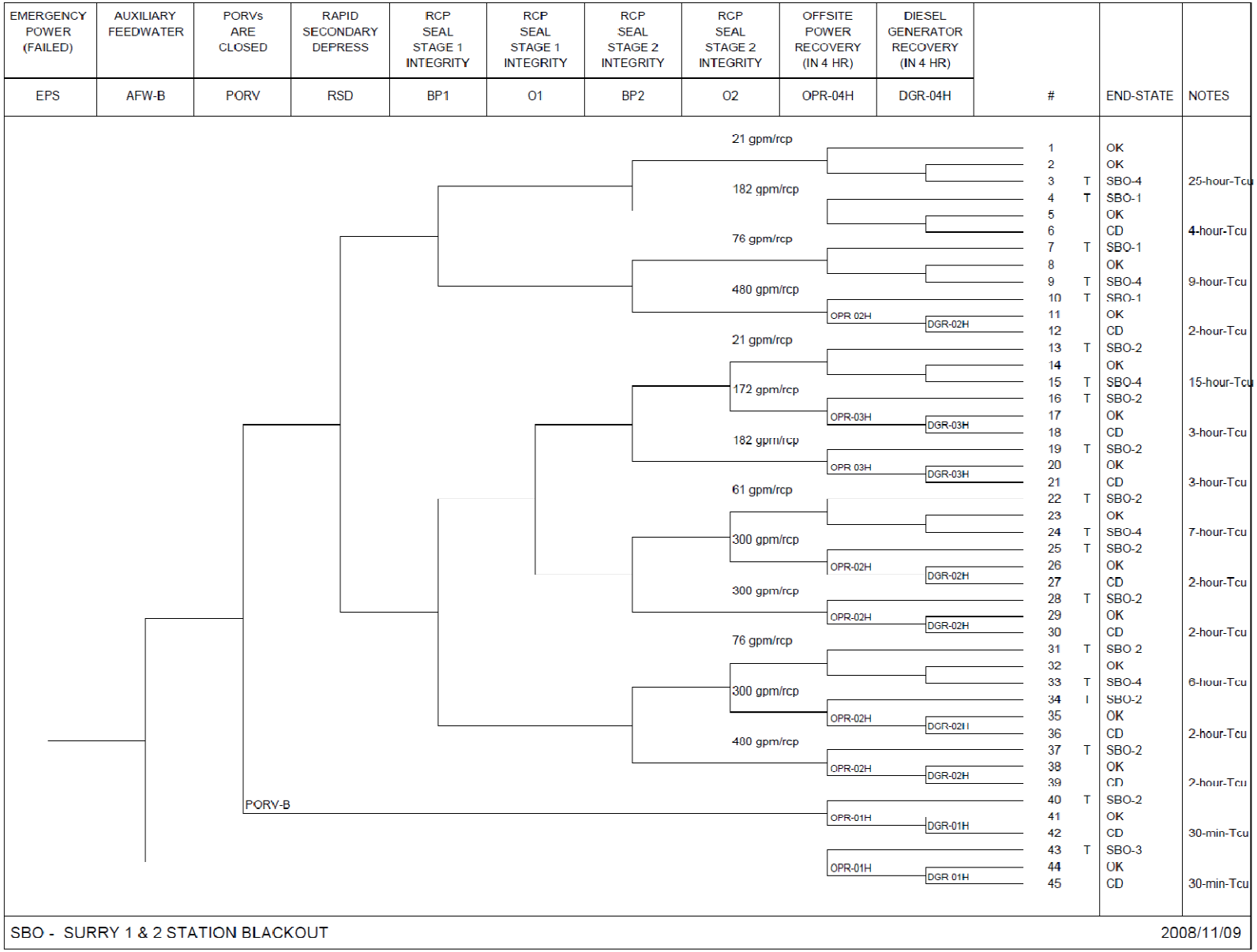
LOMFW - SURRY 1 & 2 LOSS OF MAIN FEEDWATER 2008/12/11



