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4

# DAEC EMERGENCY PLANNING DEPARTMENT PROCEDURE TRANSMITTAL ACKNOWLEDGEMENT MEMO (TAM-88)

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PSM Title: n/a

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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. 142 | Rev. 143 |
| EPIP CR-01 (PWR: 22803) | Rev. 3 | Rev. 4 |
| EPIP CR-02 (PWR: 22804) | Rev. 1 | Rev. 1 |
| Remove this form. | | |
| EPIP EOF-04 (PWR: 22805) | Rev. 1 | Rev. 2 |
| EPIP EOF-07 (PWR: 22785) | Rev. 4 | Rev. 5 |

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Palo, IA 52324

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|---|---|---|
| EPIP EOF-08 (PWR: 22753) | Rev. 6 | Rev. 7 |
| EPIP EOF-09 (PWR: 22784) | Rev. 0 | Rev. 1 |
| EPIP EOF-12 (PWR: 22887) | Rev. 0 | Rev. 1 |
| EPIP EOF-13 (PWR: 22895) | Rev. 0 | Rev. 0 |
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| EPIP EOF-16 (PWR: 22752) | Rev. 1 | Rev. 2 |
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| EPIP EOF-18 (PWR: 22896) | Rev. 3 | Rev. 4 |
| EPIP EOF-32 (PWR: 22897) | Rev. 3 | Rev. 4 |
| EPIP ERO-01 (PWR: 22871) | Rev. 0 | Rev. 1 |
| EPIP NOTE-07 (PWR: 22799) | Rev. 1 | Rev. 2 |
| EPIP OSC-02 (PWR: 22812) | Rev. | Rev. |
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| EPIP OSC-03 (PWR: 22813) | Rev. 1 | Rev. 2 |
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|---|---|---|
| EPIP TSC-01 (PWR: 22800) | Rev. 3 | Rev. 4 |
| EPIP TSC-03 (PWR: 22808) | Rev. 1 | Rev. 2 |
| EPIP TSC-04 (PWR: 22792) | Rev. 3 | Rev. 4 |
| EPIP TSC-06 (PWR: 22703) | Rev. 1 | Rev. 2 |
| EPIP TSC-07 (PWR: 22801) | Rev. 1 | Rev. 2 |
| EPIP TSC-08 (PWR: 22810) | Rev. 1 | Rev. 2 |
| EPIP TSC-10 (PWR: 22806) | Rev. 3 | Rev. 4 |
| EPIP TSC-11 (PWR: 22802)<br>Remove this form. | Rev. 1 | Rev. 1 |
| EPIP TSC-15 (PWR: 22807) | Rev. 1 | Rev. 2 |
| EPIP TSC-16 (PWR: 22807)<br>Remove this form. | Rev. 0 | Rev. 0 |
| EPIP TSC-17 (PWR: 22881)<br>Remove this form. | Rev. 0 | Rev. 0 |
| EPIP TSC-19 (PWR: 22797) | Rev. 1 | Rev. 2 |
| EPIP TSC-20 (PWR: 22798) | Rev. 2 | Rev. 3 |

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|---|---|---|
| EPIP TSC-21 (PWR: 22793) | Rev. 0 | Rev. 1 |
| EPIP TSC-22 (PWR: 22794) | Rev. 0 | Rev. 1 |
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| EPIP TSC-29 (PWR: 22795) | Rev. 2 | Rev. 3 |
| EPIP TSC-31 (PWR: 22910) | Rev. 0 | Rev. 1 |
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| Procedure | Title | Revision Number | Date |
|---|---|---|---|
| 1.1 | Determination of Emergency Action Levels | 21 | 10/13/03 |
| 1.2 | Notification | 29 | 10/13/03 |
| 1.3 | Plant Assembly and Site Evacuation | 9 | 09/12/01 |
| 1.4 | Release of Emergency-Related Information | 5 | 10/13/03 |
| 1.5 | Activation and Operation of the EOF | 5 | 10/13/03 |
| 2.1 | Activation and Operation of the OSC | 14 | 10/13/03 |
| 2.2 | Activation and Operation of the TSC | 24 | 10/13/03 |
| 2.3 | Operation of the FTS-2001 Phone Network | 7 | 10/13/03 |
| 2.4 | Activation and Operation of the ORAA | 8 | 09/12/01 |
| 2.5 | Control Room Emergency Response Operation | 15 | 10/13/03 |
| 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 | 13 | 10/13/03 |
| 3.2 | Field Radiological Monitoring | 14 | 10/13/03 |
| 3.3 | Dose Assessment and Protective Action | 20 | 10/13/03 |
| 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 | 10 | 10/13/03 |
| | | | |

| Form Number | Title | Revision Number | Referencing Procedure |
| --- | --- | --- | --- |
| CR-01 | OSM/OSS Checklist | Rev. 4 | EPIP 2.5 |
| CR-03 | Dose Projection & ARM Data Sheet | Rev. 0 | EPIP 2.5 |
| CR-04 | Control Room to TSC Transfer Checklist | Rev. 2 | EPIP 2.5 |
| EAL-01 | Abnormal Rad Levels/Radioactive Effluent Table | Rev. 4 | EPIP 1.1 |
| EAL-02 | Fission Barrier Table | Rev. 4 | EPIP 1.1 |
| EAL-03 | Hazards & Other Conditions Affecting Plant Safety | Rev. 4 | EPIP 1.1 |
| EAL-04 | System Malfunction Table | Rev. 3 | EPIP 1.1 |
| EAL-05 | ISFSI Table | Rev. 0 | EPIP 1.1 |
| EOF - 02 | NRC - HPN Communicator Checklist | Rev. 3 | EPIP 1.5 |
| EOF - 03 | Technical Recorder Checklist | Rev. 2 | EPIP 1.5 |
| EOF - 04 | Summary of Computer Data Backup Collection Activities | Rev. 2 | EPIP 1.5 |
| EOF - 05 | EOF Information Services Representative Checklist | Rev. 3 | EPIP 1.5 |
| EOF - 06 | DAEC Key Parameter Log | Rev. 0 | EPIP 1.5 |
| EOF - 07 | Emergency Response and Recovery Director Checklist | Rev. 5 | EPIP 1.5 |
| EOF - 08 | Rad & EOF Manager Checklist | Rev. 7 | EPIP 1.5, 3.3 |
| EOF – 09 | EOF OPS Liaison Checklist | Rev. 1 | EPIP 1.5 |
| EOF – 10 | EOF-Communicator Checklist | Rev. 3 | EPIP 1.5 |
| EOF – 11 | Support Services Coordinator Checklist | Rev. 3 | EPIP 1.5 |
| EOF – 12 | Field Team Director Checklist | Rev. 1 | EPIP 1.5, 3.3 |

| | | | |
| --- | --- | --- | --- |
| 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. 2 | EPIP 1.5, 3.3 |
| EOF – 17 | EOF Security Access Clerk Checklist | Rev. 3 | EPIP 1.5 |
| EOF – 18 | EOF Staffing Accountability Roster | Rev. 4 | 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. 4 | 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. 1 | EPIP 1.5 |
| JPIC – 01 | JPIC Manager Checklist | Rev. 4 | EPIP 1.4 |
| JPIC – 03 | Alliant Spokesperson Checklist | Rev. 3 | EPIP 1.4 |

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| --- | --- | --- | --- |
| 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. 2 | 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 | 12th Avenue Entrance to ORAL/ODEF | Rev. 0 | EPIP 2.7 |
| ORAA-01 | Offsite Relocation and Assembly Area Supervisor's | Rev. 1 | EPIP 2.4 |

| | 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-03 | Minimum Staffing Level | Rev. 2 | 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 | IC/EM & Mechanical Supervisor Checklist | Rev. 1 | 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 |
| PASE-05 | Site Evacuation Routes | Rev. 1 | EPIP 1.3 |
| SAM-01 | EOP-SAG Transition Checklist | Rev. 0 | EPIP 2.2 |

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| --- | --- | --- | --- |
| TSC-01 | Emergency Coordinator Checklist | Rev. 4 | EPIP 2.2 |
| TSC-02 | TSC-EOF Transfer Checklist | Rev. 3 | EPIP 2.2 |
| TSC-03 | Site Radiation Protection Coordinator Checklist | Rev. 2 | EPIP 2.2 |
| TSC-04 | Technical & Engineering Supervisor Checklist | Rev. 4 | EPIP 2.2 |
| TSC-05 | Quality Assurance Checklist | Rev. 1 | EPIP 2.2 |
| TSC-06 | Security & Support Supervisor Checklist | Rev. 2 | EPIP 2.2 |
| TSC-07 | Administrative Supervisor Checklist | Rev. 2 | EPIP 2.2 |
| TSC-08 | Material Management Supervisor Checklist | Rev. 2 | EPIP 2.2 |
| TSC-09 | TSC Communicator Checklist | Rev. 2 | EPIP 2.2 |
| TSC-10 | CR-Communicator Checklist | Rev. 4 | 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. 2 | EPIP 2.2 |
| TSC-18 | TSC MIDAS Operator Checklist | Rev. 0 | EPIP 2.2 |
| TSC-19 | Technical & Analysis Engineer Checklist | Rev. 2 | EPIP 2.2 |
| TSC-20 | TSC Operations Supervisor | Rev. 3 | EPIP 2.2 |
| TSC-21 | Electrical Engineer Checklist | Rev. 1 | EPIP 2.2 |
| TSC-23 | Mechanical Engineer Checklist | Rev. 0 | EPIP 2.2 |
| TSC-24 | Reactor Engineer Checklist | Rev. 2 | EPIP 2.2 |
| 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. 3 | EPIP 2.2 |
| TSC-30 | Emergency Action Request Log | Rev. 0 | EPIP 2.2 |
| TSC-31 | Radio Operator Log | 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. 4 | 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 |

