

	GENERAL EMERGENCY	SITE AREA EMERGENCY	ALERT	UNUSUAL EVENT		GENERAL EMERGENCY	SITE AREA EMERGENCY	ALERT	UNUSUAL EVENT		
Abnormal Rad Release	Offsite Rad Conditions	RS1 Offsite Dose Resulting from an Actual or Imminent Release of Gaseous Radioactivity Exceeds 1000 mrem TEDE or 5000 mrem Thyroid CDE for the Actual or Projected Duration of the Release Using Actual Meteorology.	RS1.1 1 2 3 4 5 6 DEF	RS1.2 1 2 3 4 5 6 DEF	RS1.3 1 2 3 4 5 6 DEF	RS1.1 1 2 3 4 5 6 DEF	RS1.2 1 2 3 4 5 6 DEF	RS1.3 1 2 3 4 5 6 DEF	RS1.1 1 2 3 4 5 6 DEF	RS1.2 1 2 3 4 5 6 DEF	RS1.3 1 2 3 4 5 6 DEF
	Onsite Rad Conditions	None	None	None	None	None	None	None	None	None	None
	None	None	None	None	None	None	None	None	None	None	None
Natural & Destructive Phenomenon	HA1 Natural and Destructive Phenomena Affecting the Plant VITAL AREA	HA1.1 1 2 3 4 5 6 DEF	HA1.2 1 2 3 4 5 6 DEF	HA1.3 1 2 3 4 5 6 DEF	HA1.4 1 2 3 4 5 6 DEF	HA1.5 1 2 3 4 5 6 DEF	HA1.6 1 2 3 4 5 6 DEF	HA1.7 1 2 3 4 5 6 DEF	HA1.1 1 2 3 4 5 6 DEF	HA1.2 1 2 3 4 5 6 DEF	HA1.3 1 2 3 4 5 6 DEF
	HA2 FIRE or EXPLOSION Affecting the Operability of Plant Safety Systems Required to Establish or Maintain Safe Shutdown	HA2.1 1 2 3 4 5 6 DEF	HA2.2 1 2 3 4 5 6 DEF	HA2.3 1 2 3 4 5 6 DEF	HA2.4 1 2 3 4 5 6 DEF	HA2.5 1 2 3 4 5 6 DEF	HA2.6 1 2 3 4 5 6 DEF	HA2.7 1 2 3 4 5 6 DEF	HA2.1 1 2 3 4 5 6 DEF	HA2.2 1 2 3 4 5 6 DEF	HA2.3 1 2 3 4 5 6 DEF
	HA3 Release of Toxic or Flammable Gases Within or Contiguous to a VITAL AREA Which Jeopardizes Operation of Systems Required to Maintain Safe Operations or Establish or Maintain Safe Shutdown	HA3.1 1 2 3 4 5 6 DEF	HA3.2 1 2 3 4 5 6 DEF	HA3.3 1 2 3 4 5 6 DEF	HA3.4 1 2 3 4 5 6 DEF	HA3.5 1 2 3 4 5 6 DEF	HA3.6 1 2 3 4 5 6 DEF	HA3.7 1 2 3 4 5 6 DEF	HA3.1 1 2 3 4 5 6 DEF	HA3.2 1 2 3 4 5 6 DEF	HA3.3 1 2 3 4 5 6 DEF
Hazards	HG1 Security Event Resulting in Loss of Physical Control of the Facility	HG1.1 1 2 3 4 5 6 DEF	HG1.2 1 2 3 4 5 6 DEF	HG1.3 1 2 3 4 5 6 DEF	HG1.4 1 2 3 4 5 6 DEF	HG1.5 1 2 3 4 5 6 DEF	HG1.6 1 2 3 4 5 6 DEF	HG1.7 1 2 3 4 5 6 DEF	HG1.1 1 2 3 4 5 6 DEF	HG1.2 1 2 3 4 5 6 DEF	HG1.3 1 2 3 4 5 6 DEF
	HS1 Confirmed Security Event in a Plant VITAL AREA	HS1.1 1 2 3 4 5 6 DEF	HS1.2 1 2 3 4 5 6 DEF	HS1.3 1 2 3 4 5 6 DEF	HS1.4 1 2 3 4 5 6 DEF	HS1.5 1 2 3 4 5 6 DEF	HS1.6 1 2 3 4 5 6 DEF	HS1.7 1 2 3 4 5 6 DEF	HS1.1 1 2 3 4 5 6 DEF	HS1.2 1 2 3 4 5 6 DEF	HS1.3 1 2 3 4 5 6 DEF
	HM Confirmed Security Event in a Plant PROTECTED AREA	HM.1 1 2 3 4 5 6 DEF	HM.2 1 2 3 4 5 6 DEF	HM.3 1 2 3 4 5 6 DEF	HM.4 1 2 3 4 5 6 DEF	HM.5 1 2 3 4 5 6 DEF	HM.6 1 2 3 4 5 6 DEF	HM.7 1 2 3 4 5 6 DEF	HM.1 1 2 3 4 5 6 DEF	HM.2 1 2 3 4 5 6 DEF	HM.3 1 2 3 4 5 6 DEF

