

MILLSTONE UNIT 2 EMERGENCY ACTION LEVELS

GENERAL EMERGENCY ALPHA ☒ GENERAL EMERGENCY BRAVO ☒ SITE AREA EMERGENCY CHARLIE-TWO ☐ ALERT CHARLIE-ONE ☐ UNUSUAL EVENT DELTA-TWO ☒ UNUSUAL EVENT DELTA-ONE ☐

IN-PLANT RADIATION			SECURITY THREAT/ DESTRUCTIVE PHENOMENA			FIRE/GASES			JUDGEMENT			CLASSIFICATION		
GS1	MAJOR FUEL DAMAGE	Mode ALL	TG1	SECURITY EVENT	Mode ALL				JG1	JUDGEMENT	Mode ALL	GENERAL EMERGENCY		
RM8220/R2231 Reading > 1,200 R/h At Least 20% Fuel Clad Damage As Determined By Core Damage Rating Spent Fuel Is Exposed from Water Loss from Open Vessel Cavity, Or SF Pool AND BOTH of the following: Spent Fuel Has Decayed < 30 Days CTMT Integrity Is NOT Established OR Exposed Spent Fuel Is Outside CTMT			1. Loss of Physical Control of the Control Room 2. Loss of Physical Control of Remote Shutdown Capability						Other Conditions Exist For Which Judgement Indicates Potential Or Imminent Substantive Core Degradation With Potential for Loss of Containment OR 2. Potential for Uncontrolled Physical Releases That Result in an Event Expected To Exceed the Basic Plant Exposure Levels Outside the Site Boundary			ALPHA OR BRAVO Events in Progress or Have Occurred Which Indicate a Potential Substantial Degradation or Melting With Potential for Loss of Containment Integrity		
GS1	SPENT FUEL DAMAGE	Mode ALL	TS1	SECURITY EVENT	Mode ALL	GS1	CONTROL ROOM EVACUATION	Mode ALL	JS1	JUDGEMENT	Mode ALL	SITE AREA EMERGENCY		
Spent Fuel Is Exposed from Open Vessel or Cavity AND BOTH of the following: Spent Fuel Has Decayed < 30 Days CTMT Integrity Established			Intrusion Into Vital Area by a Hostile Force			Unit Control From Hot Shutdown Panel C-10 Or C-21 NOT Established Within 15 Minutes After Control Room Evacuation			Other Conditions Exist For Which Judgement Indicates Actual Or Likely Major Failures of Plant Functions Needed For Protection Of The Public			CHARLIE-TWO Events in Progress or Have Occurred Which Involve Actual or Likely Major Failures of Plant Functions Needed for Protection of the Public		
SA1	SPENT FUEL ASSEMBLY DAMAGE	Mode ALL	TA1	SECURITY EVENT	Mode ALL	GA1	CONTROL ROOM EVACUATION	Mode ALL	JA1	JUDGEMENT	Mode ALL	ALERT		
Spent Fuel is Exposed from Open Vessel, Cavity, or SF Pool AND Spent Fuel Has Decayed ≥ 30 Days Fuel Handling Accident Causing Damage to Spent Fuel, Indicated by Fuel Building OR Containment Radiation Monitors Increasing			Intrusion Into Protected Area by a Hostile Force			Control Room Evacuation Initiated			Any Condition For Which Judgement Indicates That Safety Systems May Be Degraded AND Which Requires Emergency Response Organization Staffing			CHARLIE-ONE Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant		