## OPERATION

___ Evaluate plant conditions and review EPIP 1.1 to verify if appropriate emergency classification has been declared.

___ Verify notifications are implemented IAW EPIP 1.2. **Mark table below as applicable.**

| ACTION | UE | A | SE | GE | √ |
|---|---|---|---|---|---|
| A. Contact the "Duty Emergency Coordinator" if the event is suspected to require EAL Classification. | * | * | * | * | |
| B. CLASSIFY event per EPIP 1.1, "Determination of Emergency Action Levels,". | X | X | X | X | |
| C. Complete NOTE-5: State and County Notification Form (DETERMINE appropriate PARs per EPIP 3.3) | X | X | X | X | |
| D. INFORM Security Supervisor of emergency conditions.<br>• Request 2 Security individuals @ an ALERT or higher if event is NOT Security oriented.<br>• Verify Emergency Accountability card readers are activated @ an ALERT or higher. | X | X | X | X | |
| E. Have Security make notifications using NOTE-05 | X | X | X | X | |
| E. Complete NOTE-02 "ERO Notification". If event is off-hours, in addition to NOTE-02, complete NOTE-01 for "ERO Off-hours Notification". (Refer to EPIP 1.3) | * | X | X | X | |
| G. DIRECT Security to activate the Emergency Response Organization ERO to staff TSC and OSC using NOTE-02. | * | X | X | X | |
| H. Complete Plant Assembly Notification Form NOTE-04 and perform the Page Announcement. | * | X | X | X | |
| I. ASSEMBLE And ACCOUNT for site personnel within 30minutes of EAL declaration. | * | X | X | X | |
| J. Complete NOTE-03 NRC Event Notification Worksheet as soon as possible after State & County notifications, but within 60 minutes of declaration. | X | X | X | X | |
| K. DIRECT Radiation Protection to determine habitability of station by performing surveys and taking samples | ** | ** | ** | ** | |
| L. Evacuate NON-ESSENTIAL site personnel. | ** | ** | X | X | |
| M. TRANSFER Command and Control to TSC or EOF as applicable. | ** | ** | X | X | |
| N. DIRECT Radiation Protection to DISPATCH Field Team(s) for environs monitoring. | ** | ** | X | X | |
| O. Have In-plant operators go through OSC for task assignments when a release is occurring. | ** | X | X | X | |

| ACTION | UE | A | SE | GE | √ |
|---|---|---|---|---|---|
| P. Notify onsite personnel via page of any abnormal radiological areas or safety hazards (steam leaks). | X | X | X | X | |
| Q. Complete notifications to State, Counties and NRC upon TERMINATION OF EVENT. | X | X | X | X | |

___ Report accountability of NSPEO's to Security & Support Supervisor in the TSC (x7715).

___ If OSM desires hands-free communications:
Acquire phone headset; plug headset into phone. ___
Place "OSM Desk (X7610) Portable Phone Switch" to ON. ___

___ Verify the following positions are staffed:
CR Communicator ___

___ Verify turnover of plant status to the Emergency Coordinator.

___ Verify turnover of command and control of the ERO to the Emergency Coordinator.

___ Verify NRC ENS Communicator receives a turnover and notifies the NRC Emergency Operations Center as soon as possible but no later than 1 hour after event declaration. (The Security Lt. and STA are backups to the NRC ENS Communicator)

___ Verify Protective Action Recommendations IAW EPIP 3.3.

___ Callout additional operators as necessary.

___ Limit access to the Control Room to only those personnel necessary for operations support.

**RECOVERY**

___ Refer to EPIP 5.2 "Recovery and Re-entry"

ATTACHMENT 3

SUMMARY OF COMPUTER DATA BACKUP COLLECTION ACTIVITIES

**Information Services Representative in each facility:**

**(TSC = 851-7463; EOF - 398-4245)**

1. To be contacted upon suspicion of data loss from any computer generated information.

2. Shall initiate call to **Information Services Representative in the TSC** as needed to verify data or computer reliability.

3. Shall inform the Emergency Coordinator or the ER&RD of computer related problems.

**Information Services Representative in the TSC:**

1. Will be the person to contact with computer info problems. Will delete as needed, after confirmation with Control Room personnel, selected bad computer points.

2. Will be the focal point to start announcement back to the TSC and EOF Computer Operators that data is good/bad and to have them ignore or turn off displayed data or return to service as necessary.

**DATA COLLECTION UPON COMPUTER LOSS**

**CR Communicator:** Responsible to collect data on Form EOF-06, "DAEC Key Parameter Log" and communicate to TSC Communicator who will fill out identical form for transmission to EOF Communicator.

**RAC:** Transcribes data from CR-03 "Dose Projection & Arm Data Sheets" of EPIP 2.5 as normal and also shares data with MIDAS Operator or others as necessary.

**MIDAS Operators:** Will communicate with each other as necessary any information that is needed to take Dose Projections.

**DISPLAYS in EOF:** Like TSC, will have CAD generated drawings behind glass to allow for markup and trending without taking down.

**RAD Status Plotter:** Will make copies of Rad Data from MIDAS Operator as necessary to share with Plant Status Plotter who will update EOF displays before and during any computer problems.

**Plant Status Plotter:** Will continually update EOF displays with computer generated data or data taken from DAEC Key Parameter Log as necessary.

# DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**FACILITY:** EOF **ERO POSITION:** Emergency Response & Recovery Director

**EPIP FORM** EOF-07 **REVISION #:** 5

**NAME:**_____ **DATE:**_____

**NOTE**

This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

### REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.1, 'Determination of EAL's' |
| Section D, 'Emergency Classification System' | 1.2, 'Notification' |
| Section E, 'Notification Methods & Procedures' | 1.3, 'Plant Assembly and Accountability' |
| Section H, 'Emergency Facilities Staffing, Activation and Equipment' | 1.5, 'Activation & Operation of the EOF' |
| Section I, 'Accident Assessment' | 3.3, 'Dose Assessment & Protective Action' |
| Section J, 'Protective Response' | 4.5, 'Administration of KI' |
| Section M, 'Recovery and Reentry Planning and Post-Accident Operation' | 5.2, 'Recovery & Reentry' |

### BASIC PURPOSE OF THIS ERO POSITION:

*This position assumes command & control responsibility for the ERO from the Emergency Coordinator. Responsible for coordinating the total response effort of the ERO.*

*Time constraints to keep in mind during the event:*

- *15 minutes to declare an event once conditions are recognized*
- *State & County notifications (EAL and PAR) – 15 minutes from event declaration or change. (by Rad & EOF Manager)*
- *ENS Notified – As soon as possible but within 60 minutes of event declaration. (by EOF HPN Communicator)*
- *EOF must be OPERATIONAL within 1-hour of declaration of a Site Area or General Emergency*

## DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**ACTIVATION**

___ Report to the EOF, sign in, acquire handbook. Utilize checklist, as a guide.

___ Receive a plant status update from the Emergency Coordinator.

___ If the event is an Alert or Unusual Event, assemble and staff the EOF at your discretion based upon the potential needs of the site and the ERO. Discuss activating the JPIC with the JPIC Manager.

___ Brief the EOF Staff of the event.

___ If the event is a Site Area or General Emergency, EOF is to be OPERATIONAL within 1-hr of event declaration.

- EOF minimum staff for declaring facility OPERATIONAL:
  - Rad & EOF Manager
  - Rad Assessment Coordinator (RAC)
  - EOF Ops Liaison
  - Support Services Coordinator

___ Receive a turnover and assume responsibility for specific functions from the EC in accordance with TSC-02.

___ Brief the EOF Staff on the status of the event and inform them of what the EOF is assuming responsibility for.

___ Ensure that this information gets on the Electronic Status Board and the JPIC Manager is informed.

**OPERATION**

*ON-GOING TASKS TO BE PERFORMED THROUGHOUT THE EVENT*

- Periodically (at least every 30-minutes, or as conditions change) brief the EOF staff on the current status of the plant and response actions being taken to mitigate the event.
  - Ensure to give the facility a 'heads-up', i.e., *"Standby for a brief in 1-minute".* so conversations can cease.
  - Try not to 'talk' over the Rad & EOF Manager if the Rad & EOF Manager is notifying the State & Counties of a change in EALs or PARs.
  - Ask the Rad & EOF Manager and the EOF Ops Liaison to prepare status updates for their respective areas and allow them an opportunity to brief the EOF as necessary.
  - The following information should be given as applicable,
    - Plant status
    - Significant changes or problems

- Response actions in progress
- Planned response actions
- Potential offsite consequences
- Reminder to keep extraneous conversations to a minimum
- Reminder to use phonetic alphabet and 3-Part Communications

- Ensure that this information gets on the Electronic Status Board

- Direct the EOF Staff on applicable tasks to be carried out.
- Direct the Rad & EOF Manager on applicable tasks to be carried out by the radiation protection staff.
- Coordinate accident assessment and analysis efforts to determine the full scope and impact of the emergency.
- Coordinate efforts, with the EC, to return the plant to, and maintain it in a safe, stable condition.
- Keep corporate directors (Asset Owner and NMC) apprised of events at DAEC as necessary.
- Verify that the Insurance & Risk Manager (or Individual responsible for this role if a title change has occurred) for the Asset Owner has contacted American Nuclear Insurers (ANI). ANI should be contacted at an Alert or greater.
- Classify/Reclassify the event as necessary. This responsibility **may not be delegated**.
- Approve Protective Action Recommendations. This responsibility **may not be delegated**. (Ensure to include the Rad & EOF Manager when deciding on PARs)
- Approve extensions on exposure limits for emergency workers. This responsibility **may not be delegated**.
  - 2 Rem can be extended to 5 Rem TEDE
  - 10 Rem TEDE protecting property
  - 25 Rem TEDE life saving
  - >25 Rem TEDE life saving on a volunteer basis
  - Lens of the eye 15 Rem
  - Dose to any organ 50 Rem
  - KI is administered if 25 Rem CDE is likely (EPIP 4.5)
- Verify that the Support Services Coordinator has arranged for continuous coverage by ERO personnel, for events of a protracted nature.

## NRC TEAM

- Brief the NRC Team upon arrival on the following topics:
  - Event sequence.
  - Plant status, major problems and corrective actions being taken or planned.
  - Dose projection results and PAR's.
    - Onsite radiological concerns
    - Offsite radiological concerns
      - Meteorological conditions
      - EPZ implemented actions
  - Prognosis of the event.
  - Potential need for Tech. Spec./license deviations.

