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**DAEC EMERGENCY PLANNING DEPARTMENT PROCEDURE  
TRANSMITTAL ACKNOWLEDGEMENT MEMO (TAM-97)**

To: NRC-NRR Document Control Desk  
US NRC  
Washington DC 20555

Re: Entire EPIP Document (Copy 28)

PSM Title: n/a

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Distribution Date: 10 / 27 / 2003  
Effective Date of Change: 11 / 03 / 2003  
Return by: 11 / 17 / 2003

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Please perform the following to your assigned manual. If you have any questions regarding this TAM please contact Don A. Johnson at 319-851-7872.

EPIP Table of Contents Revision	<b>REMOVE</b> Rev. 144	<b>INSERT</b> Rev. 145
EPIP EAL-04 (PWR: 21940)	Rev. 3	Rev. 4

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PERFORMED BY:

Print Name

Sign Name

Date

Please return to: K. Dunlap  
PSC/Emergency Planning  
3313 DAEC Rd.  
Palo, IA 52324

*To be completed by DAEC EP personnel only:*

Date TAM returned: \_\_\_\_\_

EPTools updated: \_\_\_\_\_

A045

Monday, October 27, 2003

NRC-NRR Document Control Desk  
US NRC  
Washington, DC 20555

To: NRC-NRR Document Control Desk  
From: DAEC Emergency Planning Department

Re: Description of changes to the following documents

EPIP            EAL-04            System Malfunction EAL Table

Move 'Operating Mode' up to just after the Initiating Condition.

SU1, SA1, SS1 AND SG1 have been changed to more closely follow the NEI 99-01, Rev. 4 wording. This provides consistency between the loss of power EALs.

Change EVENT TYPE from 'Inability to Maintain Shutdown Conditions' to 'Inability to Reach and Maintain Shutdown Conditions', to cover all events in this category.

Several EALs are having their Threshold values changed to use the Bases Document wording to provide consistency between the EAL Table and the EBD-S.

Delete the word 'valid' in the thresholds, since it is a standard operating procedure to validate indications prior to acting on them.

SA3 - Add the word 'SECONDARY' to 'CONTAINMENT CLOSURE' in the second threshold.

SS4 - Change the Initiating Condition to 'Complete Loss of Heat Removal' to agree with NEI 99-01, Rev. 4 wording. Delete Threshold #2 because Reactivity Control is addressed in EALs SA2, SS2 and SG2.

Please contact Paul Sullivan, Manager of Emergency Preparedness at DAEC, (319)851-7191, if you require further information.

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**EAI BLE**  
**SYSTEM FUNCTION**

