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## DAEC EMERGENCY PLANNING DEPARTMENT PROCEDURE TRANSMITTAL ACKNOWLEDGEMENT MEMO (TAM-82)

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 / 01 / 2003  
Effective Date of Change: 10 / 08 / 2003  
Return by: 10 / 22 / 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.

	REMOVE	INSERT
EPIP Table of Contents Revision	Rev. 141	Rev. 142
EPIP EAL-02 (PWR: 21944)	Rev. 3	Rev. 4
EPIP EAL-03 (PWR: 22727)	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

Wednesday, October 1, 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-02            Fission Barrier EAL Table**

- Overall, changes were completed to ensure the EAL Table matches the EAL Bases Document.
- The term 'valid' was removed from several Threshold values. It is plant policy to validate readings prior to making decisions from them.
- Specific instrument numbers have been added to assist the Decision Makers in making **TIMELY** and **ACCURATE** EAL declarations.
- References to fuel damage assessment have the site-specific procedure (PASAP 7.2) added.
- Table foot notes have been rearranged to keep related information together.

**EPIP            EAL-03            Hazards and Other Conditions Affecting Plant Safety EAL Table**

Remove reference to ISFSI in HA4. After discussions with Security, it was decided that security events at the ISFSI do not require an ALERT level classification. The reference to ISFSI was erroneously placed in the EAL on the last revision.

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

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	Rev. 142
<b>INDEX</b>	PAGE 1 of 7

<b>Procedure</b>	<b>Title</b>	<b>Revision Number</b>	<b>Date</b>
1.1	Determination of Emergency Action Levels	20	8/5/03
1.2	Notification	28	4/4/03
1.3	Plant Assembly and Site Evacuation	9	09/12/01
1.4	Release of Emergency-Related Information	4	09/04/02
1.5	Activation and Operation of the EOF	4	6/11/03
2.1	Activation and Operation of the OSC	13	09/12/01
2.2	Activation and Operation of the TSC	23	10/23/02
2.3	Operation of the FTS-2001 Phone Network	6	09/04/02
2.4	Activation and Operation of the ORAA	8	09/12/01
2.5	Control Room Emergency Response Operation	14	10/15/01
2.6	Activation and Operation of the ORAL	9	12/30/02
2.7	Activation and Operation of the ODEF	6	10/15/01
2.8	Security Threat	2	7/30/03
3.1	In-Plant Radiological Monitoring	12	9/2/02
3.2	Field Radiological Monitoring	13	9/2/02
3.3	Dose Assessment and Protective Action	19	6/25/03
4.2	First Aid, Decontamination and Medical Support	7	8/23/02
4.3	Rescue and Emergency Repair Work	11	8/23/02
4.5	Administration of Potassium Iodide (KI)	7	2/10/03
5.2	Recovery and Re-entry	9	10/15/01

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	Rev. 142
<b>INDEX</b>	PAGE 3 of 7

EOF – 14	EOF MIDAS Operator Checklist	Rev. 1	EPIP 1.5, 3.3
EOF – 15	Radiological Data Plotter Checklist	Rev. 0	EPIP 1.5, 3.3
EOF – 16	Radiological Assessment Coordinator Checklist	Rev. 1	EPIP 1.5, 3.3
EOF – 17	EOF Security Access Clerk Checklist	Rev. 2	EPIP 1.5
EOF – 18	EOF Staffing Accountability Roster	Rev. 3	EPIP 1.5
EOF – 19	Drill Announcement Message	Rev. 0	EPIP 1.4, 1.5
EOF – 20	Emergency Announcement Message	Rev. 1	EPIP 1.4, 1.5
EOF – 21	Personnel Access Log	Rev. 1	EPIP 1.4, 1.5
EOF – 22	Registration Form	Rev. 0	EPIP 14, 1.5
EOF – 23	Security Post Log	Rev. 2	EPIP 1.4, 1.5
EOF – 24	First Floor Security Post Description	Rev. 2	EPIP 1.4, 1.5
EOF – 25	Fourteenth Floor Security Post Description	Rev. 11	EPIP 1.5
EOF – 27	Status Update Message – EOF Communicator	Rev. 0	EPIP 1.5
EOF – 28	Verbal Closeout Summary	Rev. 0	EPIP 1.5
EOP – 29	Written Closeout Summary	Rev. 0	EPIP 1.5
EOF – 30	Status Board	Rev. 1	EPIP 1.5
EOF – 31	Access B adge Example	Rev. 0	EPIP 1.5
EOF – 32	EOF Staff Response	Rev. 3	EPIP .15
EOF – 33	Recovery Issues	Rev. 0	EPIP 5.2
EOF – 34	EOF Activities	Rev. 0	EPIP 5.2
EOF – 35	Recovery Phase Plan Outline Guidance	Rev. 0	EPIP .52
EOF – 36	RE-Entry Briefing Guide	Rev. 0	EPIP 5.2
EOF – 37	RE-Entry Debriefing Guide	Rev. 0	EPIP 5.2
EOF – 38	EOF Messenger Checklist	Rev. 1	EPIP 1.5
ERO – 01	ERO Position Equivalency Table	Rev. 0	EPIP 1.5
JPIC – 01	JPIC Manager Checklist	Rev. 4	EPIP 1.4
JPIC – 03	Alliant Spokesperson Checklist	Rev. 3	EPIP 1.4