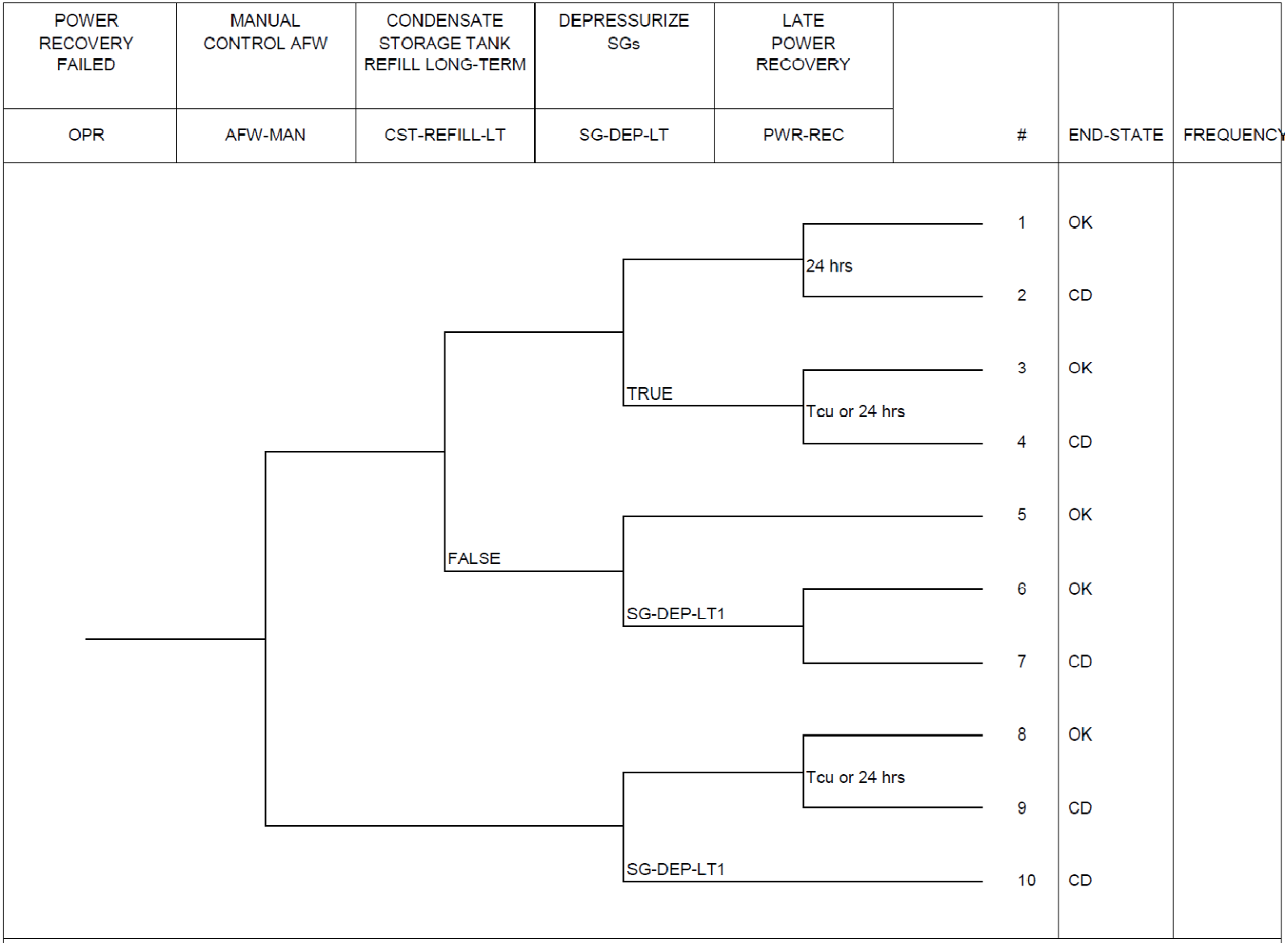
SGTR - SURRY 1 & 2 STEAM GENERATOR TUBE RUPTURE 2009/06/24