## RECOVERY

___ Coordinate with the EC to initiate recovery planning in accordance with EPIP 5.2.

___ Deactivate emergency response centers.

___ Direct the Technical Recorder to prepare a written summary upon downgrading from an ALERT or greater. Topics to be covered should be summary of the event, response actions taken or in progress, significant problems which require further evaluation before resolution. (in accordance with EPIP 1.5)

# DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**FACILITY:** EOF **ERO POSITION:** Rad & EOF Manager

**EPIP FORM** EOF-08 **REVISION #:** 7

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

### REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.1, 'Determination of EAL's' |
| Section D, 'Emergency Classification System' | 1.2, 'Notification' |
| Section E, 'Notification Methods & Procedures' | 1.5, 'Activation & Operation of the EOF' |
| Section H, 'Emergency Facilities Staffing, Activation and Equipment' | 2.8, 'Security Threat' |
| Section I, 'Accident Assessment' | 3.2, 'Field Radiological Monitoring' |
| Section J, 'Protective Response' Section K, 'Radiological Exposure Control' | 3.3, 'Dose Assessment & Protective Action' |
| Section M, 'Recovery and Reentry' | 5.2, 'Recovery & Reentry' |

**BASIC PURPOSE OF THIS ERO POSITION:**
*Responsible for coordinating site radiological response efforts in coordination with the State and County's. Responsible for notifying the State and Counties of changes in EALs, PARs, and other updates as required. Responsible for the development of PARs.*

*Time constraints to keep in mind during the event:*

- *15 minutes to declare a PAR change, or update, once conditions are recognized*
- *State & County notifications (EAL and PAR) – 15 minutes from event declaration or change*
- *ENS (NRC) notified of changes to EALs – As soon as possible but within 60 minutes of event declaration)*

## DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**ACTIVATION**

1. Verify the following positions are filled:

   Field Team Director (May be at TSC. Contact SRPC to have 1 FT Director relocate to the EOF when the EOF is to be activated) _____

   MIDAS Operator _____

   Radiological Assessment Coordinator (RAC) *(this position is necessary to declare the EOF **operational.**)* _____

   Rad Data Plotter _____

   HPN Communicator (May be at TSC. Contact SRPC to have HPN Communicator relocate to the EOF when the EOF is to be activated) _____

2. From the RAC:

   Verify dose projection capability _____

   Verify radio operability _____

   Verify EOF ready to assume Command & Control of the Offsite Field Teams (pending possible relocation of FT Director) _____

   Verify "Rad Data Line" operability _____

3. Communications:

   Verify State & County communication paths open as necessary:

   Establish communications with the State & Counties via the ADMIN HOT LINE (786-8172) or call the state. _____

   [NOTE: No need to maintain this line open, i.e., putting the headset in the drawer. Call when desired to brief the state & counties.]

4. Status (From SRPC):

EAL Declared: _____ @ _____ (time) *{update PAR board}*

PAR Declared: _____ @ _____ (time) *{update PAR board}*

50m Wind Direction given on last NOTE-05: _____

50m Wind Speed given on last NOTE-05: _____

Standby Gas Treatment Status: _____

Rx shutdown? (From Rx Eng via SRPC) _____

Status of release:

Start time: _____

Release point: _____

Filtered and/or unfiltered release?
(from last NOTE-05): _____

Field Teams:

Location of FT 'A': _____
_____

Location of FT 'B': _____
_____

Field survey results consistent
with dose projections? _____
_____

Plume:

Characteristics: _____
_____
_____

Plume exposure rates: _____
_____

Plume edges: _____
_____

## DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**OPERATION**

1. Brief the RAC of the status of Rad Pro issues. _____
2. Verify ERDS and SPDS are operational in the EOF. _____
3. When the EOF is declared Operational:
   Notify the State & Counties via the Admin Hotline _____

   Notify the State via the "Red Phone" (Line #2, 6666) _____

**ONGOING**

4. Periodically brief the State & Counties, via the Admin Hotline, of the status of the emergency.
5. Work with the RAC to ensure that Field Teams are periodically briefed of the status of the emergency.
6. Work with the RAC to ensure that the PAR Board is kept up to date.
7. Work with the RAC to ensure that the State PAR Display is kept up to date.
8. Work with the RAC to continually monitor potential PAR changes based upon:

   Change in wind direction requiring subarea changes.

   Change in dose projections requiring a PAR change.

   Field Team results inconsistent with dose projections.

9. Ensure to inform the EOF Communicator of pertinent information for display on the ESB. (PARs recommended by the site, State Protective Actions, status of evacuation, etc.)
10. Assist the EOF Ops Liaison in looking ahead for changes in EALs.
11. Keep the ER&RD apprised of ongoing status.
12. If/when subarea 23 is evacuated, notify JPIC to relocate to alternate location.

## STATE & COUNTY NOTIFICATIONS

[*Time requirements:*

*15-min from CLASSIFICATION to MESSAGE INITIATED for State/County notification.*

*ASAP, but within 60-min from CLASSIFICATION, to notify the NRC via the ENS line, by the HPN Communicator.]*

1. Assist the ER&RD and EOF Ops Liaison in developing the NOTE-05.

2. If time permits, i.e. can be performed and still meet the 15-min requirement for State/County notification, discuss potential PAR changes with the State via the 'RED' phone (line #2, 6666) and annotate on NOTE-05 the State Protective Actions (block 14). _____

3. Using the approved NOTE-05 (peer check prior to contact), contact the State & Counties, via the ADMIN HOT LINE, and notify the State & Counties as follows:

   a. **INTERRUPT ALL CONVERSATIONS** on the ADMIN HOTLINE informing them that DAEC has an announcement. _____

   b. Perform an initial roll call, noting the time the first State or County responder states that they are there. Note this time, and date, on NOTE-05. _____

   c. Read NOTE-05 as follows, for example, "This is a DAEC emergency action level notification. Block 1, bravo, drill. Block 2, charlie, EOF. Block 3, delta, *etc.*" _____

   d. Inform the State & Counties of who you are, which facility you are calling from, & the time you completed the message. _____

   e. Perform a FINAL ROLL CALL and obtain the initials of the State & County recipients of the notification. _____

4. Have the Messenger fax NOTE-05 to the State/Counties. _____

5. Ensure that the HPN Communicator informs the NRC of the EAL change, via the ENS line. _____

**RECOVERY/REENTRY**

1. Coordinate with the ER&RD, RAC, & SRPC to develop implement a Recovery/Reentry Plan in accordance with EPIP 5.2 and EPIP Forms EOF-28 & EOF-29. _____

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** EOF **ERO POSITION:** EOF OPERATIONS LIAISON

**EPIP FORM** EOF-09 **REVISION #:** 1

**NAME:**_____ **DATE:**_____

**NOTE**

This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.1, 'Determination of Emergency Action Levels' |
| Section D, 'Emergency Classification System' | 1.2, 'Notification' |
| Section E, 'Notification Methods and Procedures' | 1.5, 'Activation and Operation of the EOF' |
| | 5.2, 'Recovery and Reentry' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for looking ahead to the next EAL or PAR declaration, to assist the ER&RD and Rad & EOF Manager in making EAL/PAR declarations, to generate the paperwork necessary to make EAL/PAR declarations, and to ensure that the State, Counties, and the NRC get notified.*

## DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

### ACTIVATION

___ Report to the EOF, sign in, acquire position badge & handbook. Utilize checklist, as a guide.

___ Receive a briefing from the TSC Ops Liaison to ensure you are aware of the current plant status.

### OPERATION

___ Track control room implementation of EOPs and inform the ER&RD when EOPs are entered or exited.

___ Track TSC implementation of SAGs and inform the ER&RD when SAG paths are entered or exited.

___ Monitor plant status and inform the ER&RD and Rad & EOF Manager when EALs are entered or when a change in the EAL classification is warranted.

___ When an EAL/PAR is declared or downgraded, perform the following:

- Complete NOTE-05, ensure to obtain input from the Rad & EOF Manager on the PAR. Ensure that the ER&RD approves the NOTE-05.
- Give the approved NOTE-05 to the Rad & EOF Manager to make the notifications to the State and Counties.
- Complete NOTE-02, and NOTE-03 and ensure the ER&RD approves them.
- Give the NOTE-02 to the Support Services Coordinator to implement
- Give the NOTE-03 to the HPN Communicator to implement.
- Make sure the DAEC Plant Page announcement is made in accordance with NOTE-06 (performed by TSC).
- Collect all paperwork from notification once they are all complete
- Inform the ER&RD that all notifications/announcements are completed
- Inform the EOF Communicator of the time when the event was declared and when State, County, and Federal notifications were completed for entry on the Electronic Status Board.

___ Advise the ER&RD and Rad & EOF Manager on any matter that pertains to the operation of the DAEC.

### RECOVERY

___ Assist the ER&RD during the recovery/reentry phase.

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC/EOF **ERO POSITION:** Field Team Director

**EPIP FORM** EOF-12 **REVISION #: 1**

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.5, 'Activation & Operation of the EOF'<br>2.1, 'Activation & Operation of the OSC'<br>2.2, 'Activation & Operation of the TSC' |
| Section I, 'Accident Assessment' | 2.8, 'Security Threat' |
| Section J, 'Protective Response' | 3.2, 'Field Radiological Monitoring' |
| Section K, 'Radiological Exposure Control' | 3.3, 'Dose Assessment & Protective Action' |
| Section M, 'Recovery and Reentry' | 5.2, 'Recovery & Reentry' |

## BASIC PURPOSE OF THIS ERO POSITION:

*Directs the Field Teams. Coordinates offsite radiological monitoring performed by DAEC with the State and Federal organizations. Ensures State Field Team Captain is kept apprised of site dose projections.*

*2 Field Team Directors report to the TSC, initially, to direct the Offsite and Onsite Field Teams. When the EOF is to be activated, 1 Field Team Director will relocate to the EOF to assume control of the Offsite Field Teams while the remaining Field Team Director maintains control of the Onsite Field Team. During the transition, the remaining Field Team Director will control all Field Teams with assistance from the Rad Support Staff as requested.*

## ACTIVATION

1. Report to the TSC, swipe in the Accountability Card Reader , sign in on the Staffing Board, acquire and wear your position badge and SRD (when in the TSC). _____

2. Verify/setup the following:

   a. Offsite Field Monitoring Teams Radio (800Mhz) (TSC & EOF)

      i. Headset amplifier on-off switch to ON _____

      ii. Headset amplifier volume turned up _____

      iii. Volume control on radio turned down _____

      iv. Repeater switch on radio to position #1 _____

   b. Onsite Field Monitoring Teams Radio (VHF) (TSC)

      i. Vertical section (top portion)

         1. Ch 1 push-button, OUT _____
         2. Ch 2 push button, IN _____
         3. Ch 3 push-button, IN _____
         4. Ch 5 push-button, IN _____
         5. Unselected Volume, full counterclockwise _____

      ii. Horizontal section (bottom portion)

         1. On/Off switch, ON _____
         2. Ch 1 push-button, DOWN _____
         3. Ch 2 push-button, UP _____
         4. Ch 3 push-button, UP _____
         5. Ch 5 push-button, UP _____
         6. Speaker Volume, adjust as necessary _____
         7. All mute push-button, UP _____
         8. "PL" Monitor push-button, UP _____
         9. Speaker mute, DOWN _____