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	Rev. 142
<b>INDEX</b>	PAGE 4 of 7

JPIC – 04	Technical Liaison Checklist	Rev. 4	EPIP 1.4
JPIC – 05	Sequence of Events	Rev. 0	EPIP 1.4
JPIC – 06	Public Information Officer Support Checklist	Rev. 5	EPIP 1.4
JPIC – 07	Logistics Coordinator Checklist	Rev. 4	EPIP 1.4
JPIC – 08	Logistics Support Checklist	Rev. 4	EPIP 1.4
JPIC – 09	Audiovisual Support Checklist	Rev. 4	EPIP 1.4
JPIC – 11	Rumor Control Coordinator I Checklist	Rev. 3	EPIP 1.4
JPIC – 12	Rumor Control Event Summary Log	Rev. 1	EPIP 1.4
JPIC – 13	Rumor Control Coordinator II Checklist	Rev. 2	EPIP 1.4
JPIC – 14	Public Rumor Control Checklist	Rev. 2	EPIP 1.4
JPIC – 15	News Media Rumor Control Checklist	Rev. 4	EPIP 1.4
JPIC – 16	Assistant JPIC Manager Checklist	Rev. 3	EPIP 1.4
JPIC – 17	JPIC Security Access Control Checklist	Rev. 3	EPIP 1.4
JPIC – 18	Sixth Floor Security Post Description	Rev. 2	EPIP 1.4
JPIC – 19	JPIC Distribution List	Rev. 2	EPIP 1.4
NOTE-01	ERO Notification –Phone System Callout	Rev. 5	EPIP 1.2
NOTE-02	ERO Notification – Alphanumeric Paging System Callout	Rev. 3	EPIP 1.2
NOTE-03	Event Notification Worksheet	Rev. 1	EPIP 1.2
NOTE-04	Plant Assembly Notification	Rev. 2	EPIP 1.2
NOTE-05	Emergency Action Level Notification	Rev. 7	EPIP 1.2
NOTE-06	Plant Page for Emergency Classification Changes	Rev. 1	EPIP 1.2
NOTE-07	Basic Notification Flowpath	Rev. 1	EPIP 1.2
ODEF-01	ODEF Decontamination Waiting Area	Rev. 0	EPIP 2.7
ODEF-02	Floor Plan for ORAL/ODEF	Rev. 0	EPIP 2.7
ODEF-03	Travel Route to ORAL/ODEF	Rev. 0	EPIP 2.7
ODEF-04	12 <sup>th</sup> Avenue Entrance to ORAL/ODEF	Rev. 0	EPIP 2.7
ORAA-01	Offsite Relocation and Assembly Area Supervisor's	Rev. 1	EPIP 2.4

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	Rev. 142
<b>INDEX</b>	PAGE 5 of 7