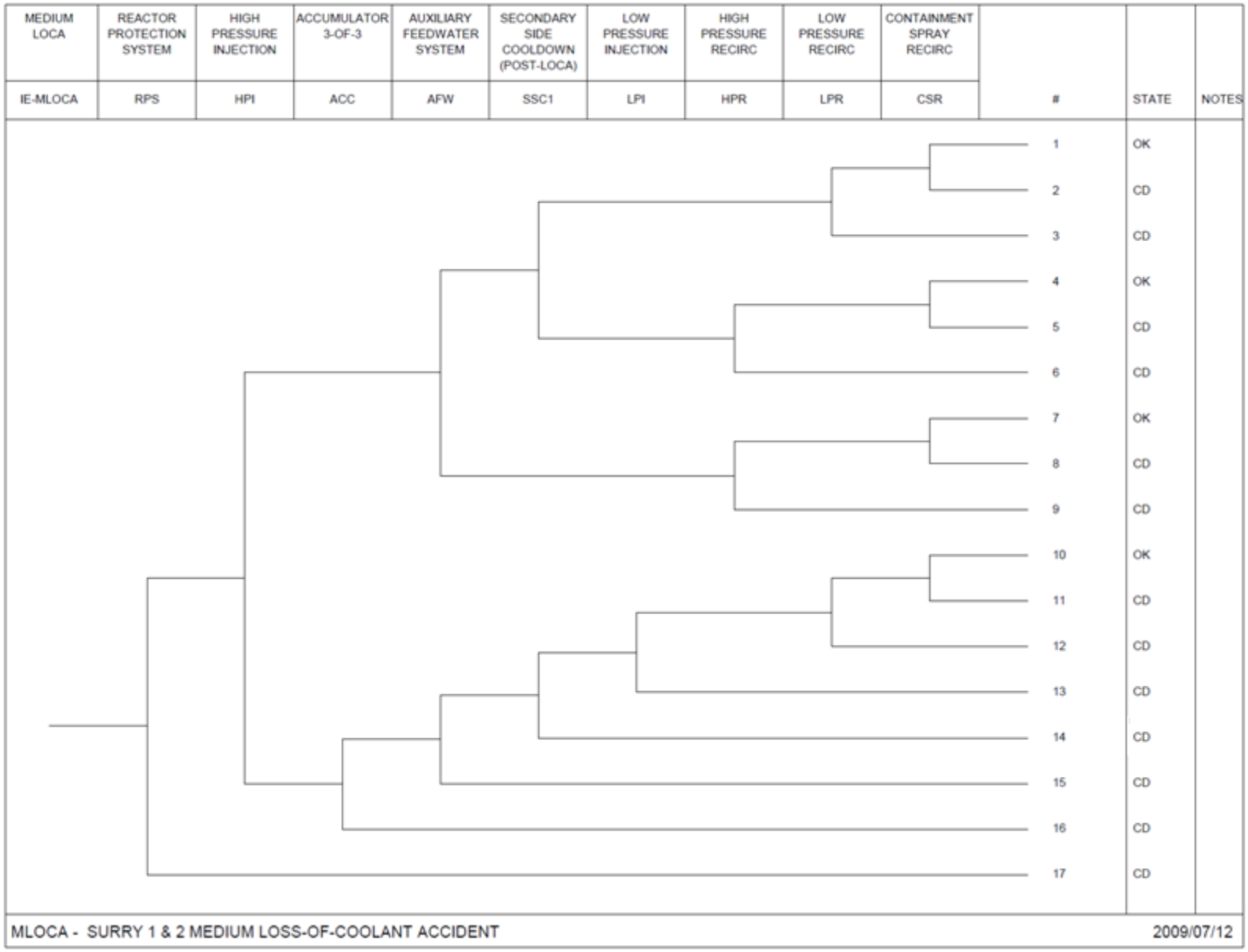
LOOPAV - SURRY 1 & 2 LOSS OF OFFSITE POWER: Average Value 2009/07/01

