Step 1: Identify Internal Events PRA Sequences to be Included (and those to be excluded) in the Fire PRA Model

	INITIATING EVENTS IN THE PRA MODEL						
Initiator	Average Frequency (per yr)	Description	Accident Sequence or Event Tree Model	Address in Fire PRA Model? (Y or N)	Comments		
%T1	7.23E-01	Reactor Trip	Transient Event Tree				
%T2	9.33E-02	Loss of Condenser Vacuum	Transient Event Tree				
%T3	4.13E-01	Turbine trip	Transient Event Tree				
%T4	3.73E-02	Loss of Main Feedwater	Transient Event Tree				
%T5P	4.25E-02	Loss of Offsite Power (Plant-Centered)	Transient Event Tree				
%T5C	1.02E-02	Loss of Off-Site Power (Grid-Related)	Transient Event Tree				
%T5D	6.26E-03	Loss of Off-Site Power (Weather-Induced)	Transient Event Tree				
%T6	7.35E-03	Steamline/Feed line Break Upstream of Main Steam Isolation valves	Main Steamline Break Event				

	INITIATING EVENTS IN THE PRA MODEL						
Initiator	Average Frequency (per yr)	Description	Accident Sequence or Event Tree Model	Address in Fire PRA Model? (Y or N)	Comments		
		or Downstream of Feedwater Isolation Valves (Includes spurious-open atmospheric dump valves)	Tree				
%T7	5.44E-03	Steamline Break Downstream of Main Steam isolation valves (Includes spurious-open condenser dump valves)	Main Steamline Break Event				
%T8	2.94E-04	Loss of 4160 V Bus 1	Transient Event Tree				
%T9	2.94E-04	Loss of 4160 V Bus A	Transient Event Tree				
%T10	2.94E-04	Loss of 4160 V Bus B	Transient Event Tree				
%T11	2.94E-04	Loss of 4160 V Bus 2	Transient Event Tree				
%T12	3.00E-03	Loss of 125 VDC Bus A	Transient Event Tree				
%T13	3.00E-03	Loss of 125 VDC Bus B	Transient Event Tree				

INITIATING EVENTS IN THE PRA MODEL						
Initiator	Average Frequency (per yr)	Description	Accident Sequence or Event Tree Model	Address in Fire PRA Model? (Y or N)	Comments	
%T15	Fault Tree Model %T15-INIT	Loss of CCW System	Transient Event Tree			
%T16	Fault Tree Model %T16-INIT	Loss of Service Water System	Transient Event Tree			
%T17	Fault Tree Model %T17-INIT	Loss of Instrument Air	Transient Event Tree			
%T21	3.41E-02	Closure of MSIV (1 SG Loop)	Transient Event Tree			
%T22	1.24E-02	Closure of both MSIVs	Transient Event Tree			
%T23	1.78E-01	Partial Load Rejection	Transient Event Tree			
%T24	5.79E-02	Spurious Steam Gen. Isolation Signal	Transient Event Tree			
%T25	7.23E-02	Reactor Trip With PORV Opening/Demand	Transient Event Tree			
%T26	Fault Tree Model %T26-INIT	Loss of Power from120 VAC Buses A & B	Transient Event Tree			

	INITIATING EVENTS IN THE PRA MODEL						
Initiator	Average Frequency (per yr)	Description	Accident Sequence or Event Tree Model	Address in Fire PRA Model? (Y or N)	Comments		
%S	6.8E-03	Small LOCA (pipe breaks and RCP seal LOCA)	Small LOCA Event Tree				
%M	9.60E-06	Medium LOCA (pipe breaks)	Medium LOCA Event Tree				
%A	7.77E-05	Large LOCA (pipe breaks)	Large LOCA Event Tree				
%R	7.93E-03	Steam Generator Tube Rupture	SGTR Event Tree				
%l1	1.000E-07	Interfacing Systems LOCA at RCS/LPI Interface (1 MOV and 1 check valve in series)	ISLLPI Sequence (single event model)				
%l2	2.000E-07	Interfacing Systems LOCA at RCS/RHR Interface (2 MOVs in series)	ISLRHR Sequence (single event model)				
%I3	Fault Tree Model I3QINIT	Interfacing Systems LOCA at RCS/CCW interface (Reactor Coolant Pump Cooler rupture)	ISLCCW Sequence				
%VR	2.70E-07	Reactor Vessel Rupture	Single Event				

	INITIATING EVENTS IN THE PRA MODEL						
Initiator	Average Frequency (per yr)	Description	Accident Sequence or Event Tree Model	Address in Fire PRA Model? (Y or N)	Comments		
			in Master Fault Tree				

ACCIDENT SEQUENCE OR EVENT TREE MODELS IN THE PRA							
Accident Sequence or Event Tree Model	Description	Additional Details	Address in Fire PRA Model? (Y or N)	Comments			
TRA	Transient	Includes transient-induced LOCAs such as stuck-open PORV and RCP seal LOCA					
SLOCA	Small LOCA	Pipe breaks & RCP seal LOCA					
MLOCA	Medium LOCA	Pipe breaks					
LLOCA	Large LOCA	Pipe breaks					
ATWS	Anticipated Transients Without Scram	Reactor Protection System fails safe on loss of power. Trip circuits are highly redundant and confirmed to be physically separated.					
SGTR	Steam Generator Tube Rupture						
MSLB	Main Steamline Break	Includes spurious opening of secondary relief valves.					
ISLCCW	Interfacing Systems LOCA at RCS/CCW interface	Rupture of Reactor Coolant Pump Cooler					
ISLRHR	Interfacing Systems LOCA at RCS/RHR Interface	Fire-induced opening of RHR suction valves					
ISLLPI	Interfacing Systems LOCA at RCS/LPI Interface	Fire-induced opening of LPI injection valve					
New	Spurious Safety Injection with HPI	Requires multiple spurious valve openings and possibly 2 <sup>nd</sup> pump start					

ACCIDENT SEQUENCE OR EVENT TREE MODELS IN THE PRA							
Accident Sequence or Event Tree Model	Description	Additional Details	Address in Fire PRA Model? (Y or N)	Comments			
New	Feedwater ramp-up or AFW spurious start	May require multiple spurious events (need to check)					
New	RWST drain down event	Requires combination of either or both MOV-5,6 with either or both MOV-3,4 spuriously opening.					