	Checklist		
ORAA-02	Health Physics Support for the Offsite Relocation and Assembly Area	Rev. 0	EPIP 2.4
ORAA-03	Security Support for the Offsite Relocation and Assembly Area	Rev. 0	EPIP 2.4
ORAA-04	Offsite Relocation and Assembly Area	Rev. 0	EPIP 2.4
ORAA-05	Offsite Relocation and Assembly Area Parking and Vehicle Monitoring	Rev. 0	EPIP 2.4
OSC-01	OSC Layout	Rev. 0	EPIP 2.1
OSC-02	OSC Organization Chart	Rev. 0	EPIP 2.1
OSC-03	Minimum Staffing Level	Rev. 1	EPIP 2.1
OSC-04	Recommended Log Entry Topics	Rev. 0	EPIP 2.1
OSC-05	Emergency Event Log Sheet	Rev. 0	EPIP 2.1
OSC-06	Personal Statement Concerning Incident	Rev. 0	EPIP 2.1
OSC-07	Emergency Exposure Tracking Log	Rev. 0	EPIP 2.1
OSC-08	OSC Supervisor Checklist	Rev. 0	EPIP 2.1
OSC-09	Health Physics Supervisor Checklist	Rev. 0	EPIP 2.1
OSC-10	Electrical, Mechanical, I&C Maintenance Supervisor Checklist	Rev. 0	EPIP 2.1
OSC-11	Emergency Assignment Staffing Board Duties	Rev. 0	EPIP 2.1
OSC-12	External Exposure Limits	Rev. 0	EPIP 4.3
OSC-13	Guidance on Dose Limits for Workers Performing Emergency Services	Rev. 0	EPIP 4.3
OSC-14	Guidelines Regarding Selection of Volunteers	Rev. 0	EPIP 4.3
OSC-15	OSC Repair Team Work Order	Rev. 0	EPIP 4.3
OSC-16	Repair Team Datasheet Flowpath	Rev. 0	EPIP 4.3
PAR – 01	PAR Decision Making – Recommendations	Rev. 0	EPIP 3.3
PAR – 02	PAR Decision Making – Flowchart	Rev. 0	EPIP 3.3
PASE-02	Onsite Assembly Locations	Rev. 2	EPIP 1.3

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	<b>Rev. 142</b>
<b>INDEX</b>	<b>PAGE 6 of 7</b>