SA2	PLANT RADIATION	Mode ALL	TA2	DESTRUCTIVE PHENOMENA	Mode ALL	GA2	FIRE/EXPLOSION	Mode ALL						
Radiation Readings > 15 mR/hr in Control Room OR Central Alarm Station OR Secondary Alarm Station Radiation Reading > 5 R/hr in Areas Requiring Access for Safe Shutdown			1. Seismic Event > 0.09g ZPA 2. Onsite Sustained Windspeed > 90 MPH 3. Visible Damage to Structures or Equipment AND Affecting Safe Shutdown 4. Vessel or Vehicle Collision AND Affecting Safe Shutdown 5. Missiles Affecting Safe Shutdown 6. Flooding Affecting Safe Shutdown			Fire or Explosion Affecting Safe Shutdown Area AND Damage to Structures OR Equipment Indicated			GA3 TOXIC/FLAMMABLE GASES Mode ALL					
						Life Threatening Toxic Gases OR Flammable Gas Concentrations as Identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan" Affecting Areas for Safe Shutdown								
GU1	RAD MONITORS	Mode ALL	TU1	SECURITY EVENT	Mode ALL	GU1	FIRE	Mode ALL	JU1	JUDGEMENT	Mode ALL	UNUSUAL EVENT		
Uncontrolled Refuel Pool Water Level Decrease AND Rad Levels Require Evacuation of CTMT Or Spent Fuel Pool Area Unexpected Area Rad Monitor Reading Offscale High OR > 1000 Times Normal Reading			Bomb Device Discovered in Protected Area			Fire in Building OR Areas Adjacent to Areas Needed for Safe Shutdown NOT Extinguished Within 15 Minutes of Notification OR Verification of Control Room Alarms			Any Condition For Which Judgement Indicates Potential Degradation in the Level of Safety of the Plant			DELTA-TWO OR DELTA-ONE Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant		
			TU2 DESTRUCTIVE PHENOMENA Mode ALL			GU2 TOXIC/FLAMMABLE GASES Mode ALL								
			1. Seismic Activity Detected Per AOP-2562, Earthquake 2. Report by Plant Personnel of Tornado Striking Within Protected Area 3. Visible Damage to Structures or Equipment Within the Protected Area 4. Onsite Sustained Windspeed > 75 MPH 5. Explosion Within the Protected Area 6. Turbine Failure Causing Observable Casing Damage 7. Vessel or Vehicle Collision With Structures OR Equipment Required for Safe Shutdown 8. Flood Level > 19 Feet Mean Sea Level 9. Flooding in Areas Containing Safe Shutdown Equipment			1. Life Threatening Toxic Gases OR Flammable Gas Concentrations as Identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan" Affecting Normal Operation 2. Notification of a Near-Site Release That May Require Evacuation								
<div>AREAS OF CONCERN FOR SAFE SHUTDOWN</div> <div><div>Control Room Cable Vaults Turbine Building Penetration Areas RBCCW Rooms Diesel Generator Room Charging Pump Cubicles Switchyard</div><div>Switchgear Rooms Intake Structure Switchgear Area Coolant Tanks Area Containment DC Equipment and Battery Rooms Safety Injection Pump Rooms</div></div>														