10. Tone Alert, UP _____

11. Intercom, UP _____

3. Perform a Radio Check with all Field Teams (once dispatched)

   a. Offsite Team 'A' _____

   b. Offsite Team 'B' _____

   c. Onsite Team _____

4. Obtain plotting supplies and equipment. _____

## OPERATION

1. Inform the SRPC/RAC that contact has been established and that your are ready to control the Field Teams _____

2. Assume control of the Field Teams as directed. _____

3. Obtain team information:

   a. Offsite Team #1

      i. Location: _____

      ii. Vehicle type, color, make, model, year, license #: _____
      _____
      _____

      iii. Current exposure rates: _____

      iv. Personnel names/badge #s: _____
      _____

      v. Personnel dose: _____
      _____

      vi. Last instructions given: _____
      _____
      _____

   b. Offsite Team #2

      i. Location: _____

      ii. Vehicle type, color, make, model, year, license #: _____
      _____
      _____

iii. Current exposure rates: _____

iv. Personnel names/badge #s: _____
_____

v. Personnel dose: _____
_____

vi. Last instructions given: _____
_____
_____

c. Onsite Team

i. Location: _____

ii. Vehicle type, color, make, model, year, license #: _____
_____
_____

iii. Current exposure rates: _____

iv. Personnel names/badge #s: _____
_____

v. Personnel dose: _____
_____

vi. Last instructions given: _____
_____
_____

## ONGOING

4. Brief the Field Teams periodically, or as conditions warrant, on the following:

a. Event classification
b. PAR determination
c. State/County protective actions
d. Plant status
e. Met conditions and forecast
f. Projected exposure rates
g. Anticipated plume location

5. Consider replacing TLD and particulate/iodine filters at environmental sample stations (coordinate with SRPC/RAC).

6. Keep the State Field Team Captain apprised of team locations and results, and likewise keep informed of State Field Team locations and results. Coordinate with the RAC.

7. Ensure that all rad data boards are kept up to date.

8. Keep accurate logs in accordance with EPIP 3.2 & 3.3

## DIRECTING FIELD TEAMS

9. Onsite Field Team

   a. As directed by the SRPC.

      i. May be asked to perform habitability checks of the Badging Center, PSC, Training Center, etc.

      ii. May be asked to monitor the area around the site to assist in determining release paths.

10. Offsite Field Teams

    a. Use the grid coordinate system
    b. Anticipate plume location based on wind direction & speed
    c. Determine a traverse for the team to locate and define the plume
    d. Make plume traverses wide enough to find a meandering plume (approximately 1 mile beyond the suspected plume edge)
    e. Initially define the plume with a few fixed point survey readings, then request more surveys to refine the plume shape
    f. After finding the leading edge of the plume, have one team continue to track the leading edge while another team traverses the plume to find the maximum radiation fields, plume edges and the trailing edge.
    g. Request plume centerline air samples after the plume has been defined
    h. Monitor team personnel doses and request dose extensions from the SRPC/RAC as required
    i. Request soil, water, & vegetation samples when requested by the SRPC/RAC
    j. Arrange sample transport to a laboratory for analysis when necessary, coordinate with the SRPC/RAC and ORAL Supervisor.

# DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**FACILITY:** EOF **ERO POSITION:** Rad Assessment Coordinator

**EPIP FORM** EOF-16 **REVISION #: 2**

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

**REFERENCES**

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.5, 'Activation & Operation of the EOF' |
| Section I, 'Accident Assessment' | 2.8, 'Security Threat' |
| Section J, 'Protective Response' | 3.2, 'Field Radiological Monitoring' |
| Section K, 'Radiological Exposure Control' | 3.3, 'Dose Assessment & Protective Action' |
| Section M, 'Recovery and Reentry' | 5.2, 'Recovery & Reentry' |

**BASIC PURPOSE OF THIS ERO POSITION:**

*Directs the Field Teams & coordinates with the Rad & EOF Manager and SRPC performance of dose projection activities. Coordinates offsite radiological monitoring and dose assessment performed by DAEC with the State and Federal organizations. Works with the Rad & EOF Manager to ensure PARs are properly developed based upon dose projections and/or Field Team results. Ensures State Filed Team Captain is kept apprised of site dose projections.*

*Time constraints to keep in mind during the event:*

- *15 minutes to declare a PAR change, or update, once conditions are recognized*
- *State & County notifications (EAL and PAR) – 15 minutes from event declaration or change*

**ACTIVATION**

1. Verify the following positions are filled:

   Field Team Director (May be at TSC. Contact SRPC to have 1 FT Director relocate to the EOF when the EOF is to be activated) _____

   MIDAS Operator _____

   Rad Data Plotter _____

2. Verify/setup the following:

   Verify dose projection capability (MIDAS Operator) _____

   Verify radio operability _____

   Verify EOF ready to assume Command & Control of the Offsite Field Teams (pending possible relocation of FT Director) _____

   Verify "Rad Data Line" operability _____

3. Status (From Rad & EOF Manager):

EAL Declared: _____ @ _____ (time) *{update PAR board}*

PAR Declared: _____ @ _____ (time) *{update PAR board}*

50m Wind Direction given on last NOTE-05: _____

50m Wind Speed given on last NOTE-05: _____

Standby Gas Treatment Status: _____

Rx shutdown? (From Rx Eng via SRPC) _____

Status of release:

Start time: _____

Release point: _____

Filtered and/or unfiltered release?
(from last NOTE-05): _____

Field Teams:

Location of FT 'A': _____
_____

Location of FT 'B': _____
_____

Field survey results consistent
with dose projections? _____
_____

Plume:

Characteristics: _____
_____
_____

Plume exposure rates: _____
_____

Plume edges: _____
_____

## DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**OPERATION**

1. Brief the 'Glasshouse' of the status of Rad Pro issues. _____

2. When ready to assume responsibility for Dose Projections and Field Teams, notify the Rad & EOF Manager. _____

3. When directed to assume responsibility for Dose Projections, have the EOF MIDAS Operator coordinate with the TSC MIDAS Operator to ensure that transfer is accomplished. Use Information Services to assist in ensuring a smooth transfer as necessary. _____

4. When directed to assume responsibility for Field Teams, ensure that the FT Director has relocated to the EOF and coordinate with the SRPC to complete the transfer. _____

**ONGOING**

5. Periodically brief the ORAL/ODEF and Field Teams of the status of the emergency.

6. Work with the Rad & EOF Manager to ensure that the PAR Board is kept up to date.

7. Work with the Rad & EOF Manager to ensure that the State PAR Display is kept up to date.

8. Work with the Rad & EOF Manager & MIDAS Operator to continually monitor potential PAR changes based upon:

   Change in wind direction requiring subarea changes.

   Change in dose projections requiring a PAR change.

   Field Team results inconsistent with dose projections.

9. Ensure to inform the EOF Communicator of pertinent information for display on the ESB.

10. Keep the Rad & EOF Manager apprised of ongoing status.

11. Ensure Dose Projections and Field Team reports are reviewed ASAP so as to quickly identify potential changes to PARs. If it is determined that a change in PARs may be warranted, **IMMEDIATELY** have the RAD & EOF Manager review the information and take the appropriate action(s).

12. Verify plume characterization:

Plume exposure rates: _____

Air samples: _____

Plume edges: _____

Environmental samples: _____

Air sample station samples: _____

Identify additional dose projections based on changes in:

- Weather forecast
- Release rates
- Release points
- Release duration
- Drywell/Torus radiation monitor readings

**RECOVERY/REENTRY**

1. Coordinate with the ER&RD, Rad & EOF Manager, & SRPC to develop implement a Recovery/Reentry Plan in accordance with EPIP 5.2 and EPIP Forms EOF-28 & EOF-29._____

# EOF SECURITY ACCESS CLERK CHECKLIST



The following checklist is available for use by the Security Access Clerk in the EOF on the 15th Floor as a guide to ensuring that emergency response actions are completed. The column to the right can be used to put either a check when an item has been completed or any notation which will be of assistance to the user.

1. Upon notification that the EOF is being activated, report to the 15th floor of the Alliant Tower. _____

2. Ensure that the entry doors remain closed and/or monitored. _____

3. Set up access table. _____

4. Obtain supplies:
   a. Personnel Access Logs and Pen
   b. Digital clock
   c. Badges, alligator clips and plastic badge holders _____

5. Complete set up of access area near the 15th floor lobby. _____

6. Process EOF staff as they arrive. _____

7. Ensure that all EOF staff have name and position badges and have signed in on the Personnel Access Log. _____

   a. Use Form EOF-18 from Appendix 1 of the EPIP manual to ensure that those present are accounted for and to identify those positions not yet filled and inform the ER&RD.

   ***

   NOTE

   If an actual event occurs, only post the "Access Limited to Authorized Personnel Only" sign.

   ***

8. Post appropriate signs on the doors:

   a. "DRILL NOTICE" _____

   b. "ACCESS LIMITED TO AUTHORIZED PERSONNEL ONLY" _____

9. Post emergency classification signs (ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY) as appropriate when the emergency classification changes. _____

10. Notify the ER&RD when your area is completely set up. _____

11. Process any incoming telephone calls as described in EPIP 1.5 _____

12. Ensure that Support Services personnel who are delivering equipment and/or supplies for emergency use sign-in and out on the Personnel Access Log. _____

13. Sign in and out key EOF staff. _____

14. Address access questions to the ER&RD _____

# EOF STAFFING ACCOUNTABILITY ROSTER



| DAEC Responders | Present | State, County, Federal Responders | Present |
|---|---|---|---|
| * ER&RD | | NRC Representative | |
| * Radiological and EOF Manager | | NRC Representative | |
| * Radiological Assessment Coordinator | | NRC Representative | |
| * EOF OPS Liaison | | NRC Representative | |
| * Support Services Coordinator | | FEMA Representative | |
| Field Team Director (may be in TSC until needed in EOF. Contact Rad & EOF Manager for status) | | FEMA Representative | |
| Radiological Data Plotter | | FEMA Representative | |
| EOF Communicator | | FEMA Representative | |
| Technical Recorder | | State EMD Representative | |
| Security Access Clerk | | Benton County Representative | |
| MIDAS Operator | | Linn County Representative | |
| rmation Services Representative | | State Health Dept. Representative | |
| Information Services Representative | | | |
| Messenger | | | |
| NRC-HPN Communicator | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*** = Required responders for EOF activation (all are 1-hr responders)**
**Notify the ER&RD of any DAEC positions that are vacant.**

# EOF STAFF RESPONSE

| Position | *Required Response Time |
|---|---|
| **Emergency Response and Recovery Director** | **1 hour**** |
| **Radiological and EOF Manager** | **1 hour**** |
| **Radiological Assessment Coordinator** | **1 hour**** |
| **Support Services Coordinator** | **1 hour**** |
| **EOF Ops Liaison** | **1 hour**** |
| Field Team Director (may be in TSC initially) | 4 hours |
| NRC-HPN Communicator | 4 hours |
| Radiological Data Plotter | 4 hours |
| Security Access Clerk | 4 hours |
| EOF Communicator | 4 hours |
| Technical Recorder | 4 hours |
| Messenger | 4 hours |
| EOF MIDAS Operator | 4 hour |
| EOF Information Services Representative | 4 hours |
| EOF Information Services Representative | 4 hours |

*** At a Site Area or General Emergency**

**** These positions constitute the minimum staffing of the EOF. Once these positions are filled the EOF may be declared operational.**

# ERO POSITION EQUIVALENCY TABLE

(1) **ERO Position Equivalency Table:** A table used to provide guidance for determining which ERO positions can be called upon to support other ERO positions where skill sets and training are similar.