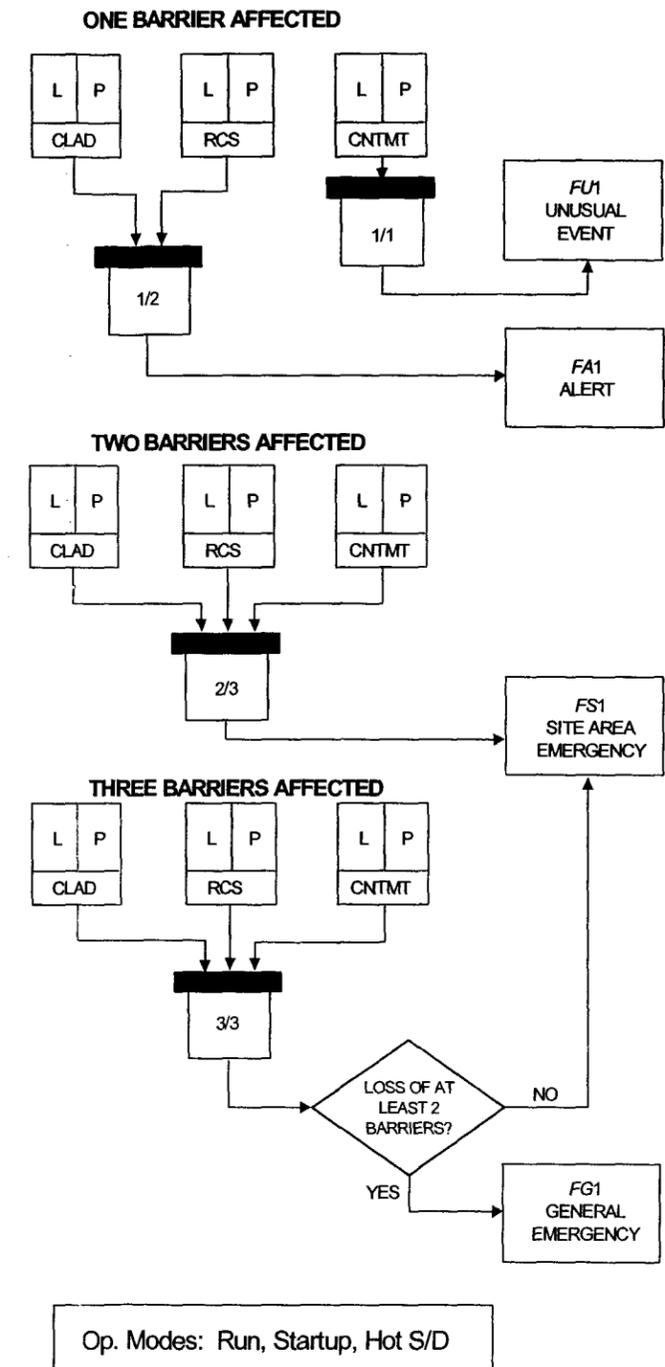
PASE-05	Site Evacuation Routes	Rev. 1	EPIP 1.3
SAM-01	EOP-SAG Transition Checklist	Rev. 0	EPIP 2.2
TSC-01	Emergency Coordinator Checklist	Rev. 3	EPIP 2.2
TSC-02	TSC Supervisor Checklist	Rev. 3	EPIP 2.2
TSC-03	Site Radiation Protection Coordinator Checklist	Rev. 1	EPIP 2.2
TSC-04	Technical & Engineering Supervisor Checklist	Rev. 3	EPIP 2.2
TSC-05	Quality Assurance Checklist	Rev. 1	EPIP 2.2
TSC-06	Security & Support Supervisor Checklist	Rev. 1	EPIP 2.2
TSC-07	Administrative Supervisor Checklist	Rev. 1	EPIP 2.2
TSC-08	Material Management Supervisor Checklist	Rev. 1	EPIP 2.2
TSC-09	TSC-CR-OSC Communicator Checklist	Rev. 2	EPIP 2.2
TSC-10	CR-TSC-OSC Communicator Checklist	Rev. 3	EPIP 2.2
TSC-11	TSC-EOF-JPIC Communicator Checklist	Rev. 1	EPIP 2.2
TSC-12	ENS Communicator Checklist	Rev. 2	EPIP 2.2
TSC-13	HPN Communicator Checklist	Rev. 1	EPIP 2.2
TSC-14	TSC/OSC Operations Liaison Checklist	Rev. 2	EPIP 2.2
TSC-15	Radiological Support Staff Checklist	Rev. 1	EPIP 2.2
TSC-16	Radio Operator – Offsite Checklist	Rev. 0	EPIP 2.2
TSC-17	Radio Operator – Onsite Checklist	Rev. 0	EPIP 2.2
TSC-18	TSC MIDAS Operator Checklist	Rev. 0	EPIP 2.2
TSC-19	Technical & Analysis Engineer Checklist	Rev. 1	EPIP 2.2
TSC-20	TSC Operations Supervisor	Rev. 2	EPIP 2.2
TSC-21	Electrical Engineer Checklist	Rev. 0	EPIP 2.2
TSC-22	I & C Engineer Checklist	Rev. 0	EPIP 2.2
TSC-23	Mechanical Engineer Checklist	Rev. 0	EPIP 2.2
TSC-24	Reactor Engineer Checklist	Rev. 2	EPIP 2.2
TSC-25	SPDS Operator Checklist	Rev. 1	EPIP 2.2

<b>EMERGENCY PLAN IMPLEMENTING PROCEDURES</b>	<b>Rev. 142</b>
<b>INDEX</b>	<b>PAGE 7 of 7</b>

TSC-26	Information Services Representative Checklist	Rev. 2	EPIP 2.2
TSC-27	Fire Marshall Checklist	Rev. 1	EPIP 2.2
TSC-28	NRC Roles During A Nuclear Power Plant Emergency Checklist	Rev. 0	EPIP 2.2
TSC-29	TSC Minimum Staffing Level	Rev. 2	EPIP 2.2
TSC-30	Emergency Action Request Log	Rev. 0	EPIP 2.2
TSC-31	Radio Operator Log	Rev. 0	EPIP 2.2
TSC-32	Status Board Recorder	Rev. 1	EPIP 2.2
TSC-33	Typical Organization of the NRC Site Team	Rev. 0	EPIP 2.2
TSC-34	TSC Organization Chart	Rev. 3	EPIP 2.2
TSC-35	Assignment Form	Rev. 0	EPIP 5.2
TSC-36	Deactivation Report	Rev. 0	EPIP 5.2
TSC-37	Plant Operations Status	Rev. 0	EPIP 5.2
TSC-38	TSC/Control Room/OSC Activities	Rev. 0	EPIP 5.2
TSC-39	TSC Clerical Checklist	Rev. 0	EPIP 2.2
TSC-40	ARM Locations	Rev. 0	EPIP 3.1/4.3
TSC-41	PASS Capabilities	Rev. 0	EPIP 3.1
TSC-42	On-Site Map	Rev. 0	EPIP 3.2
TSC-43	ESB Logon Instructions (TSC/CR/EOF)	Rev. 0	EPIP 2.2