2

Millstone

MP-26-EPI-FAP06-002  
Revision 000-01  
Page 2 of 3

NOTE: When two or more EALs apply, always choose the EAL of the highest incident classification, also always read from top to bottom in each category

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RS1	SPENT FUEL DAMAGE	Mode ALL	TS1	SECURITY EVENT	Mode ALL	GS1	CONTROL ROOM EVACUATION	Mode ALL	JS1	JUDGEMENT	Mode ALL	SITE AREA EMERGENCY		
<div>RA2</div> <div>SPENT FUEL ASSEMBLY DAMAGE</div> <div>Mode ALL</div> <div>Spent Fuel is Exposed from Open Vessel, Cavity, or SF Pool AND Spent Fuel Has Decayed ≥ 30 Days</div> <div>2. Fuel Handling Accident Causing Damage to Spent Fuel, Indicated by Fuel Building OR Containment Radiation Monitors Increasing</div>			<div>TA1</div> <div>SECURITY EVENT</div> <div>Mode ALL</div> <div>Intrusion Into Protected Area by a Hostile Force</div> <div>TA2</div> <div>DESTRUCTIVE PHENOMENA</div> <div>Mode ALL</div> <div>1. Seismic Event &gt; 0.09g ZPA</div> <div>2. Onsite Sustained Windspeed &gt; 90 MPH</div> <div>3. Visible Damage to Structures or Equipment AND Affecting Safe Shutdown</div> <div>4. Vessel or Vehicle Collision AND Affecting Safe Shutdown</div> <div>5. Missiles Affecting Safe Shutdown</div> <div>6. Flooding Affecting Safe Shutdown</div>			<div>GA1</div> <div>CONTROL ROOM EVACUATION</div> <div>Mode ALL</div> <div>Control Room Evacuation Initiated</div> <div>GA2</div> <div>FIRE/EXPLOSION</div> <div>Mode ALL</div> <div>Fire or Explosion Affecting Safe Shutdown Area AND Damage to Structures OR Equipment Indicated</div> <div>GA3</div> <div>TOXIC/FLAMMABLE GASES</div> <div>Mode ALL</div> <div>Life Threatening Toxic Gases OR Flammable Gas Concentrations as Identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan" Affecting Areas for Safe Shutdown</div>			<div>JA1</div> <div>JUDGEMENT</div> <div>Mode ALL</div> <div>Any Condition For Which Judgement Indicates That Safety Systems May Be Degraded AND Which Requires Emergency Response Organization Staffing</div>			<div>ALERT</div> <div>CHARLIE-ONE</div> <div>Events in Progress or Have Occurred Which Involve an Actual or Potential Substantial Degradation of the Level of Safety of the Plant</div>		
<div>RU1</div> <div>RAD MONITORS</div> <div>Mode ALL</div> <div>1. Uncontrolled Refuel Pool Water Level Decrease AND Rad Levels Require Evacuation of CTMT Or Spent Fuel Pool Area</div> <div>2. Unexpected Area Rad Monitor Reading Offscale High OR &gt; 1000 Times Normal Reading</div>			<div>TU1</div> <div>SECURITY EVENT</div> <div>Mode ALL</div> <div>Bomb Device Discovered in Protected Area</div> <div>TU2</div> <div>DESTRUCTIVE PHENOMENA</div> <div>Mode ALL</div> <div>1. Seismic Activity Detected Per AOP-2562. Earthquake</div> <div>2. Report by Plant Personnel of Tornado Striking Within Protected Area</div> <div>3. Visible Damage to Structures or Equipment Within the Protected Area</div> <div>4. Onsite Sustained Windspeed &gt; 75 MPH</div> <div>5. Explosion Within the Protected Area</div> <div>6. Turbine Failure Causing Observable Casing Damage</div> <div>7. Vessel or Vehicle Collision With Structures OR Equipment Required for Safe Shutdown</div> <div>8. Flood Level &gt; 19 Feet Mean Sea Level</div> <div>9. Flooding in Areas Containing Safe Shutdown Equipment</div>			<div>GU1</div> <div>FIRE</div> <div>Mode ALL</div> <div>Fire in Building OR Areas Adjacent to Areas Needed for Safe Shutdown NOT Extinguished Within 15 Minutes of Notification OR Verification of Control Room Alarms</div> <div>GU2</div> <div>TOXIC/FLAMMABLE GASES</div> <div>Mode ALL</div> <div>1. Life Threatening Toxic Gases OR Flammable Gas Concentrations as Identified in C-OP 200.5, "Oil, Hazardous Material, Hazardous Waste and Mixed Waste Contingency Plan" Affecting Normal Operation</div> <div>2. Notification of a Near-Site Release That May Require Evacuation</div>			<div>JU1</div> <div>JUDGEMENT</div> <div>Mode ALL</div> <div>Any Condition For Which Judgement Indicates Potential Degradation in the Level of Safety of the Plant</div>			<div>UNUSUAL EVENT</div> <div>DELTA-TWO</div> <div>OR</div> <div>DELTA-ONE</div> <div>Events in Progress or Have Occurred Which Indicate a Potential Degradation of the Level of Safety of the Plant</div>		
<div>AREAS OF CONCERN FOR SAFE SHUTDOWN</div> <div><div>Control Room</div><div>Cable Vaults</div><div>Turbine Building</div><div>Penetration Areas</div><div>RBCCW Rooms</div><div>Diesel Generator Room</div><div>Charging Pump Cubicles</div><div>Switchyard</div></div> <div><div>Switchgear Rooms</div><div>Intake Structure</div><div>Switchgear Area</div><div>Coolant Tanks Area</div><div>Containment</div><div>DC Equipment and Battery Rooms</div><div>Safety Injection Pump Rooms</div></div>												<div>2</div> <div>Millstone</div> <div>MP-26-EPI-FAP06-002</div> <div>Revision 000-01</div> <div>Page 2 of 3</div>		

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