(a) In the event that timely augmentation with qualified ERO responders becomes suspect, the ER&RD and EC have the authority to appoint plant personnel to staff these positions until a qualified responder can respond (reference E-Plan "B" & EPIP 1.5, 2.2)

(b) This ERO Equivalency Table provides a subset of positions with similar skill sets to allow the ER&RD or EC to determine who should staff what.

> **NOTE**
>
> Staffing via the Equivalency Table shall only be until a qualified responder is available. Positions staffed by the Equivalency Table shall receive increased direction & oversight, and shall be appropriately documented.

(2) When staffing ERO positions with additional staff, use this table as follows:

(a) Determine the ERO position you wish to staff

(b) Determine if additional ERO personnel equivalent to the open position are available

(i) If an alternate is not available for the open position, staffing the open position with anyone else is satisfactory. However, as much as possible, adherence to this equivalency table should be maintained.

(c) Staff the open ERO position with the additional ERO staff member

(d) Provide additonal direction and oversight to this staff member

(e) Continue to locate qualified ERO staff members for the given position.

(3) This staffing decision shall be documented in the logs of the ERO Staff member making the decision.

| ERO POSITION | EQUIVALENT POSTION |
| --- | --- |
| ADMIN SUPV | TSC CLERICAL / SECURITY SUPV |
| ASST JPIC MANAGER | WEBMASTER |
| AV SPECIALIST | LOGISTICS SUPPORT / LOGISTIC COORDINATOR |
| BENTON COUNTY LIAISON | ANY STATE / COUNTY LIAISON |
| CHEM TECHS | CHEM STAFF |
| CR COMM | TSC COMM |
| DAEC SPOKESPERSON | JPIC MANAGER |
| EMERGENCY COORDINATOR | TECH & ENG SUPV / TSC OPS SUPV |
| IC/EM ENGINEER | ANY ERO ENG |
| IC/EM SUPV | ANY OSC SUPV |
| ELECTRICIANS | IC/EM ENG OR SUPV |

* - REFER TO ETB FOR QUALIFIED STAFF

| ERO POSITION | EQUIVALENT POSTION |
| --- | --- |
| EOF HPN COMM | TSC HPN / TSC ENS COMM |
| EOF MIDAS OPERATOR | RAD PRO STAFF |
| EOF OPS LIAISON | TSC OPS SUPV / TSC OPS LIAISON / OSM-CRS-STA |
| ER&RD | NONE |
| FIELD TEAM DIR | RAD SUPPORT STAFF / RAC |
| FIELD TEAM DRIVER * | ANYONE WITH A DRIVER'S LICENSE |
| FIELD TEAM MONITOR * | RAD PRO STAFF |
| HP SUPV | SRPC |
| HP TECHS * | HP STAFF |
| I&C TECHS | IC ENG / IC SUPV |
| INFO SERVICES REP | EDS FROM TSC OR EOF |
| JPIC MGR | ASST JPIC MGR / TECH LIAISON |

* - REFER TO ETB FOR QUALIFIED STAFF

| ERO POSITION | EQUIVALENT POSTION |
| --- | --- |
| JPIC SECURITY ACCESS CLERK | LOGISTICS SUPPORT / PIO SUPPORT |
| LINN COUNTY LIAISON | ANY STATE / COUNTY LIAISON |
| LOGISTICS COORD | JPIC MGR / ASSISTANT JPIC MGR |
| LOGISTICS SUPPORT SPECIALIST | PIO SUPPORT |
| MECHANICAL ENGINEER | ANY ERO ENG |
| MECHANICAL SUPV | ANY OSC SUPV |
| MECHANICS | MM ENG / MM SUPV |
| MESSENGERS | POOL EOF |
| NEWS MEDIA RUMOR CONTROL | ASST JPIC MGR |
| ORAA SUPV | ANY RAD PRO STAFF |
| ORAL/ODEF SUPV | ANY RAD PRO STAFF |
| OSC STAFF (RADWASTE) | POOL TSC |

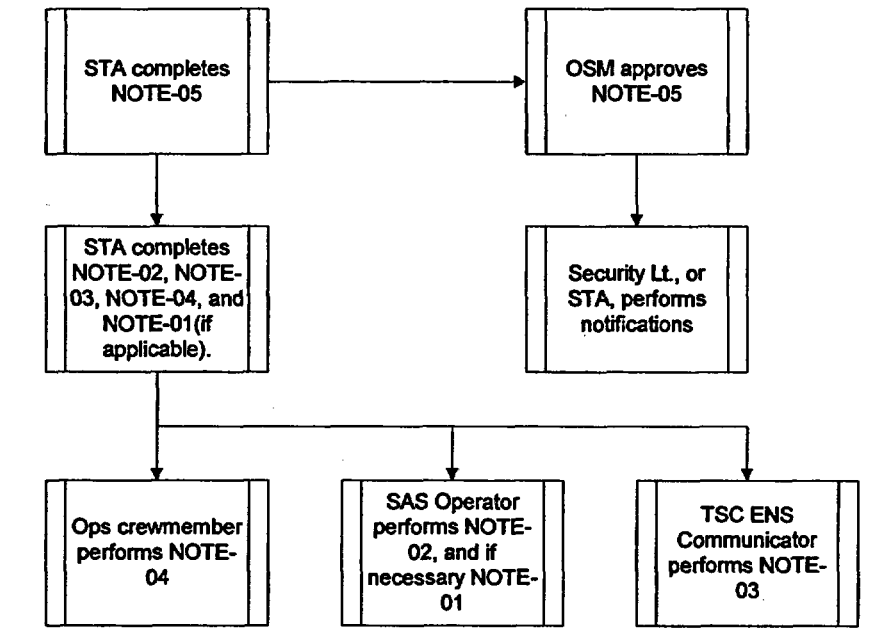
* - REFER TO ETB FOR QUALIFIED STAFF

| ERO POSITION | EQUIVALENT POSTION |
| --- | --- |
| OSC SUPV | ANY OSC SUPV |
| PIO SUPPORT | LOGISTICS SUPPORT / LOGISTISC COORDINATOR |
| RAC | RAD & EOF MGR |
| RAD & EOF MGR | SRPC |
| RAD DATA PLOTTER | INFO SERVICES |
| RAD SUPPORT STAFF | SRPC / TSC OR EOF HPN COMM |
| RUMOR CONTROL COORD | ALLIANT CUSTOMER SERVICE SUPV |
| RX ENGINEER | STA |
| SECURITY & SUPPORT SUPV | SECURITY LT. |
| SECURITY ACCESS CLERK | POOL EOF |
| SRPC | HP SUPV |
| STATE LIAISON | ANY COUNTY LIAISON |

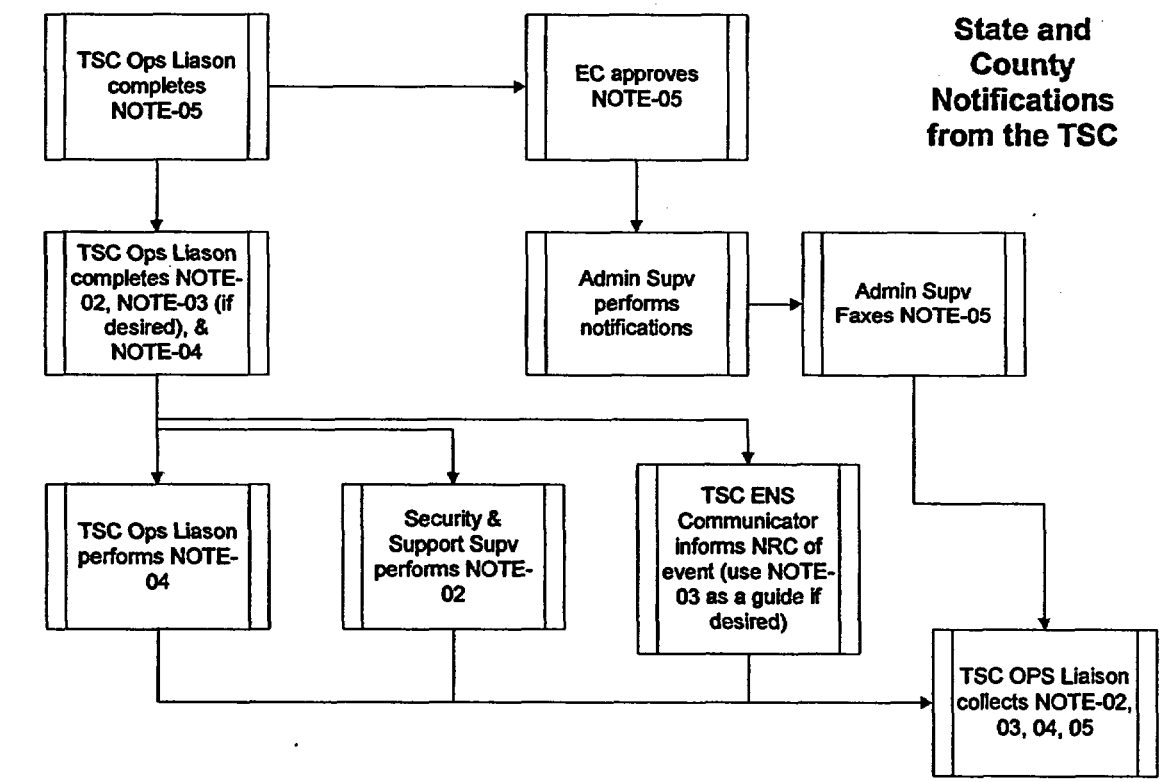
* - REFER TO ETB FOR QUALIFIED STAFF

| ERO POSITION | EQUIVALENT POSTION |
|---|---|
| SUPPORT SERVICES COORD | POOL FROM EOF |
| TECH & ANALYSIS ENG | ANY PRA QUALIFIED ENG OR STA |
| TECH & ENG SUPV | ANY ERO ENG |
| TECHNICAL LIAISON | ASST JPIC MGR / ANY ENG OR OPS LIAISON / SPOKESPERSON |
| TECHNICAL RECORDER | TSC DED COMMUNICATOR / ANY STATE & COUNTY LIAISON |
| TSC CLERICAL | PLANT POOL |
| EOF COMM | TSC-CR / CR-TSC COMM |
| TSC COMM | CR-TSC COMM |
| TSC-OPS LIAISON | EOF OPS LIAISON / TSC OPS SUPV/ OSM-CRS-STA |