**EAL TABLE**  
**FISSION BARRIER**

INDICATORS	FUEL CLAD BARRIER	RCS BARRIER	PRIMARY CONTAINMENT BARRIER
<b>RADIATION / CORE DAMAGE</b>	<p><b>Loss</b></p> <p><b>L</b> Fuel damage assessment (PASAP 7.2) indicates at least 5% fuel clad damage</p> <p><b>OR</b></p> <p><b>L</b> Drywell Area Hi Range Rad Monitor, RIM-9184A or B reading above 7E+2 R/hr</p> <p><b>OR</b></p> <p><b>L</b> Torus Area Hi Range Rad Monitor, RIM-9185A or B reading above 3E+1 R/hr</p> <p><b>OR</b></p> <p><b>L</b> Coolant activity above 300µCi/gm DOSE EQUIVALENT I-131</p> <hr/> <p><b>Potential Loss - None</b></p>	<p><b>Loss</b></p> <p><b>L</b> Drywell Area Hi Range Rad Monitor, RIM-9184A or B reading above 5 R/hr after reactor shutdown</p> <hr/> <p><b>Potential Loss - None</b></p>	<p><b>Loss - None</b></p> <hr/> <p><b>Potential Loss</b></p> <p><b>P</b> Drywell Area Hi Range Rad Monitor, RIM-9184A or B reading above 3E+3 R/hr</p> <p><b>OR</b></p> <p><b>P</b> Torus Area Hi Range Rad Monitor, RIM-9185A or B reading above 1E+2 R/hr</p> <p><b>OR</b></p> <p><b>P</b> Fuel damage assessment (PASAP 7.2) indicates at least 20% fuel clad damage</p>
<b>RPV LEVEL</b>	<p><b>Loss</b></p> <p><b>L</b> RPV Level below -25 Inches that cannot be restored</p> <hr/> <p><b>Potential Loss</b></p> <p><b>P</b> RPV Level below 15 inches that cannot be restored</p>	<p><b>Loss</b></p> <p><b>L</b> RPV Level below 15 inches</p> <hr/> <p><b>Potential Loss - None</b></p>	<p><b>Loss - None</b></p> <hr/> <p><b>Potential Loss</b></p> <p><b>P</b> RPV Level below -39 inches and no injection source is available</p>
<b>LEAKAGE</b>	<b>None</b>	<p><b>Loss - None</b></p> <hr/> <p><b>Potential Loss</b></p> <p><b>P</b> RCS Leakage is above 50 GPM</p> <p><b>OR</b></p> <p><b>P</b> Unisolable primary system leakage outside the drywell as indicated by area temps or ARMs exceeding the Max Normal Limits per EOP 3, Table 6.</p>	<p><b>Loss</b></p> <p><b>L</b> Failure of both valves in any one line to close and a downstream pathway to the environment exists</p> <p><b>OR</b></p> <p><b>L</b> Unisolable primary system leakage outside the drywell as indicated by area temps or ARMs exceeding the Max Safe Limits per EOP 3, Table 6, when Containment Isolation is required.</p> <p><b>OR</b></p> <p><b>L</b> Primary containment venting in progress per EOPs</p> <hr/> <p><b>Potential Loss - None</b></p>
<b>PRIMARY CONTAINMENT ATMOSPHERE</b>	<b>None</b>	<p><b>Loss</b></p> <p><b>L</b> Drywell pressure above 2 psig and not caused by a loss of DW Cooling</p> <hr/> <p><b>Potential Loss - None</b></p>	<p><b>Loss</b></p> <p><b>L</b> Rapid unexplained decrease following initial increase in pressure</p> <p><b>OR</b></p> <p><b>L</b> Drywell pressure response not consistent with LOCA conditions</p> <hr/> <p><b>Potential Loss</b></p> <p><b>P</b> Torus pressure reaches 53 psig</p> <p><b>OR</b></p> <p><b>P</b> Drywell or torus H<sub>2</sub> CANNOT be determined to be below 6% AND Drywell or torus O<sub>2</sub> CANNOT be determined to be below 5%</p>
<b>EC/OSM JUDGEMENT</b>	<p>Any condition which in the EC/OSM's judgement indicates loss or potential loss of the fuel clad barrier due to Imminent barrier degradation OR the barrier may be considered lost or potentially lost due to the inability to monitor the barrier.</p> <p><b>L</b> Loss    <b>OR</b>    <b>P</b> Potential Loss</p>	<p>Any condition which in the EC/OSM's judgement indicates loss or potential loss of the RCS barrier due to Imminent barrier degradation OR the barrier may be considered lost or potentially lost due to the inability to monitor the barrier.</p> <p><b>L</b> Loss    <b>OR</b>    <b>P</b> Potential Loss</p>	<p>Any condition which in the EC/OSM's judgement indicates loss or potential loss of the primary containment barrier due to Imminent barrier degradation OR the barrier may be considered lost or potentially lost due to the inability to monitor the barrier.</p> <p><b>L</b> Loss    <b>OR</b>    <b>P</b> Potential Loss</p>