Draft G 10-17-04  
For Review Only

Table F-1 FISSION PRODUCT BARRIER REFERENCE TABLE

Fuel Cladding Barrier		RCS Barrier		Containment Barrier	
Loss	Potential Loss	Loss	Potential Loss	Loss	Potential Loss
1. Critical Safety Function Status Conditions requiring entry into Core-Cooling Red	1. Critical Safety Function Status Conditions requiring entry into Core-Cooling-Orange OR Conditions requiring entry into Heat Sink-Red	1. Critical Safety Function Status Not Applicable	1. Critical Safety Function Status Conditions requiring entry into Heat Sink-Red	1. Critical Safety Function Status Not Applicable	1. Critical Safety Function Status Conditions requiring entry into Containment-Red
2. Primary Coolant Activity Level GREATER THAN 300 (CVI) or 131 equivalent	2. Primary Coolant Activity Level Not Applicable	2. RCS Leak Rate GREATER THAN available makeup capacity as indicated by a loss of RCS subcooling LESS THAN OR EQUAL TO 20 (35) degree F	2. RCS Leak Rate Unacceptable leak exceeding 60 gpm	2. Containment Pressure Rapid unexplained decrease following initial increase OR Containment pressure or sump level response not consistent with LOCA conditions	2. Containment Pressure 48 PSIG and increasing OR Containment hydrogen concentration GREATER THAN OR EQUAL TO 6% OR Containment pressure GREATER THAN 23 psig with LESS THAN one full train of depressurization equipment operating
3. Core Exit Thermocouple Readings GREATER THAN 1200 degree F	3. Core Exit Thermocouple Readings GREATER THAN 700 degree F	3. SG Tube Rupture SGR that results in an ECCS (S) Actuation	3. SG Tube Rupture Not Applicable	3. Core Exit Thermocouple Readings Not Applicable	3. Core Exit Thermocouple Readings in excess of 1200 degrees F and restoration procedures not effective within 15 minutes OR Core exit thermocouples in excess of 700 degrees F with reactor vessel level below 40% RVLS Full Range and restoration procedures not effective within 15 minutes
4. Reactor Vessel Water Level Not Applicable	4. Reactor Vessel Water Level LESS THAN - 40% RVLS Full Range (no RCPs) - 62% RVLS Dynamic Head Range (1 RCP) - 62% RVLS Dynamic Head Range (2 RCPs)	4. Containment Radiation Monitoring Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the RCS Barrier	4. Containment Radiation Monitoring Not Applicable	4. SG Secondary Side Release with P-to-S Leakage Ruptured S/G is also FAULTED outside of containment	4. SG Secondary Side Release with P-to-S Leakage Not Applicable
5. Containment Radiation Monitoring Containment rad monitor (12)R-48 or 49 reading GREATER THAN 200 R/hr	5. Containment Radiation Monitoring Not Applicable	5. Other Indications Not Applicable	5. Other Indications Not Applicable	5. CNMT Isolation Valves Status After CNMT Isolation Containment isolation Valve(s) not closed AND Downstream pathway to the environment exists after Containment Isolation	5. CNMT Isolation Valves Status After CNMT Isolation Not Applicable
6. Other Indications RCS shutdown line radiation (12)R-9 GREATER THAN 10 R/hr	6. Other Indications Not Applicable	6. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Fuel Clad Barrier	6. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Fuel Clad Barrier	6. Significant Radioactive Inventory in Containment Not Applicable	6. Significant Radioactive Inventory in Containment Containment rad monitor (12)R-48 or 49 reading GREATER THAN 800 R/hr
7. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Fuel Clad Barrier	7. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Fuel Clad Barrier	7. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Containment Barrier	7. Emergency Director Judgment Any condition in the opinion of the Emergency Director that indicates Loss or Potential Loss of the Containment Barrier	7. Other Indications Not Applicable	7. Other Indications Not Applicable

Monitor	GE	SAE	Alert	UE
<b>Gaseous</b>				
(12) R-50 High Range Stack Gas Monitor	3300 mR/hr	330 mR/hr	N/A	N/A
(12) R-22 Shield Building Vent Rad Monitor	N/A	N/A	200 X Alarm*	2 X Alarm*
1R-30* & 1R-37* Unit 1 Aux. Building Vent Rad Monitors	N/A	N/A	200 X Alarm*	2 X Alarm*
1R-30* & 2R-37* Unit 2 Aux. Building Vent Rad Monitors	N/A	N/A	200 X Alarm*	2 X Alarm*
R-35* Radwaste Building Vent Rad Monitor	N/A	N/A	200 X Alarm*	2 X Alarm*
R-25* & R-31* Spent Fuel Pool Vent Rad Monitors	N/A	N/A	200 X Alarm*	2 X Alarm*
<b>Liquid</b>				
R-18* Waste Effluent Liquid Monitor	N/A	N/A	200 X Alarm*	2 X Alarm*
R-19* Blowdown Radiation Monitor	N/A	N/A	200 X Alarm*	2 X Alarm*
R-21* Circ. Water Discharge Monitor	N/A	N/A	200 X Alarm*	2 X Alarm*

Area	HU1.6*	HU2.1	HA1.2	HA1.3	HA1.4	HA1.5	HA2.1	HA3.1	HA3.2	RA3.2
Shield/Containment Building	X	X	X	X	X	X	X	X	X	X
Auxiliary Building	X	X	X	X	X	X	X	X	X	X
DSiD Diesel Generator Building	X	X	X	X	X	X	X	X	X	X
Plant Screenhouse	X	X	X	X	X	X	X	X	X	X
Control Room/Relay Room	X	X	X	X	X	X	X	X	X	X
Turbine Building	X	X	X	X	X	X	X	X	X	X
Condensate Storage Tanks	X	X	X	X	X	X	X	X	X	X

Sound Powered Phones	
Plant Paging System	
Plant Telephone Network	

  

Plant Telephone Network	
Plant Radio System (dedicated offsite channels)	
ENS Network	