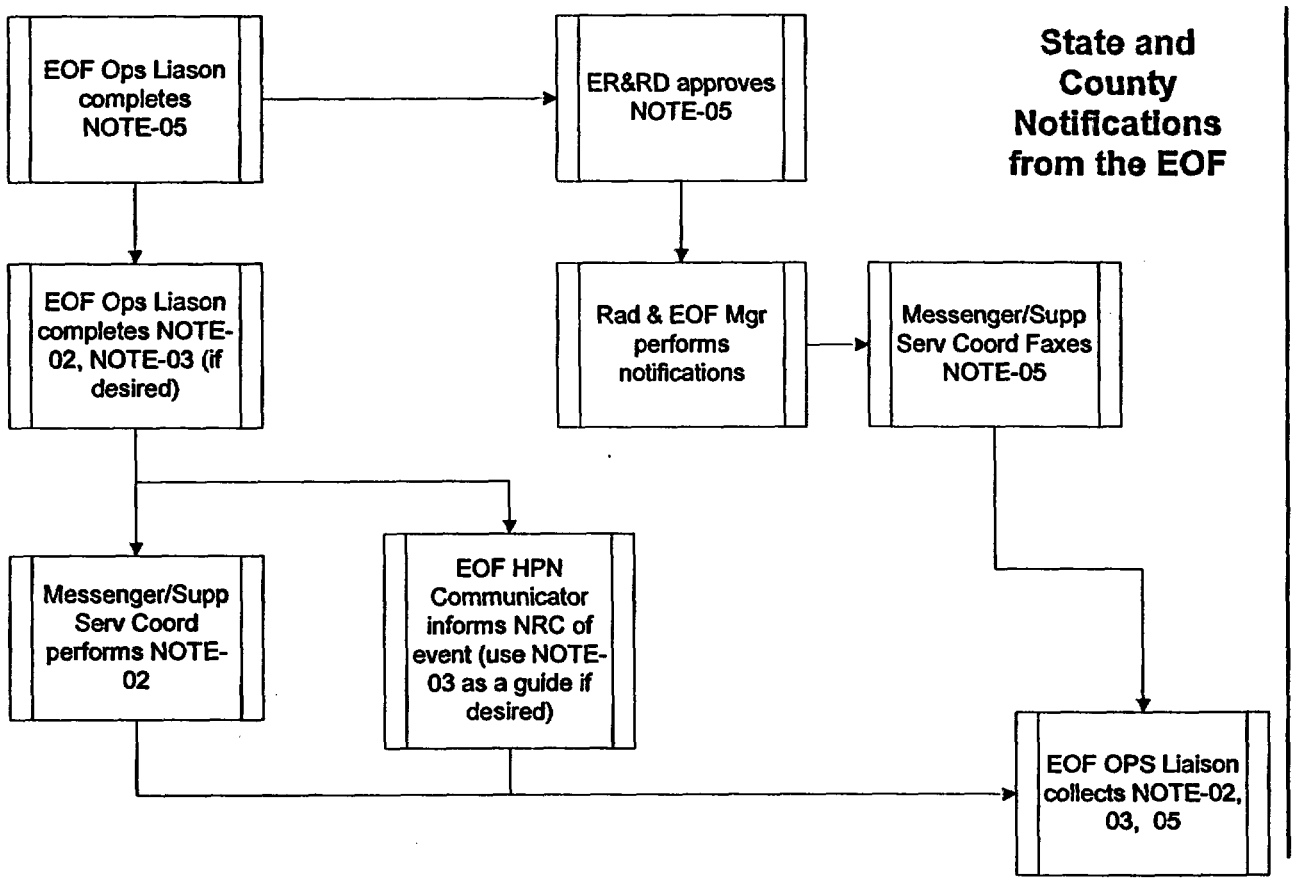
* - REFER TO ETB FOR QUALIFIED STAFF




**Initial State and County Notifications from the Control Room**




**State and County Notifications from the TSC**


EOF Ops Liason completes NOTE-05
ER&RD approves NOTE-05
State and County Notifications from the EOF
EOF Ops Liason completes NOTE-02, NOTE-03 (if desired)
Rad & EOF Mgr performs notifications
Messenger/Supp Serv Coord Faxes NOTE-05
Messenger/Supp Serv Coord performs NOTE-02
EOF HPN Communicator informs NRC of event (use NOTE-03 as a guide if desired)
EOF OPS Liaison collects NOTE-02, 03, 05

## OSC MINIMUM STAFFING LEVEL

| POSITION | 30 MIN | 60 MIN | REFERENCE |
|---|---|---|---|
| Operational Support Center Supervisor | 1 | | DAEC Plan |
| HP Supervisor | 1 | | DAEC Plan |
| Maintenance Supervisor | | 1 | DAEC Plan |
| Electrical and I&C Supervisor | | 1 | DAEC Plan |
| | | | |
| Health Physics Technicians | 5 | 4 | NUREG 0654 and DAEC Plan<br>1. Offsite Survey<br>2. Onsite Survey,<br>3. Inplant Surveys<br>4. Access Control/Dosimetry<br>5. Coverage for: Repair, Search&Rescue, First aid, Fire fighting.<br>6. Habitability |
| Mechanics | | 1 | NUREG 0654 and DAEC Plan |
| Electricians | 1 | 1 | NUREG 0654 and DAEC Plan |
| I & C Technicians | 1 | | NUREG 0654 and DAEC Plan |
| Chemistry Technicians | | 1 | NUREG 0654 and DAEC Plan |
| OSC Staff Personnel | 1 | 2 | NUREG 0654 and defined in the DAEC Plan. |

## IC/EM and MECHANICAL MAINTENANCE SUPERVISOR

The following checklist is available for use by the IC/EM and Mechanical Maintenance Supervisor or another individual, so designated, as an aid in ensuring that emergency response actions are completed.

| | ITEM |
|---|---|
| _____ 1. | Relocate magnetic nameplate to appropriate location on Emergency Assignment Staffing Board. |
| _____ 2. | Report to the OSC Supervisor. |
| _____ 3. | Plan work packages with assistance of engineering personnel in the TSC. |
| _____ 4. | Select personnel for repair teams appropriate to the work being conducted. Additional personnel can be obtained from the assembly areas. |
| _____ 5. | Conduct briefing (Electricians, I&C Technicians, and Mechanics) on work activities and ensure they have received a briefing from the HP Supervisor if appropriate, prior to their dispatch for repair activities. |
| _____ 6. | Ensure team status board is updated. |

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** EMERGENCY COORDINATOR

**EPIP FORM** TSC-01 **REVISION #:** 4

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.1, 'Determination of EAL's' |
| Section D, 'Emergency Classification System' | 1.2, 'Notification' |
| Section E, 'Notification Methods & Procedures' | 1.3, 'Plant Assembly and Accountability' |
| Section H, 'Emergency Facilities Staffing, Activation and Equipment' | 2.1, 'Activation & Operation of the OSC' |
| Section I, 'Accident Assessment' | 2.2, 'Activation & Operation of the TSC' |
| Section J, 'Protective Response' | 3.3, 'Dose Assessment & Protective Action' |
| Section M, 'Recovery and Reentry Planning and Post-Accident Operation' | 4.5, 'Administration of KI' |
| | 5.2, 'Recovery & Reentry' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position assumes command & control responsibility for the ERO from the OSM/OSS. Responsible for coordinating the total response effort of the ERO. Reports to the ER&RD who may assume some aspects of the emergency response effort if/when the EOF becomes operational.*

*Time constraints to keep in mind during the event:*

*15 minutes to declare an event once conditions are recognized*
*State & County notifications (EAL and PAR) – 15 minutes from event declaration or change*
*ENS Notified – As soon as possible but within 60 minutes of event declaration*
*ERDS activated – Within 60 minutes of initial event declaration*
*Accountability – Completed within 30 minutes of event declaration*
*Facility Activation within 30 minutes (30 minute positions filled or assigned)*

## ACTIVATION

___ Report to the TSC, sign in, acquire position badge and position specific manual. Utilize EC checklist, as a guide.

___ Report to the Control Room to receive a detailed turnover from the OSM. Reference form CR-04. Before returning to the TSC, complete all elements of the checklist including leaving an emergency message voicemail as described in CR-04.

___ Verify notifications and protective action recommendations are completed in accordance with EPIP 1.2, "Notifications"

___ If the Control Room is unable to perform or complete required notifications, verify that the required notifications are completed from the TSC. Notifications and PAR's must be completed within 15 minutes of event declaration. This includes initial declarations, upgrades, downgrades and cancellations.

___ Confer with the Tech & Eng Supervisor to determine if the TSC/OSC is activated. (NOTE: The facility is considered activated when all 30-minute ERO positions are filled or assigned.)

Document activation date: _____ time: _____

___ Relocate to the TSC and provide the TSC/OSC an initial briefing summarizing the event and setting priorities.

___ Confer with the Security and Support Supervisor on the status of plant accountability.

___ Inform the ER & RD of the operational status of the ERO and status of accountability.

## OPERATION

***At the discretion of the EC, the authority to dispatch rescue/repair teams may be delegated to the Tech & Engineering Supervisor and/or OSC Supervisor.***

*ON-GOING TASKS TO BE PERFORMED THROUGHOUT THE EVENT*

___ Periodically (at least every 30-minutes, or as conditions change) brief the TSC/OSC staff on the current status of the plant and response actions being taken to mitigate the event. The following information should be given as applicable, ensure to give the facility a 'heads-up' so conversations can cease:

- ___ Plant status
- ___ Significant changes or problems
- ___ Response actions in progress
- ___ Planned response actions
- ___ Habitability concerns
- ___ Check of Self-Reading Pocket Dosimetry (SRPD)
- ___ Reminder to keep extraneous conversations to a minimum
- ___ Reminder to use phonetic alphabet and 3-Part Communications

___ Direct the TSC Staff on applicable tasks to be carried out.

___ Direct the Site Radiation Protection Coordinator on applicable tasks to be carried out by the radiation protection staff.