EVENT TYPE	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
LOSS OF POWER	<p style="text-align: center;"><b>SU1</b></p> <p>Loss of All Offsite Power to Essential Buses for Greater Than 15 Minutes</p> <p style="text-align: center;">Operating Modes: ALL</p> <p>Unplanned loss of power to Startup (1X3) and Standby (1X4) transformers is expected to last for greater than 15 minutes.</p> <p style="text-align: center;">AND</p> <p>Emergency Buses 1A3 and 1A4 are powered by their respective Standby Diesel Generators.</p>	<p style="text-align: center;"><b>SA1</b></p> <p>Loss of All Offsite Power and Loss of All Onsite AC Power to Essential Buses During Cold Shutdown or Refuel Conditions</p> <p style="text-align: center;">Operating Modes: Cold S/D, Refuel, Defueled</p> <p>Loss of power to Startup (1X3) and Standby (1X4) transformers.</p> <p style="text-align: center;">AND</p> <p>Failure of A Diesel Generator (1G-31) and B Diesel Generator (1G-21) to supply power to emergency buses 1A3 and 1A4.</p> <p style="text-align: center;">AND</p> <p>Failure to restore power to at least one emergency bus, 1A3 or 1A4, within 15 minutes from the time of loss of both offsite and onsite AC power.</p>	<p style="text-align: center;"><b>SS1</b></p> <p>Loss of All Offsite Power and Loss of All Onsite AC Power to Essential Buses</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Loss of power to Startup (1X3) and Standby (1X4) transformers.</p> <p style="text-align: center;">AND</p> <p>Failure of A Diesel Generator (1G-31) and B Diesel Generator (1G-21) to supply power to emergency buses 1A3 and 1A4.</p> <p style="text-align: center;">AND</p> <p>Failure to restore power to at least one emergency bus, 1A3 or 1A4, within 15 minutes from the time of loss of both offsite and onsite AC power.</p>	<p style="text-align: center;"><b>SG1</b></p> <p>Prolonged Loss of All Offsite Power and Prolonged Loss of All Onsite AC Power</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Loss of power to Startup (1X3) and Standby (1X4) transformers.</p> <p style="text-align: center;">AND</p> <p>Failure of A Diesel Generator (1G-31) and B Diesel Generator (1G-21) to supply power to emergency buses 1A3 and 1A4.</p> <p style="text-align: center;">AND</p> <p><b>ANY ONE OF THE FOLLOWING:</b></p> <ul style="list-style-type: none"> <li>• Restoration of power to either Bus 1A3 or 1A4 is not likely within 4 hours.</li> <li>OR</li> <li>• RPV level is indeterminate.</li> <li>OR</li> <li>• RPV level is below +15 inches.</li> </ul>
	<p style="text-align: center;"><b>SU7</b></p> <p>Unplanned Loss of Required DC Power During Cold Shutdown or Refuel Mode For Greater Than 15 Minutes</p> <p style="text-align: center;">Operating Modes: Cold S/D, Refuel</p> <p>Unplanned Loss of Div 1 and Div 2 125 VDC buses based on bus voltage BELOW 105 VDC indicated.</p> <p style="text-align: center;">AND</p> <p>Failure to restore power to at least one required 125 VDC bus within 15 minutes from time of loss.</p>	<p style="text-align: center;"><b>SA5</b></p> <p>AC Power Capability to Essential Buses Reduced to a Single Power Source for Greater Than 15 Minutes Such That Any Additional Single Failure Would Result in Station Blackout</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Only one AC power source available to supply Bus 1A3 or Bus 1A4 for greater than 15 minutes AND if it is lost, a Station Blackout will occur.</p>	<p style="text-align: center;"><b>SS3</b></p> <p>Loss of All Vital DC Power</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Loss of Div 1 and Div 2 125 VDC buses based on bus voltage BELOW 105 VDC indicated.</p> <p style="text-align: center;">AND</p> <p>Failure to restore power to at least one required 125 VDC bus within 15 minutes from time of loss.</p>	
RPS FAILURE	None	<p style="text-align: center;"><b>SA2</b></p> <p>Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Scram Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Scram Was Successful</p> <p style="text-align: center;">Operating Modes: Run, Startup</p> <p>Auto Scram Failure</p> <p style="text-align: center;">AND</p> <p>Operator actions to reduce power are SUCCESSFUL as indicated by either:</p> <ul style="list-style-type: none"> <li>• ALL Rods Full-In,</li> <li>OR</li> <li>• Reactor Shutdown Under All Conditions Without Boron,</li> <li>OR</li> <li>• Reactor power below the APRM Downscale Alarm on ALL valid APRM Instruments</li> </ul>	<p style="text-align: center;"><b>SS2</b></p> <p>Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Scram Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Scram Was NOT Successful</p> <p style="text-align: center;">Operating Modes: Run, Startup</p> <p>In ATWS EOP</p> <p style="text-align: center;">AND</p> <p>Operator actions to reduce power are UNSUCCESSFUL as indicated by either:</p> <ul style="list-style-type: none"> <li>• Reactor power above the APRM Downscale Alarm on ANY valid APRM Instrument.</li> <li>OR</li> <li>• Boron Injection Initiation Temperature (BIT) Curve (EOP Graph 6) exceeded.</li> </ul>	<p style="text-align: center;"><b>SG2</b></p> <p>Failure of the Reactor Protection System to Complete an Automatic Scram and Manual Scram was NOT successful and There is Indication of an Extreme Challenge to the Ability to Cool the Core</p> <p style="text-align: center;">Operating Modes: Run, Startup</p> <p>In ATWS EOP</p> <p style="text-align: center;">AND</p> <p>Loss of adequate core cooling or decay heat Removal capability as indicated by either:</p> <ul style="list-style-type: none"> <li>• RPV level cannot be maintained above -25 inches.</li> <li>OR</li> <li>• HCL Curve (EOP Graph 4) exceeded.</li> </ul>
