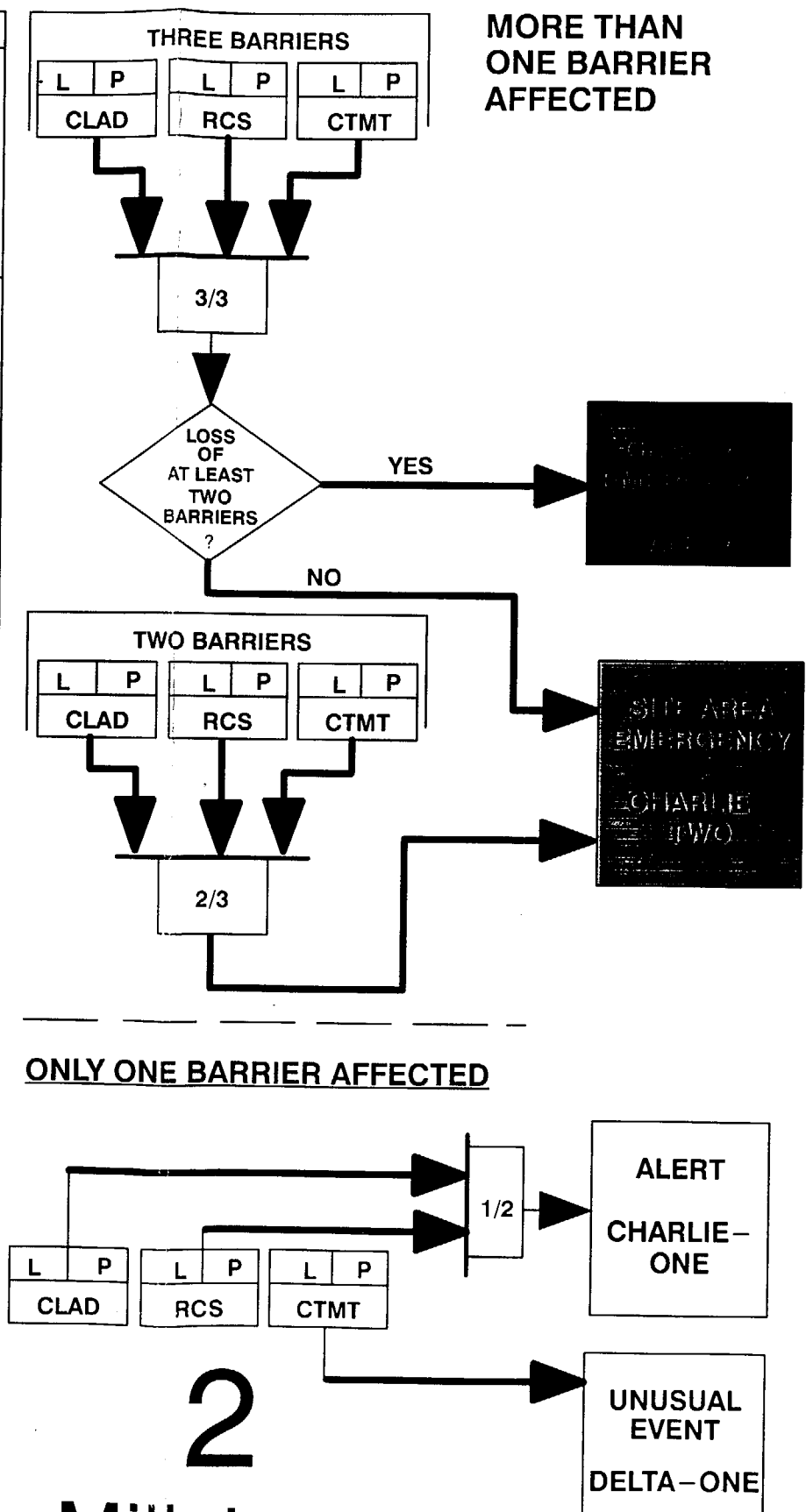


MILLSTONE 2 EMERGENCY ACTION LEVELS BARRIER FAILURE REFERENCE TABLE

IMMINENT - No Turnaround in Safety System Performance is Expected AND Escalation to General Emergency Conditions Will Occur Within 2 Hours