___ Coordinate accident assessment and analysis efforts to determine the full scope and impact of the emergency.

___ Coordinate efforts to return the plant to, and maintain it in a safe, stable condition.

___ Apprise Company, local, State, and Federal officials and agencies of updated information pertaining to the emergency condition.

___ Provide periodic updates to local, State and Federal officials and agencies.

___ Provide accurate plant status information to the JPIC.

___ Classify/Reclassify the event as necessary. This responsibility **may not be delegated.**

___ Approve Protective Action Recommendations. This responsibility **may not be delegated.** (Ensure to include the SRPC when deciding on PARs)

___ Approve extensions on exposure limits for emergency workers. This responsibility **may not be delegated.**

___ Select and prioritize response actions to be pursued and ensure this information is transmitted to the OSC Supervisor.

___ Verify that the Security and Support Supervisor has arranged for continuous coverage by ERO personnel, for events of a protracted nature.

___ Update the ER & RD on plant status, response options in progress, protective action recommendations, etc.

If it is anticipated that escalation beyond the ALERT level will occur;

___ Authorize the OSC Supervisor to activate the ORAA (confer with the SRPC to ensure the radiological conditions will not have any impact) or the alternate ORAA.

___ Authorize the evacuation of all non-essential personnel, as necessary.

___ Authorize the OSC Supervisor to activate the Offsite Radiological and Analytical Laboratory (ORAL) and Offsite Decontamination Facility (ODEF).

___ If the TSC becomes uninhabitable, relocate the following TSC positions to the Control Room, (the EC may add to this list, or remove some from this list as conditions dictate). All other TSC staffing may be relocated to other locations deemed appropriate by the EC (if conditions permit, the remaining TSC personnel would relocate to the EOF, and OSC personnel would relocate to the ORAA).

___ Emergency Coordinator

___ TSC-Ops Supervisor

___ SRPC

___ ENS Communicator

___ Security & Support Supv

___ Rx Eng

___ MIDAS Operator

___ Admin Supervisor

## EOF ACTIVATION

Upon activation of the EOF, facilitate the transfer of the following responsibilities to the ER & RD. Use TSC-02 as a guide to facilitate transfer (fax completed form to the EOF).

___ Offsite communications.

___ Notifications to local, State and Federal agencies (note: TSC ENS Communication will remain in the TSC).

___ Dose projection and dose assessment activities.

___ Development and transmittal of PAR's.

___ EAL upgrading, downgrading or cancellation.

___ Recovery activities.

## NRC SITE TEAM

Brief the NRC Site Team upon arrival on the following topics:

___ Event sequence.

___ Plant status, major problems and corrective actions being taken or planned.

___ Dose projection results and PAR's.

- ___ Onsite radiological concerns
- ___ Offsite radiological concerns

- ___ Meteorological conditions
- ___ EPZ implemented actions

___ Prognosis of the event.

___ Potential need for Tech. Spec./license deviations.

## RECOVERY

___ Coordinate with the ER & RD to initiate recovery planning.

___ Deactivate emergency response centers.

___ Direct the Tech & Engineering Supervisor to prepare a written summary upon downgrading from an ALERT or greater. Topics to be covered should be summary of the event, response actions taken or in progress, significant problems which require further evaluation before resolution.

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** SITE RAD PRO COORDINATOR

**EPIP FORM** TSC-03 **REVISION #:** 2

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.3, 'Plant Assembly and Accountability' |
| Section J, 'Protective Response' | 2.1, 'Activation & Operation of the OSC' |
| Section K, 'Radiological Exposure Control' | 2.2, 'Activation & Operation of the TSC' |
| Section L, 'Medical and Public Health Support' | 3.3, 'Dose Assessment & Protective Action' |
| Section M, 'Recovery and Reentry Planning and Post-Accident Operation' | 4.5, 'Administration of KI' |
| | 5.2, 'Recovery & Reentry' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for all on-site radiological activities and protection. Also responsible for the On-Site Field Team and the Off-Site Field Teams until the EOF relieves the SRPC of Off-Site Field Team responsibility. Also, assist the EC in making PARs.*

## ACTIVATION

___ Report to the TSC.

___ Swipe in the emergency accountability card reader, sign in on the Emergency Assignment Staffing Board, acquire the Site Radiation Protection Coordinator badge.

___ Locate and utilize the Site Radiation Protection Coordinator Position Specific Manual and checklist.

___ Verify the following positions have been staffed.

- ___ MIDAS Terminal Operator (Chem Tech) (shared resource with the EOF)
- ___ Radiological Support Staff Member
- ___ Field Team Director - Onsite
- ___ Field Team Director - Offsite
- ___ NRC HPN Communicator

___ Report staffing results to the Tech & Eng Supervisor

## OPERATION

___ Verify MIDAS is operable.

___ Verify TSC & OSC is habitable.

___ Verify EC or Tech & Eng Supervisor initiates a PA announcement with regard to facility habitability.

___ Verify operational status of SBGT Trains, inform MIDAS Operator of status.

___ Verify reactor trip. Time_____ (All rods full in)

___ Verify Radiological Support Staff person is acquiring ARM data.

___ Advise EC of dose extensions. (Only EC may authorize dose extensions)

___ Review MIDAS projections every 15-30 minutes and issue Protective Action Recommendations (PAR's) to the EC, as necessary.

___ Verify Linn Co., Benton Co., and the State of Iowa EMA's are notified of any PAR changes within 15 minutes of EC approval. The usual path for those notifications once the TSC is activated, is through the Admin Supervisor.

___ Verify MIDAS information is consistent with data obtained from the Offsite Field Monitoring Teams.

___ Authorize the administration of KI as neccesary. inform the EC.

MEDICAL

___ Name of Injured: _____

___ Badge: _____

___ Location and Contamination Levels: _____
_____

___ Verify hospital notified to receive contaminated/injured person

___ Hospital name: _____ Time: _____

___ Verify Medical Consultant notified of contaminated/injured person (telephone numbers in the ETB).

___ Personal information and condition of contaminated/injured person provided to the EC.

___ Verify follow-up of patient's condition.

___ Verify follow-up information provided to the EC.

## RADIOLOGICAL MONITORING TEAMS

___ Provide information regarding the projected or ongoing release to the HP Supervisor for dissemination to the Onsite and /or Offsite Radiological Monitoring Teams prior to dispatch.

___ Verify dispatch of the onsite field team. Time of dispatch:_____

___ Assume control of the onsite team upon being advised of their readiness for dispatch by the HP Supervisor.

___ Verify dispatch of the Offsite Field Team A. Time of dispatch:_____

___ Verify dispatch of the Offsite Field Team B. Time of dispatch:_____

___ EC informed of dispatch of Onsite and Offsite Field Teams.

___ Assume control of the offsite teams upon being advised of their readiness for dispatch by the HP Supervisor.

___ Transfer control of the offsite teams to the Radiological Assessment Coordinator (RAC)in the EOF. Time: _____

## ORAA ACTIVATION

___ Review current MIDAS projection for direction of plume travel prior to activation of ORAA.

___ Determine travel route for staff and evacuees.

___ Verify EC informed of impending ORAA activation and travel route.

___ Authorize OSC Supervisor to activate the ORAA. Time:_____

___ Verify HP Supervisor informed of impending ORAA activation.

___ Verify ORAA operational. Time:_____

___ Verify plume direction periodically, relocate ORAA personnel to the ORAL/ODEF as necessary.

## ORAL/ODEF ACTIVATION

___ Authorize OSC Supervisor to activate the ORAL/ODEF. Time:_____

___ Verify HP Supervisor informed of impending ORAL/ODEF activation.

___ Verify ORAL/ODEF operational. Time:_____

___ Verify EC informed the ORAL/ODEF is operational.

## PASS SAMPLE (as necessary or requested)

___ Verify PASS sample initiated

- ___ Large Volume
- ___ Small Volume
- ___ Offgas Stack
- ___ Containment Atmosphere
- ___ Reactor Building Vents
- ___ Turbine Building Vents

## RECOVERY/REENTRY

___ Assist the EC is recovery/reentry activities as requested.

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** TECH & ENG SUPERVISOR

**EPIP FORM** TSC-04 **REVISION #:** 4

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.3, 'Plant Assembly and Accountability' |
| Section H, 'Emergency Facilities Staffing, Activation and Equipment' | 2.1, 'Activation & Operation of the OSC' |
| Section J, 'Protective Response' | 2.2, 'Activation & Operation of the TSC' |
| Section M, 'Recovery and Reentry Planning and Post-Accident Operation' | 4.3, 'Rescue and Emergency Repair Work' |
| | 5.2, 'Recovery & Reentry' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for staffing the TSC. Once the TSC has become operational, then the Tech & Eng Supv becomes responsible for the Engineering Staff assembled in the ERO*

*Time constraints to keep in mind during the event:*

*Facility Activation within 30 minutes (30-minute positions filled or assigned)*
*Accountability – Completed within 30 minutes of event declaration*
*ERDS activated – Within 60 minutes of initial event declaration*

## ACTIVATION

_____ Activate the TSC (Within 30 minutes of ALERT Declaration)

- Alert _____ declared @ _____
- Verify all 30 minute responders are filled using form TSC-29.
- TSC Declared Activated @ _____

_____ Assist EC in making the TSC Operational

- Inform the EC that 30-minute responders are staffed and the TSC is Activated. (The TSC is operational when the EC arrives and assumes control of the facility.)
- Verify Accountability is complete. Completed @ _____
- Brief the TSC/OSC via the PA system.
  - *Status of the Plant*
  - *Accountability*
  - *Status of TSC and OSC*
  - *Habitability of TSC and OSC*
  - *Immediate Response Actions In Progress*
  - *Reminder to periodically check SRD's.*
- Verify ERDS is activated within 60 minutes of ALERT declaration. Normally performed by Information Services, the Rx Engineer is the backup for this function. Activated @ _____
- Verify Information Services synchronizes clocks in the TSC and the Electronic Status Board with PPC time.
- Verify the 60-minute response TSC positions are staffed within 60 minutes of ALERT Declaration.
- Verify the other TSC positions are staffed. The expectation is for them to be staffed within 60-minutes of ALERT Declaration.
- Verify communications are established with the CR, the OSC, the ENS and the HPN. (NOTE: Allow an appropriate time to allow for the CR to setup their communications, i.e., let the CR initiate the communication link to the TSC. The TSC may initiate the communication link with the CR if the CR has not initiated the communication link within ~20-minutes of facility activation.)