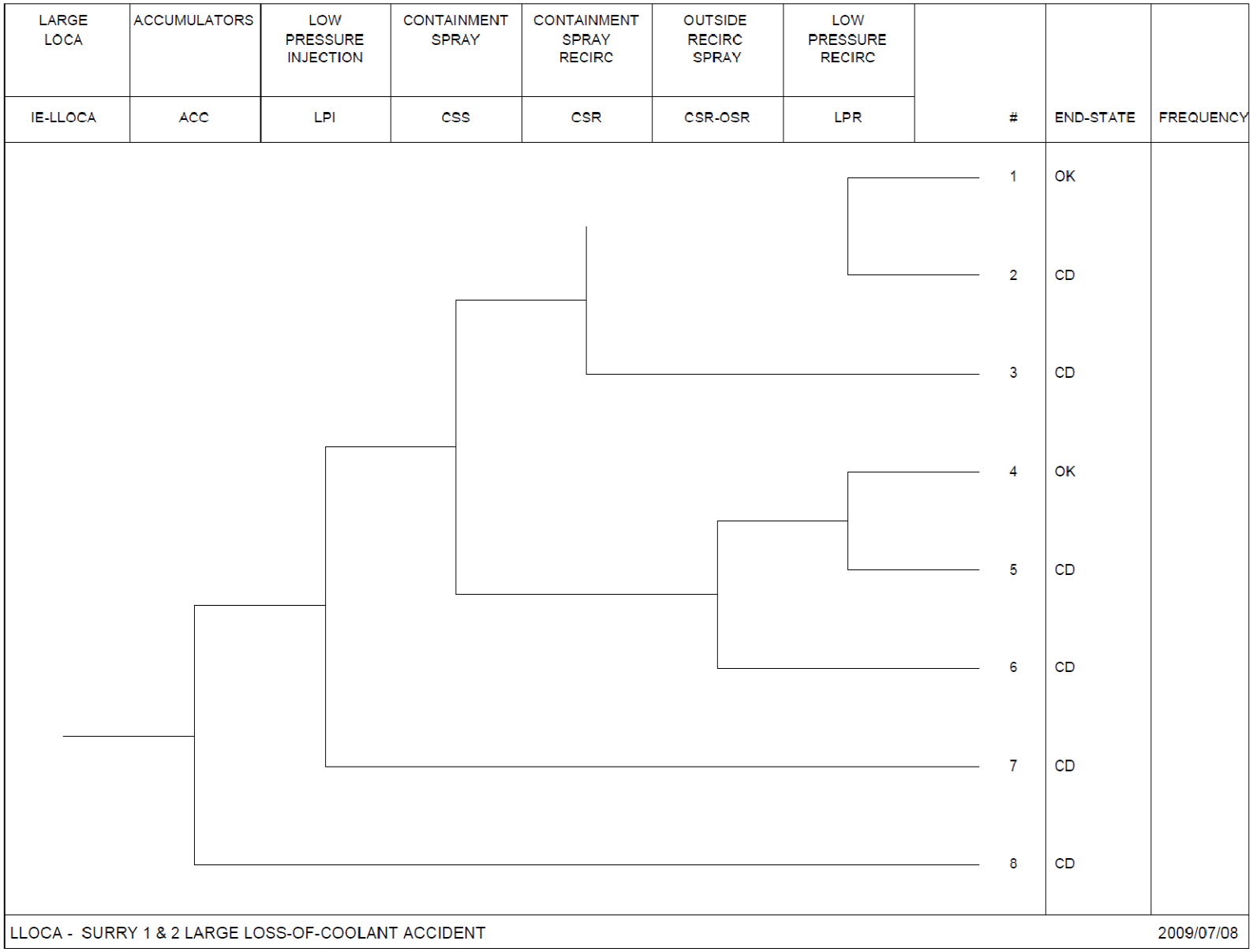


SBO - SURRY 1 & 2 STATION BLACKOUT 2008/11/09



SBO-4 - SURRY 1 & 2 STATION BLACKOUT - CONTINUED 2008/12/19

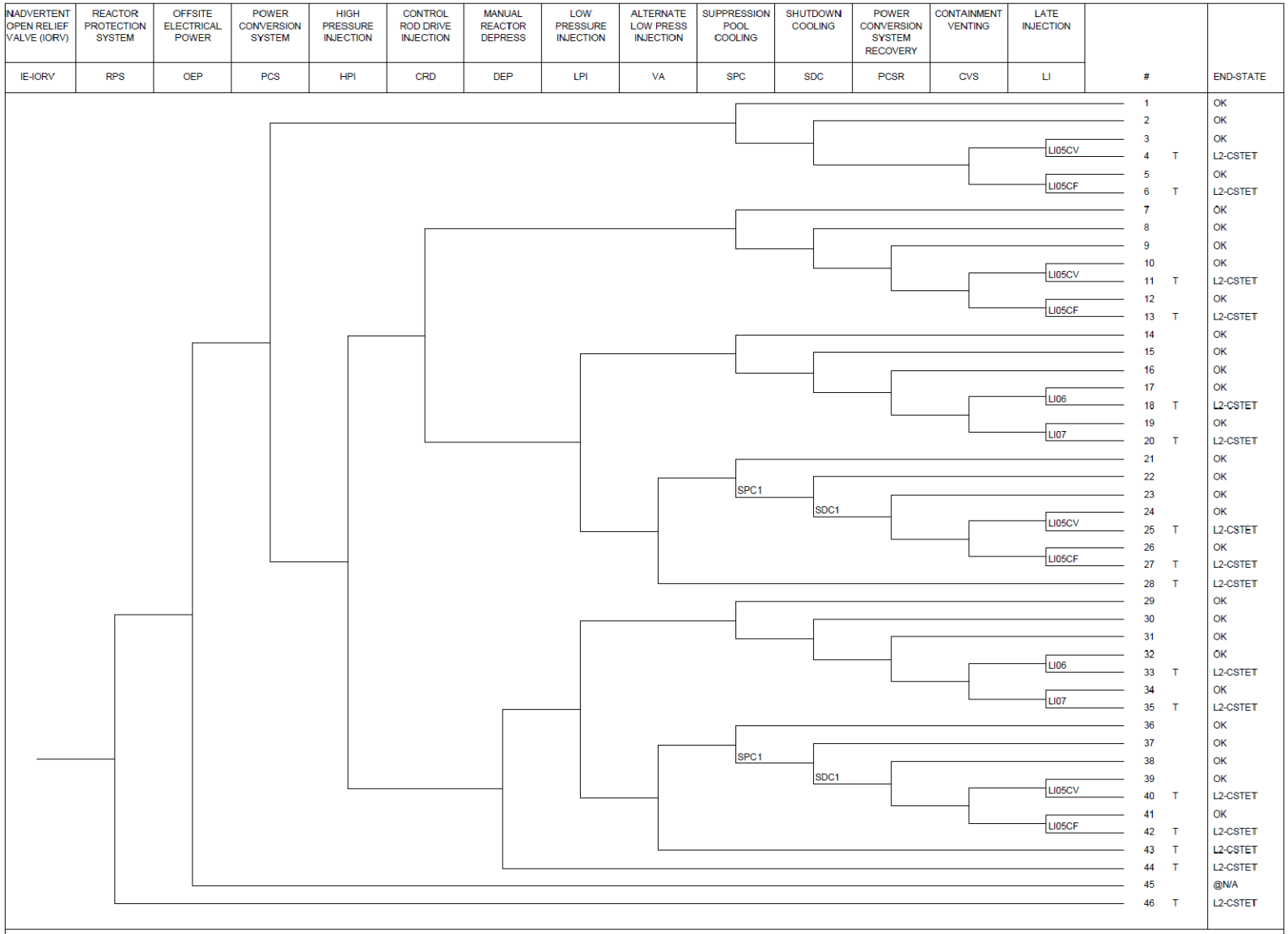

MEDIUM LOCA
REACTOR PROTECTION SYSTEM
HIGH PRESSURE INJECTION
ACCUMULATOR 3-OF-3
AUXILIARY FEEDWATER SYSTEM
SECONDARY SIDE COOLDOWN (POST-LOCA)
LOW PRESSURE INJECTION
HIGH PRESSURE RECIRC
LOW PRESSURE RECIRC
CONTAINMENT SPRAY RECIRC
IE-MLOCA
RPS
HPI
ACC
AFW
SSC1
LPI
HPR
LPR
CSR
#
STATE
NOTES
1 OK
2 CD
3 CD
4 OK
5 CD
6 CD
7 OK
8 CD
9 CD
10 OK
11 CD
12 CD
13 CD
14 CD
15 CD
16 CD
17 CD
MLOCA - SURRY 1 & 2 MEDIUM LOSS-OF-COOLANT ACCIDENT
2009/07/12