INDICATORS	FUEL CLAD BARRIER	RCS BARRIER	CTMT BARRIER
SAFETY FUNCTION STATUS/ FUNCTIONAL RECOVERY	<div>FCB1</div> <div>LOSS</div> <div>Not Applicable</div> <div>POTENTIAL LOSS</div> <div>P NO RCS Heat Removal Method Meets SFSC Criteria > 15 Minutes AND Shutdown Cooling System Is NOT In Service</div>	<div>RCB1</div> <div>LOSS</div> <div>Not Applicable</div> <div>POTENTIAL LOSS</div> <div>P Uncontrolled RCS Cooldown AND RCS Pressure-Temperature To the Left Of the PTS Limit 200°F Subcooling Maximum Curve</div> <div>P NO RCS Heat Removal Method Meets SFSC Criteria > 15 Minutes AND Shutdown Cooling System Is NOT In Service</div>	
CORE EXIT TC TEMPERATURES	<div>FCB2</div> <div>LOSS</div> <div>L Core Exit Thermocouple Readings > 1300 °F</div> <div>POTENTIAL LOSS</div> <div>P Core Exit Thermocouple Readings > 800 °F</div>	<div>RCB2</div> <div>LOSS</div> <div>L RCS Subcooling < 30°F</div> <div>POTENTIAL LOSS</div> <div>Not Applicable</div>	<div>CNB1</div> <div>LOSS</div> <div>Not Applicable</div> <div>POTENTIAL LOSS</div> <div>P Core Exit TC Temperature Readings >1300°F AND Do NOT Decrease Within 15 Minutes</div>
PRESSURE		<div>RCB3</div> <div>LOSS</div> <div>Not Applicable</div> <div>POTENTIAL LOSS</div> <div>P Uncontrolled RCS Pressure Decrease and Increasing Containment Radiation Monitors</div>	<div>CNB2</div> <div>LOSS</div> <div>L Rapid Unexplained CTMT Pressure Decrease Following Initial Increase</div> <div>L No CTMT Pressure Increase When Expectation Exists</div> <div>POTENTIAL LOSS</div> <div>P CTMT Pressure > 10 PSIG AND Increasing AND No Containment Spray Pump</div> <div>P CTMT H₂ Concentration ≥ 4%</div>
COOLANT LEAKAGE		<div>RCB4</div> <div>LOSS</div> <div>L Reactor Coolant Leak > CVCS Capacity AND Entry Into EOP-2534. Steam Generator Tube Rupture</div> <div>POTENTIAL LOSS</div> <div>P Reactor Coolant Leak > CVCS Capacity AND Entry Into EOP-2525. Standard Post Trip Actions</div> <div>P Reactor Coolant Leak ≤ CVCS Capacity AND Entry Into EOP-2534. Steam Generator Tube Rupture</div>	<div>CNB3</div> <div>LOSS</div> <div>L Primary to Secondary Leakage > Tech Spec Limits AND Unisolable Secondary Release to the Environment (Does NOT Include Normal Cycling of S/G Atmospheric Dump Valves or Safety Valves to Maintain Pressure/Temperature)</div> <div>L Failure of BOTH Isolation Valves AND a Pathway to the Environment Exists</div> <div>POTENTIAL LOSS</div> <div>P Entry Into EOP-2532, Loss of Primary Coolant, AND Leakage Exists Outside CTMT Requiring Local Isolation</div>
RADIATION	<div>FCB3</div> <div>LOSS</div> <div>L RM-8240/8241 Reading > 300 R/hr</div> <div>L RM-8240/8241 Reading > 5 R/hr Without RCS Release Inside CTMT</div> <div>L At Least 5% Fuel Clad Damage As Determined By Core Damage Estimate</div> <div>L Dose Rate at One Foot from Unpressurized RCS Sample ≥ 28 mR/hr/ml</div> <div>POTENTIAL LOSS</div> <div>Not Applicable</div>	<div>RCB5</div> <div>LOSS</div> <div>L RM-8240/8241 Reading > 5 R/hr Without Fuel Clad Barrier Loss</div> <div>POTENTIAL LOSS</div> <div>Not Applicable</div>	<div>CNB4</div> <div>LOSS</div> <div>L Offsite Dose Plume Rate ≥ 10⁻⁶ Times RM-8240/8241 Reading if Release is to CTMT</div> <div>POTENTIAL LOSS</div> <div>P RM-8240/8241 Reading > 1,200 R/hr</div> <div>P At Least 20% Fuel Clad Damage As Determined By Core Damage Estimate</div>
WATER LEVEL	<div>FCB4</div> <div>LOSS</div> <div>Not Applicable</div> <div>POTENTIAL LOSS</div> <div>P RVLMS Reading = 0%</div>		<div>CNB5</div> <div>LOSS</div> <div>L No CTMT Sump Level Increase When Expectation Exists</div> <div>POTENTIAL LOSS</div> <div>Not Applicable</div>
JUDGEMENT	<div>FCB5</div> <div>Any Condition For Which Judgement Indicates Loss or Potential Loss of Fuel Clad Barrier Due to:</div> <ul style="list-style-type: none"> Imminent Barrier Degradation Based On Current Safety System Performance Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate 	<div>RCB6</div> <div>Any Condition For Which Judgement Indicates Loss or Potential Loss of RCS Barrier Due to:</div> <ul style="list-style-type: none"> Imminent Barrier Degradation Based On Current Safety System Performance Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate 	<div>CNB6</div> <div>Any Condition For Which Judgement Indicates Loss or Potential Loss of CTMT Barrier Due to:</div> <ul style="list-style-type: none"> Imminent Barrier Degradation Based On Current Safety System Performance Degraded Fission Barrier Monitoring Capability Making Barrier Status Indeterminate



IMMEDIATE - No Turnaround in Safety System Performance is Expected AND Escalation to General Emergency Conditions Will Occur Within 2 Hours