INABILITY TO REACH OR MAINTAIN SHUTDOWN CONDITIONS	<p style="text-align: center;"><b>SU2</b></p> <p>Inability to Reach Required Shutdown Within Technical Specification Limits</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Plant NOT brought to required mode within applicable LCO Action Statement Time.</p>	<p style="text-align: center;"><b>SA3</b></p> <p>Inability to Maintain Plant in Cold Shutdown</p> <p style="text-align: center;">Operating Modes: Cold S/D, Refuel</p> <p>Loss of decay heat removal systems required to maintain Cold Shutdown.</p> <p style="text-align: center;">AND</p> <p>With SECONDARY CONTAINMENT CLOSURE not established, temperature conditions exist that either:</p> <ul style="list-style-type: none"> <li>• Cause reactor coolant temperature to exceed the Technical Specification limit of 212°F.</li> <li>OR</li> <li>• Result in an uncontrolled temperature rise approaching 212°F.</li> </ul>	<p style="text-align: center;"><b>SS4</b></p> <p>Complete Loss of Heat Removal Capability</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>EOP Graph 4 Heat Capacity Limit is exceeded</p>	See Fission Barrier Table
	<p style="text-align: center;"><b>SS5</b></p> <p>Loss of Water Level in the Reactor Vessel That Has or Will Uncover Fuel in the Reactor Vessel</p> <p style="text-align: center;">Operating Modes: Cold S/D, Refuel</p> <p>RPV level below 15 inches, indicating that the core is or will be uncovered.</p> <p style="text-align: center;">AND</p> <p>Loss of all decay heat removal.</p>			
INSTRUMENTATION / COMMUNICATION	<p style="text-align: center;"><b>SU3</b></p> <p>Unplanned Loss of Most or All Safety System Annunciation or Indication in the Control Room for Greater Than 15 Minutes</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Unplanned loss of most or all 1C03, 1C04 and 1C05 annunciators or indicators associated with Critical Safety Functions for greater than 15 minutes.</p> <p style="text-align: center;">AND</p> <p>Compensatory non-alarming indications are available.</p>	<p style="text-align: center;"><b>SA4</b></p> <p>Unplanned Loss of Most or All Safety System Annunciation or Indication in Control Room With Either (1) a Significant Transient in Progress, or (2) Compensatory Non-Alarming Indicators Unavailable</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Unplanned loss of most or all 1C03, 1C04 and 1C05 Annunciators or Indicators associated with Critical Safety Functions for greater than 15 minutes.</p> <p style="text-align: center;">AND</p> <p>Either of the following conditions exist:</p> <ul style="list-style-type: none"> <li>• A significant plant transient in progress.</li> <li>OR</li> <li>• Loss of compensatory non-alarming indications.</li> </ul>	<p style="text-align: center;"><b>SS6</b></p> <p>Inability to Monitor a Significant Transient in Progress</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Significant transient in progress and ALL of the following:</p> <ul style="list-style-type: none"> <li>• Loss of most or all annunciators on Panels 1C03, 1C04 and 1C05.</li> <li>AND</li> <li>• Loss of compensatory non-alarming indications.</li> </ul> <p style="text-align: center;">AND</p> <p>Loss of indicators needed to monitor criticality, OR core heat removal, OR Fission Product Barrier status.</p>	See Fission Barrier Table
	<p style="text-align: center;"><b>SU6</b></p> <p>Unplanned Loss of All Onsite or Offsite Communications Capabilities</p> <p style="text-align: center;">Operating Modes: ALL</p> <p>Loss of ALL of the following onsite communication capabilities affecting the ability to perform routine operation:</p> <ul style="list-style-type: none"> <li>• Plant Operations Radio System</li> <li>• In-Plant Telephones</li> <li>• Sound Power Telephones</li> <li>• Plant Paging System</li> </ul> <p style="text-align: center;">OR</p> <p>Loss of ALL of the following offsite communications capability:</p> <ul style="list-style-type: none"> <li>• All telephone lines (commercial)</li> <li>• Microwave Phone System</li> <li>• FTS-2001 Phone System (ENS &amp; HPN)</li> <li>• Cellular Phones</li> <li>• Police Radio</li> <li>• Rad Survey Radio system</li> </ul>			
COOLANT ACTIVITY	<p style="text-align: center;"><b>SU4</b></p> <p>Fuel Clad Degradation</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Pretreat radiation monitor (RM-4104) reading ABOVE 4E+3 mr/hr.</p> <p style="text-align: center;">OR</p> <p>Reactor Coolant sample indicating ABOVE 1.2 µCi/ml DOSE EQUIVALENT I-131.</p>	See Fission Barrier Table	See Fission Barrier Table	See Fission Barrier Table
COOLANT LEAKAGE	<p style="text-align: center;"><b>SU5</b></p> <p>RCS Leakage</p> <p style="text-align: center;">Operating Modes: Run, Startup, Hot S/D</p> <p>Unidentified or pressure boundary leakage ABOVE 10 GPM.</p> <p style="text-align: center;">OR</p> <p>Identified leakage ABOVE 25 GPM.</p> <p style="text-align: center;">OR</p> <p>Indication of Main Steamline Break</p>	See Fission Barrier Table	See Fission Barrier Table	See Fission Barrier Table