**IMMINENT** - No turnaround in safety system performance is expected and escalation to General Emergency conditions is expected within 2 hours.

**L** = Loss (of a fission product barrier) - A severe challenge to a fission product barrier exists such that the barrier is considered incapable of performing its safety function.

**P** = Potential Loss (of a fission product barrier) - A challenge to a fission product barrier exists such that the barrier is considered degraded in its ability to perform its safety function.

**NOTE:** Step 1; for all indicators, move from left to right across table, marking all applicable "L's" and "P's" for each barrier, based on plant indications. Then, step 2, transcribe all "L's" and "P's" marked on Barrier Table to the Logic Diagram (at right). "L's" and "P's" should be marked for each affected barrier (working top to bottom) on the flowchart. Step 3, an "L" or "P" marked for each associated barrier will constitute a Logic I input. When coincidence is met, then the EAL can be declared.

**HAZARDS and OTHER CONDITIONS AFFECTING PLANT SAFETY**

EVENT TYPE	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY																																																																
<b>NATURAL DISASTERS</b>	<p><b>HU1</b> Natural and Destructive Phenomena Affecting the Protected Area</p> <p>Earthquake detected per AOP 901, Earthquake. OR Report of tornado touching down within plant protected area or within switchyard. OR Assessment by the control room that an event has occurred. OR Vehicle crash into plant structures or systems within protected area boundary. OR Report of an unanticipated explosion within the protected area boundary resulting in visible damage to structures or equipment. OR Turbine failure resulting in casing penetration or damage to turbine or generator seals. OR River level above 757 feet. OR Any area water level above Max Normal Operating Limit. OR River level below 725 feet 6 inches.</p> <p>Op. Modes: ALL</p>	<p><b>HA1</b> Natural and Destructive Phenomena Affecting the Plant Vital Area</p> <p>Earthquake peak horizontal acceleration above ± 0.06 Gravity. OR Report of tornado striking plant vital area. OR Report to control room of damage affecting safe shutdown areas. OR Vehicle crash affecting plant vital areas. OR Sustained wind speed above 95 MPH. OR Missiles affecting safe shutdown areas. OR River level above 767 feet. OR Water level above Max Safe Operating Limit in 2 or more areas AND Reactor shutdown is required. OR River level below 724 feet 6 inches.</p> <p>Op. Modes: ALL</p>	<table border="1"> <thead> <tr> <th colspan="2">Safe Shutdown Areas</th> </tr> <tr> <th>Category</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>Electrical Power</td> <td>Switchyard, 1G31 DG and Day Tank Rooms, 1G21 DG and Day Tank Rooms, Battery Rooms, Essential Switchgear Rooms, Cable Spreading Room</td> </tr> <tr> <td>Heat Sink/ Coolant Supply</td> <td>Torus Room, Intake Structure, Pumphouse</td> </tr> <tr> <td>Containment</td> <td>Drywell, Torus</td> </tr> <tr> <td>Emergency Systems</td> <td>NE, NW, SE Corner Rooms, HPCI Room, RCIC Room, RHR Valve Room, North CRD Area, South CRD Area</td> </tr> <tr> <td>Other</td> <td>Control Building, Remote Shutdown Panel 1C388 Area, Panel 1C56 Area, SBTG Room</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">Water Level Operating Limits</th> </tr> <tr> <th>Room Area</th> <th>Indicator</th> <th>Max Normal Operating Limit (Inches)</th> <th>Max Safe Operating Limit (Inches)</th> </tr> </thead> <tbody> <tr> <td>HPCI Room Area</td> <td>LI 3768</td> <td>2</td> <td>6</td> </tr> <tr> <td>RCIC Room Area</td> <td>LI 3769</td> <td>3</td> <td>6</td> </tr> <tr> <td>A RHR Corner Room SE Area</td> <td>LI 3770</td> <td>2</td> <td>10</td> </tr> <tr> <td>B RHR Corner Room NW Area</td> <td>LI 