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TABLE 1
ACCIDENT ANALYSIS MATRIX

	SINGLE FAILLIRE INCLUDES FAILLIRE OF A SHUIDOWN SYSTEM	DUAL FAILURE (COINCIDENT SAFELY SYSTEM UNAVAILABLE)					
PROCESS SYSTEM EVENT		EMERGENCY (DRE COULING FALL	CONTAINMENT FAILURE MODE			
		INJECTION	LOOP ISOLATION	CRASH COOL	ISCLATION	DOUSING	
Loss of reactivity control	Section 11.3.3.1	Emergency core cooling not required	Emergency core cooling not required	Emergency core cooling not required	Isolation not required	Dousing not required	
Loss of primary pressure control - pressurization - depressurization	Section 11.3.3.2.1 Section 11.3.3.2.1.1 Section 11.3.3.2.1.2	Emergency core cooling not required	Emergency core cooling not required	Energency core cooling not required	Isolation not required	Dousing not required	
Loss of secondary side pressure control - pressurization	Section 11.3.3.2.2 Section 11.3.3.2.2.3						
- depressurization	Bounded by large secondary side pipe breaks Section 11.3.3.2.2.3	Emergency core cooling not required	Emergency core ccoling not required	Emergency core cooling not required	Isolation not required	Dousing not required	
Loss of Class IV power - complete - partial	Section 11.3.2 Section 11.3.2.1 Section 11.3.2.2	Emergency core cooling not required	Emergency core cooling not required	Energency core cooling not required	Isolation not required	Dousing not required	
Heat transport pump seizure	Section 11.3.4.2	Emergency core cooling not required	Emergency core cooling not required	Emergency core cooling not required	Isolation not required	Dousing not required	

TABLE 1 (CONT'D.)

		DUAL FAILURE (COINCIDENT SAFETY SYSTEM UNAVAILABLE)					
	SINGLE FAILURE INCLUDES FAILURE OF A SHUIDOWN SYSTEM	EMERGENCY CORE COOLING FAILURE MODE			CONTAINMENT FAILURE MODE		
<u> </u> -		INJECTION	LOOP ISOLATION	CRASH COOL	ISOLATION	DOUSING	
Loss of primary coolant		Section	Section	Section	Section	Section	
- large breaks - small breaks	Section 11.3.5.1.2.4.1 Section 11.3.5.1.4.1.2	11.4.2.1.2	11.4.2.3	11.4.2.2	11.4.3.1.1	11.4.3.2.1	
- guart mans	Section 11.3.5.1.2.4.2 Section 11.3.5.1.4.1.1						
SINGLE CHANNEL EVENIS							
End fitting failure	Section 11.3.5.2	_	Covered by small loss of cooling	Cowered by small loss of cooling	Section 11.4.3.1.2.1	Section 11.4.3.2.2	
Pressure tube failure	Section 11.3.5.3	Section 11.4.2.1.3	_	Covered by small loss of cooling	Covered by channel blockage	Section 11.4.3.2.2	
Channel blockage	Section 11.3.4.1	_	Covered by small loss of cooling	Covered by small loss of cooling	Section 11.4.3.1.2.	Section 11.4.3.2.2	
Fuel handling failure, on-reactor	Section 11.3.1 Section 11.3.1.1		Covered by small loss of cooling	Covered by small loss of cooling	Section 11.4.3.1.2.3	Section 11.4.3.2.2	
Fuel handling failure, on-reactor	Section 11.3.1 Section 11.3.1.2	No signal to initiate emer- gency cooling	No signal to initiate emer- gency cooling	No signal to initiate emer- gency cooling	Covered by end fitting failure	Dousing not required	
Pipe breaks in heat transport auxiliary system	Section 11.3.6	No signal to initiate ener- gency exoling	No signal to initiate emer- gency cooling	No signal to initiate emer- gency cooling	No signal to initiate isolation	No signal to initiate dousing	

TABLE 1 (CONT'D.)

	SINGLE FAILURE INCLUDES FAILURE OF A SHUIDOWN SYSTEM	DUAL FAILURE (COINCIDENT SAFETY SYSTEM UNAVAILABLE)						
		<u> P</u> MERGEN	CONTAINMENT FAILURE MODE					
PROCESS SYSTEM EVENT		INJECTION	LOOP ISOLATION	CRASH COOL	ISOLATION	DOUSING		
Feedwater line failure								
- outside containment	Section 11.3.7.5.1 Section 11.3.5.1.4		Both loops intact, isolation has no function	Section 11.4.2.5 (no signal to initiate emergency gency core coolg	No signal to initiate isolation	No signal to initiate dousing		
inside contairment, upstream & downstream of check valve	Section 11.3.7.5 Section 11.3.7.5.3	Section 11.4.2.5 (Emergency core cooling not required)	Both loops intact, isolation has no function	Section 11.4.2.5 (Emergency core cooling not required)	Isolation not required	Covered by steam line failure		
Steam line failure - outside contairment	Section 11.3.7.6 Section 11.3.7.6.1 Section 11.3.7.6.2	Section 11.4.2.5 (no signal to initiate emergency core cooling)	Both loops intact, isolation has no function	Section 11.4.2.5 (no signal to initiate emergency core cooling)	No signal to initiate isolation	No signal to initiate dousing		
Steam line failure - inside contairment	Section 11.3.7.6 Section 11.3.7.6.3	Section 11.4.2.5 (covered by single failure case)		Section 11.4.2.5.2 (Obversed by single failure case)	Isolation not required	Section 11.4.3.2.3		
Loss of shutdown cooling	Section 11.3.4.4	No signal to initiate emergency core cooling	Both loops intact, isolation has no function	Crash cooling not required	Isolation not required	Dousing not required		
Failure of end shield cooling	Section 11.3.4.4	Emergency core cooling not required	Both loops intact, isolation has no function	No signal to initiate emergency core cooling	Isolation not required	Dousing not required		