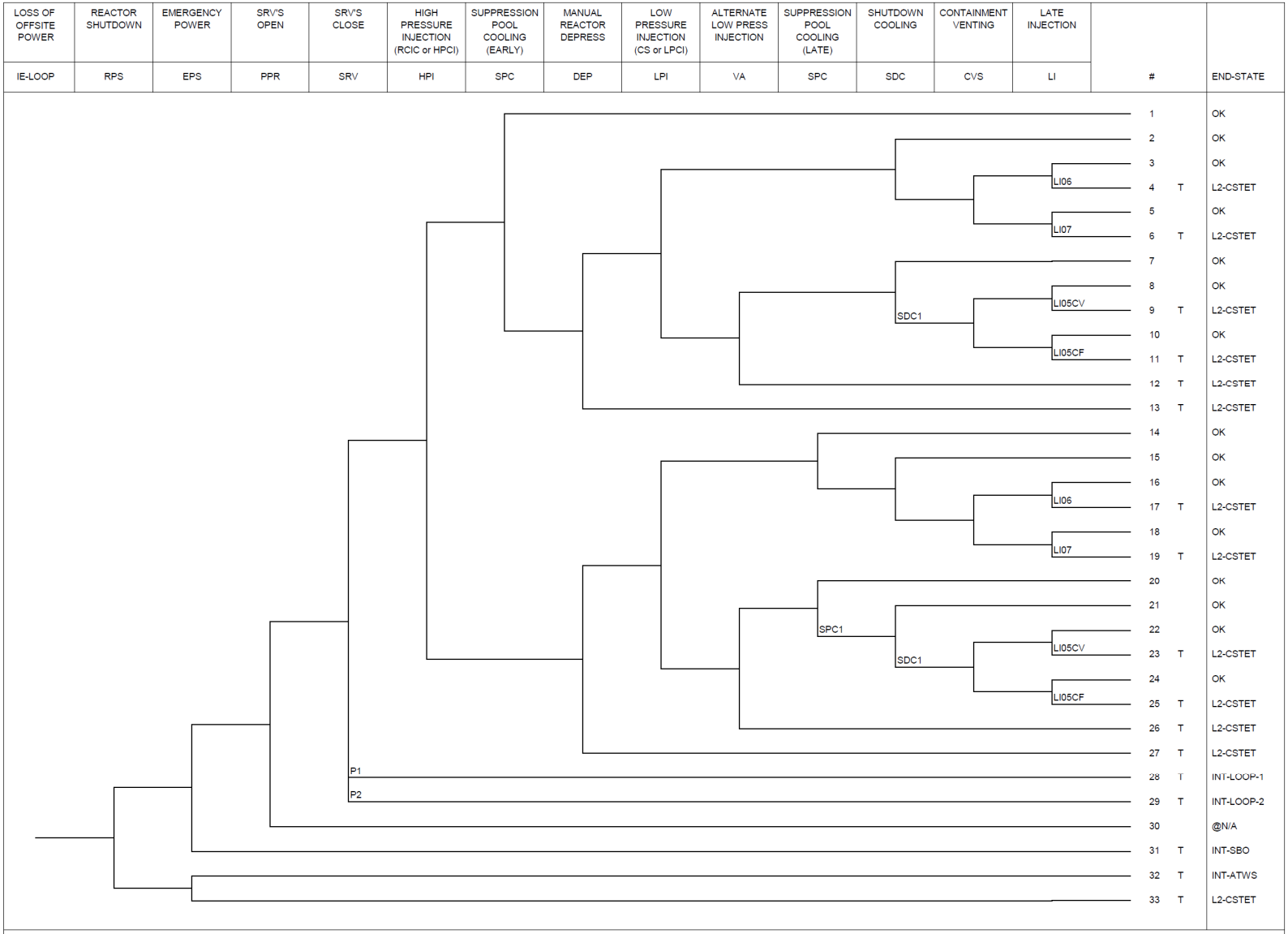
LLOCA - SURRY 1 & 2 LARGE LOSS-OF-COOLANT ACCIDENT 2009/07/08

C.2 Peach Bottom Event Trees

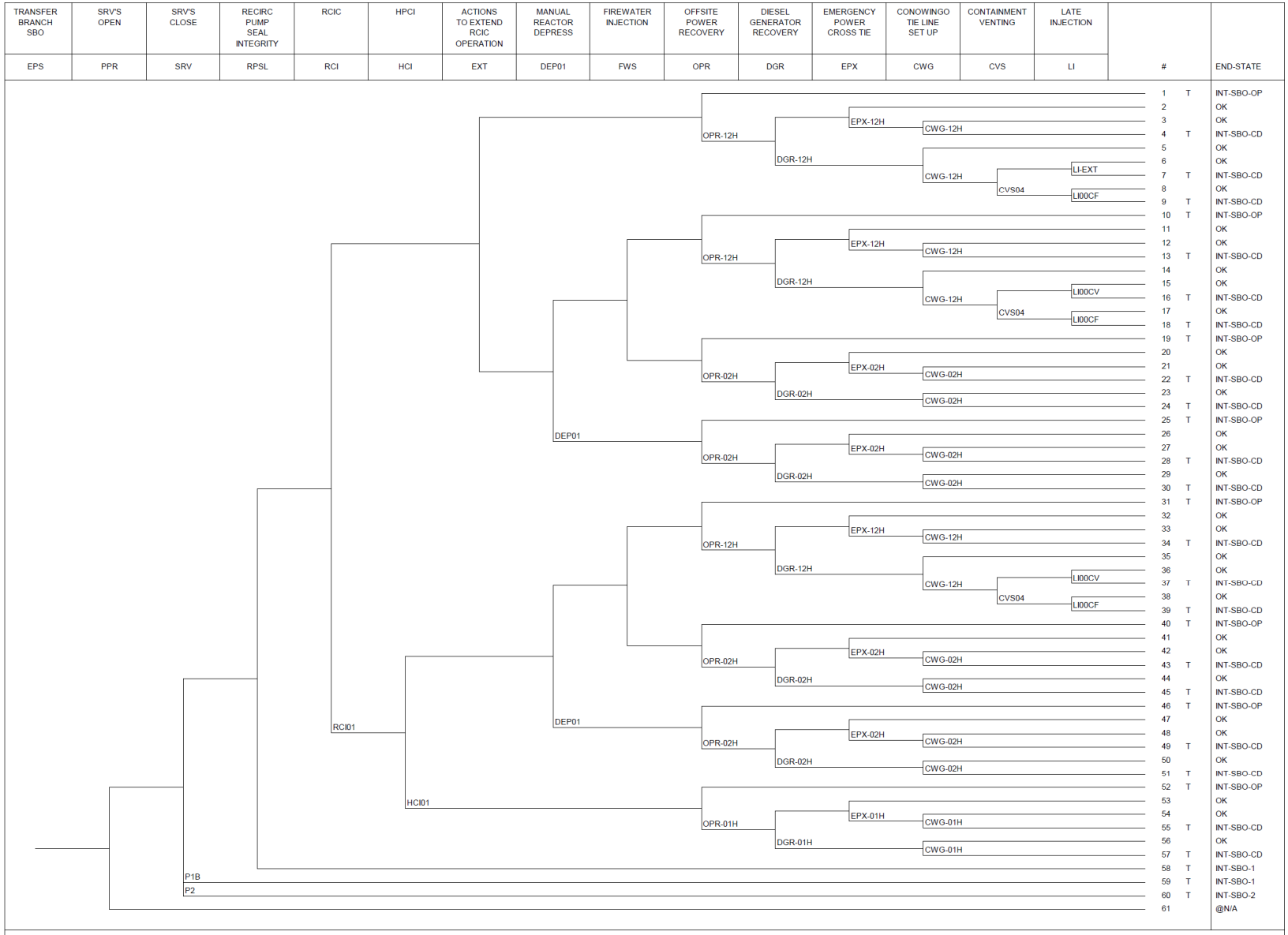
This section provides the relevant event trees from the Peach Bottom (v3.50) Standardized Plant Analysis Risk model, dated October 2009. These event trees show the sequences described in the main report.



INT-IORV - PEACH BOTTOM INADVERTENT OPEN RELIEF VALVE (IORV) 2009/07/01



INT-LOOP - PEACH BOTTOM LOSS OF OFFSITE POWER 2009/07/02



INT-SBO - PEACH BOTTOM STATION BLACKOUT 2009/07/02

ONE STUCK OPEN SRV	HIGH PRESSURE INJECTION	OFFSITE POWER RECOVERY IN 2 HRS	DIESEL GENERATOR RECOVERY IN 2 HRS	EMERGENCY POWER CROSS TIE IN 2 HRS	CONOWINGO TIE LINE SET UP IN 2 HRS		
P1	HPI	OPR-02H	DGR-02H	EPX-02H	CWG-02H	#	END-STATE
						1	OK
						2	OK
						3	OK
						4 T	INT-SBO-CD
						5	OK
						6 T	INT-SBO-CD
						7 T	INT-SBO-CD

INT-SBO-1 - PEACH BOTTOM ONE STUCK OPEN SAFETY/RELIEF VALVE 2009/07/01