3771</td> <td>2</td> <td>10</td> </tr> <tr> <td>Torus Area</td> <td>LI 3772</td> <td>2</td> <td>12</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Systems &amp; Equipment of Concern</th> </tr> </thead> <tbody> <tr> <td>•</td> <td>Reactivity Control</td> </tr> <tr> <td>•</td> <td>Containment (Drywell/Torus)</td> </tr> <tr> <td>•</td> <td>RHR/Core Spray/SRV's</td> </tr> <tr> <td>•</td> <td>HPCI/RCIC</td> </tr> <tr> <td>•</td> <td>RHR/SW/River Water/ESW</td> </tr> <tr> <td>•</td> <td>Onsite AC Power/EDG's</td> </tr> <tr> <td>•</td> <td>Offsite AC Power</td> </tr> <tr> <td>•</td> <td>Instrument AC</td> </tr> <tr> <td>•</td> <td>DC Power</td> </tr> <tr> <td>•</td> <td>Remote Shutdown Capability</td> </tr> </tbody> </table>		Safe Shutdown Areas		Category	Area	Electrical Power	Switchyard, 1G31 DG and Day Tank Rooms, 1G21 DG and Day Tank Rooms, Battery Rooms, Essential Switchgear Rooms, Cable Spreading Room	Heat Sink/ Coolant Supply	Torus Room, Intake Structure, Pumphouse	Containment	Drywell, Torus	Emergency Systems	NE, NW, SE Corner Rooms, HPCI Room, RCIC Room, RHR Valve Room, North CRD Area, South CRD Area	Other	Control Building, Remote Shutdown Panel 1C388 Area, Panel 1C56 Area, SBTG Room	Water Level Operating Limits				Room Area	Indicator	Max Normal Operating Limit (Inches)	Max Safe Operating Limit (Inches)	HPCI Room Area	LI 3768	2	6	RCIC Room Area	LI 3769	3	6	A RHR Corner Room SE Area	LI 3770	2	10	B RHR Corner Room NW Area	LI 3771	2	10	Torus Area	LI 3772	2	12	Systems & Equipment of Concern		•	Reactivity Control	•	Containment (Drywell/Torus)	•	RHR/Core Spray/SRV's	•	HPCI/RCIC	•	RHR/SW/River Water/ESW	•	Onsite AC Power/EDG's	•	Offsite AC Power	•	Instrument AC	•	DC Power	•	Remote Shutdown Capability
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•	Offsite AC Power																																																																			
•	Instrument AC																																																																			
•	DC Power																																																																			
•	Remote Shutdown Capability																																																																			
<b>FIRE</b>	<p><b>HU2</b> Fire Within PROTECTED AREA Not Extinguished Within 15 Minutes of Detection</p> <p>Fire in buildings or areas contiguous to any of the following areas not extinguished within 15 minutes of control room notification or verification of a control room alarm:</p> <ul style="list-style-type: none"> <li>Reactor, Turbine, Control, Admin/Security</li> <li>Intake structure</li> <li>Pump house</li> </ul> <p>Op. Modes: ALL</p>	<p><b>HA2</b> Fire Affecting the Operability of Plant Safety Systems Required to Establish or Maintain Safe Shutdown</p> <p>Fire or explosion in any of the following areas:</p> <ul style="list-style-type: none"> <li>Reactor, Turbine, Control, Admin/Security</li> <li>Intake structure</li> <li>Pump house</li> </ul> <p>AND</p> <p>Affected system parameter indications show degraded performance or plant personnel report visible damage to permanent structures or equipment within the specified area.</p> <p>Op. Modes: ALL</p>																																																																		
<b>OTHER HAZARDS AND FAILURES</b>	<p><b>HU3</b> Release of Toxic or Flammable Gases Deemed Detrimental to Safe Operation of the Plant</p> <p>Toxic or flammable gas release affecting normal operation. OR Report by local, county or State official for potential evacuation of site personnel based on offsite event.</p> <p>Op. Modes: ALL</p>	<p><b>HA3</b> Release of Toxic or Flammable Gases Within a Facility Structure Which Jeopardizes Operation of Systems Required to Maintain Safe Operations or to Establish or Maintain Cold Shutdown</p> <p>Toxic or flammable gas making safe shutdown areas uninhabitable or inaccessible.</p> <p>Op. Modes: ALL</p>																																																																		
