

	<b>INDIANA AND MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS</b> <b>REPORT</b>	Revision: 16.1
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### TIME SEQUENCE OF EVENTS

Accident	Event	Time (sec)
Main Feedwater Line Rupture (With Power)		
	Main feedwater line rupture occurs	10.0
	Low-low steam generator water level trip signal initiated	16.0
	Rods begin to fall into core	18.0
	SIS low pressurizer pressure setpoint reached	78.0
	Feedwater isolation (Loops 2, 3, 4)	86.0
	SIS flow starts	106.0
	SIS low steamline pressure setpoint reached in two loops	239.8
	Steamline isolation (All loops)	250.8
	Auxiliary feedwater starts to deliver to intact steam generators	610.0
	Steam generator safety valve setpoint reached in intact steam generators	910.0
	Core decay heat plus RCP heat decreases to auxiliary feedwater heat removal capacity	~1500.0
Pressurizer safety valve setpoint reached	Never reached	
Main Feedwater Line Rupture (Without Power)		
	Main feedwater line rupture occurs	10.0
	Low-low steam generator water level trip signal initiated	16.0
	Rods begin to fall into core	18.0
	RCS pumps begin to coastdown	20.0
	SIS low steamline pressure setpoint reached in two loops	150.6
	Feedwater isolation (Loops 2,3,4)	158.6
	Steamline isolation (All loops)	161.6
SIS flow starts	189.0	

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**TIME SEQUENCE OF EVENTS**

<b>Accident</b>	<b>Event</b>	<b>Time (sec)</b>
	Auxiliary feedwater started to deliver to intact steam generators	610.0
	Steam generator safety valve setpoint reached in intact steam generators	668.0
	Core decay heat decreases to auxiliary feedwater heat removal capacity	~1200.0
	Pressurizer safety valve setpoint reached	Never reached