<b>SECURITY</b>	<p><b>HU4</b> Confirmed Security Event Which Indicates a Potential Degradation in the Level of Safety of the Plant</p> <p>Suspected sabotage device discovered within plant Protected Area. OR Suspected sabotage device discovered outside the Protected Area in the plant switchyard or ISFSI. OR Confirmed tampering with safety related equipment. OR A hostage situation that disrupts normal plant or ISFSI operations. OR Civil disturbance OR strike which disrupts normal plant or ISFSI operations. OR Internal disturbance that is not short lived or that is not a harmless outburst involving one or more individuals within the Protected Area or ISFSI. OR Credible Security Threat of "LO" Severity</p> <p>Op. Modes: ALL</p>	<p><b>HA4</b> Security Event in a Plant Protected Area</p> <p>Intrusion into plant Protected Area by a hostile force. OR Sabotage device discovered in the Plant Protected area. OR Any security event of increasing severity that persists for ≥ 30 minutes:</p> <ul style="list-style-type: none"> <li>Credible bomb threats</li> <li>Extortion</li> <li>Suspicious Fire or Explosion</li> <li>Significant Security System Hardware Failure</li> <li>Loss of Guard Post Contact</li> </ul> <p>OR Credible Security Threat of "HI" Severity</p> <p>Op. Modes: ALL</p>	<p><b>HS1</b> Security Event in a Plant Vital Area</p> <p>Intrusion into plant vital area by a hostile force. OR Sabotage device discovered in the plant vital area.</p> <p>Op. Modes: ALL</p>	<p><b>HG1</b> Security Event Resulting in Loss of Ability to Reach and Maintain Cold Shutdown</p> <p>Loss of physical control of the Control Room. OR Loss of physical control of remote shutdown capability.</p> <p>Op. Modes: ALL</p>																																																																
<b>CONTROL ROOM EVACUATION</b>	None	<p><b>HA5</b> Control Room Evacuation Has Been Initiated</p> <p>Control room evacuation initiated per AOP 915, Shutdown Outside Control Room.</p> <p>Op. Modes: ALL</p>	<p><b>HS2</b> Control Room Evacuation Has Been Initiated and Plant Control Cannot Be Established</p> <p>Control room has been evacuated AND control of plant from Remote Shutdown Panel 1C388 NOT established within 20 minutes.</p> <p>Op. Modes: ALL</p>	None																																																																
<b>EC/OSM JUDGMENT</b>	<p><b>HU5</b> Other Conditions Existing Which in the Judgment of the EC/OSM Warrant Declaration of an Unusual Event</p> <p>Other conditions exist which in the judgment of the EC/OSM indicate potential degradation of the level of safety of the plant.</p> <p>Op. Modes: ALL</p>	<p><b>HA6</b> Other Conditions Existing Which in the Judgment of the EC/OSM Warrant Declaration of an Alert</p> <p>Other conditions exist which in the judgment of the EC/OSM indicate that plant systems may be degraded and that increased monitoring of plant functions is warranted.</p> <p>Op. Modes: ALL</p>	<p><b>HS3</b> Other Conditions Existing Which in the Judgment of the EC/OSM Warrant Declaration of a Site Area Emergency</p> <p>Other conditions exist which in the judgment of the EC/OSM indicate actual or likely major failures of plant functions needed for protection of the public.</p> <p>Op. Modes: ALL</p>	<p><b>HG2</b> Other Conditions Existing Which in the Judgment of the EC/OSM Warrant Declaration of a General Emergency</p> <p>Other conditions exist which in the judgment of the EC/OSM indicate EITHER:</p> <ul style="list-style-type: none"> <li>Actual or imminent substantial core degradation with potential for loss of containment.</li> <li>Potential for uncontrolled radionuclide releases which can reasonably be expected to exceed EPA PAG plume exposure levels outside the site boundary.</li> </ul> <p>Op. Modes: ALL</p>																																																																