- Ensure all of the TSC Supervisors are setting up their area(s) and will inform you of any problems.
- Inform the TSC Communicator of the TSC/OSC activation time, and accountability completion time for entry onto the ESB
- Verify staffing for ERO Engineering Positions

  _____ Electrical and I&C Engineer

  _____ Mechanical Engineer
- Turnover operation of the TSC to the EC (@_____).

## OPERATION

_____ Coordinate with the OSC Supv and TSC Ops Supv in establishing priorities and Repair Teams as necessary.

_____ Assign a staff Engineer to maintain the priority list current on the priority board and to maintain the signs relating to EAL severity levels (i.e., Alert, General Emergency, etc.).

_____ Assign a staff Engineer to maintain a running list of degraded equipment on the 'printing' dry-erase board for use when in the recovery/reentry phase.

_____ Obtain feedback from the OSC Supervisor on the completion of priority task items.

_____ Verify Emergency Team Data Sheets are filled out for each priority task item.

_____ Ensure that the engineering staff work as a team with the OSC Supervision to resolve/complete the priority task items.

_____ Assign specific engineers to resolve/complete priority task items.

_____ Verify all completed Emergency Team Data Sheets are returned to the TSC and collected.

_____ Generate an AR as necessary to document situations such as:

- QL1 equipment repaired with non-QL1 parts,
- Plant equipment in an unforeseen condition,
- Lifted leads and/or electrical jumpers installed and/or removed,

- Any other issue that must be documented to ensure it is returned to 'normal' when in the recovery phase.

## RECOVERY

_____ Assist the EC in developing a recovery/reentry plan as necessary

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** SECURITY AND SUPPORT SUPERVISOR

**EPIP FORM** TSC-06 **REVISION #:** 2

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.2, 'Notification' |
| Section F, 'Emergency Communications' | 1.3, 'Plant Assembly and Site Evacuation' |
| Section J, 'Protective Response' | 2.1, 'Activation and Operation of the OSC' |
| | 2.2, 'Activation and Operation of the TSC' |
| | 2.4, 'Activation and Operation of the ORAA' |
| | 2.8, 'Security Threat' |
| | 4.2, 'First Aid, Decontamination and Medical Support |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for security related activities at DAEC, and for the TSC Support Staff (Admin Supv, Clerical support, Information Services Reps, Offsite Communicator, Warehouse Supv).*

## ACTIVATION

___ Report to the TSC, swipe into accountability reader, sign in, acquire position badge and handbook. Utilize checklist, as a guide.

___ Call out additional Security Force personnel, as required.

___ Verify the Emergency Accountability Card Readers have been toggled **"ON"** by the SAS or CAS Operator.

___ Verify accountability is in progress or completed within 30 minutes of event declaration. (Ask the TSC Ops Liaison when the event was declared via NOTE-05)

Event Declaration: Time _____

Accountability Complete: Time _____

___ Prior to dispatching the Security Force Member, obtain concurrence from the HP Supervisor. Verify the dispatch of Security Force Members to tour the buildings outside the Protected Area, excluding the Badging Center, Training Center, and PSC; and direct or escort individuals found, to the Security Control Point (SCP).

___ Limit access into the facility to only those individuals required for emergency response.

___ Assign personnel to maintain access control at the following locations:

___ Warehouse

___ Security Ingress

___ Dispatch a Security Force member to retrieve the accountability list at the Plant Support Center.

___ Dispatch a Security Force Member to retrieve the accountability list at the Training Center.

___ Dispatch a Security Force Member to retrieve the accountability list at the Badging Center.

___ Verify the dispatch of a Security Force Member to perform the following:

___ Unlock the Emergency Lockers located in OSC Staging Area. Locker keys are located in the key locker in the Security Control Point. Duplicate keys are located in the Secondary Alarm Station (SAS).

> **NOTE**
>
> Simulate the lineup of the TSC Emergency Ventilation System during **drills and exercises** in order to minimize ventilation run-time unless specifically told to perform the lineup by the TSC Lead Controller.

___ Lineup TSC Emergency Ventilation System per OI 729.2.

___ Log startup time in TSC HVAC Filter Unit Operating Log located in TSC Ventilation Room.

___ Relocate emergency equipment lockers in the TSC HVAC Equipment Room to the OSC Staging Area.

___ Check with HP Supervisor as to plant radiological status before dispatching a Security Force Member with two access authorization lists to the site boundary to control access to the DAEC.

___ Coordinate with local law enforcement agency personnel who establish a roadblock at the intersection of Palo Marsh Road and DAEC Road to authorize access to the site. A list of employees should be provided to local law enforcement personnel.

## OPERATION

___ Verify the Security Officers posted in the powerblock have their names posted on the Repair Team Status Board to remind the OSC to keep them informed of rad conditions.

___ Ensure the Admin Supervisor generates a TSC shift rotation schedule, and provide to the EC.

___ Provide assistance, as required, in completing the required Emergency Response Notifications.

___ Authorize deviations from standard security practices, as appropriate, to promote rapid response by Emergency Response Organization personnel.

___ Coordinate with the HP Supervisor and assign qualified first aid personnel as required.

___ Advise the Site Radiation Protection Coordinator and/or the HP Supervisor when personnel injuries occur.

## ORAA ACTIVATION

Upon being advised that activation of the ORAA is planned; refer to EPIP 2.4, "Activation and Operation of the ORAA", and:

___ Assign a Security Force Member to the ORAA Supervisor.

___ Advise the local law enforcement agency representative at the intersection of Palo Marsh Road and DAEC Road of the planned evacuation.

## SITE EVACUATION

___ If evacuation of the site is required, including the SCP and CAS, refer to EPIP 2.4 and relocate badge boards, dosimetry, all 800 mHz and VHF radios, access authorization lists and keys to the ORAA or other site as determined by management.

## RECOVERY

Provide assistance, as required, in deactivating the Emergency Response Organization including:

___ Secure the TSC HVAC System per OI 729.2. Log the shutdown time in the TSC HVAC Filter Operating Logbook.

___ Relock the TSC Emergency Locker when equipment and supplies have been returned.

___ Relocate the Emergency Lockers in the OSC Staging Area when equipment and supplies have been returned to the TSC HVAC Emergency Room.

___ Collect all documentation and provide to the Clerical Staff in the TSC.

# DAEC EMERGENCY RESPONSE ORGANIZATION
## POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** ADMINISTRATIVE SUPERVISOR

**EPIP FORM** TSC-07 **REVISION #:** 2

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

### REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 1.2, 'Notification' |
| Section E, 'Notification Methods and Procedures' | 2.2, 'Activation and Operation of the TSC |
| Section F, 'Emergency Communications' | 1.4, 'Release of Emergency Related Information' |

### BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for the clerical staff assigned to the TSC. Primary duties include assisting in facility activation, assisting the ERO with administrative functions, creating a 24-hour schedule for the TSC/OSC, and for collecting/filing all required documentation. This position is also responsible for communicating EAL/PAR declarations or changes to the State of Iowa EMD and the Linn and Benton County Emergency Responders and with ensuring they remain cognizant of on-going efforts by means of periodic updates on status.*

## ACTIVATION

___ Report to the TSC, swipe into accountability reader, sign in, acquire position badge and handbook. Utilize checklist, as a guide.

___ Call out additional clerical support personnel, as required.

___ Verify TSC clerical support personnel are locating and utilizing their checklists to set up the TSC.

___ Verify TSC clerical support personnel are wearing dosimetry.

___ Verify the TSC/OSC PA system is operational.

- ___ Transmitter plugged in to the power strip.
- ___ Place the "operate switch" on the transmitter to the OPERATE position.
- ___ Microphone (preferably the Lapel mic) given to the EC.
- ___ PA System turned on (located in Radio Room in TSC)

___ Acquire phone headset from Emergency Equipment Locker #9.

___ Plug headset into Meridian phone.

## OPERATION

___ Verify clerical support staff are providing necessary support to the TSC staff, assist as necessary.

___ Utilizing the ETB, identify for the Security and Support Supervisor, personnel names and positions for second and third shifts. These lists should include both the TSC and OSC positions and a MIDAS operator (Chem Tech) for the EOF.

___ Verify adequate administrative supplies are provided to all TSC staff.

**NOTE**

If you are communicating with anyone over the phone during drills and exercises, it is **VERY IMPORTANT** that you begin and end **ALL** communications with **"THIS IS A DRILL"**

___ Log all pertinent information acquired from the EOF and JPIC on log sheets.

___ **Prior to the EOF assuming command and control:** Periodically (approximately every hour or as conditions change) brief the State and County's of current plant status, using the microwave "Red" phone system*

**NOTE**

To use the Microwave "Red" Phone system (Ref. EPIP 1.2)

- Press 9999
- When everyone is on the line, press #### to stop the ringing
- Read NOTE-05 or other information as applicable

___ Inform the Iowa EMD and Linn/Benton County of EAL/PAR declarations or changes by reading the information provided on NOTE-05 as filled in by the TSC Ops Liaison and approved by the Emergency Coordinator. **NOTE: DO NOT** read this information unless it has been approved by the Emergency Coordinator.

- Perform a "peer check" and verify the form is filled out correctly before proceeding with the Notification phone calls.
- Read NOTE-05 as follows:

1. Perform an initial roll-call, even if you heard everyone state their name when they answered the phone. The "message initiated" line on NOTE-5 should note the time the first State or County representative came onto the line. **NOTE:** The 15 minute clock starts with the EAL/PAR declaration and stops when you get the first State/County responder on the line. It is very important that the time for "message initiated" is correct.
2. State your name and that you are going to give them an update or EAL/PAR declaration, whatever is applicable.
3. Starting with number 1, read in the following manner (for example): "1 alpha actual, 2 bravo TSC, 3 charlie Site Area Emergency, ... etc."

4. State your name and Facility again
5. Ask if there are any questions
6. Perform a final roll call and get everyone's initials. Enter the time the you have completed reading the message on the appropriate line in the "Message Transmitted By:" box.
7. Fax page 1 of NOTE-05 to the parties concerned as a backup to your phone call
8. Give NOTE-05 back to the TSC-Ops Liaison.

## RECOVERY

___ Collect all documentation generated during the event for filing.

___ Establish long term personnel support for the TSC.

___ Assist the Security and Support Supervisor with Recovery/Reentry efforts as requested

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** TSC **ERO POSITION:** MATERIAL MANAGEMENT SUPERVISOR

**EPIP FORM** TSC-08 **REVISION #:** 2

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 2.2, 'Activation and Operation of the TSC' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is responsible for assisting the ERO in the procurement of materials and supplies necessary to support the ERO in returning the plant to a stable condition. The Materials Management Supervisor (or Warehouse Supervisor) is not needed during the early stages of an event, or at all if procurement needs do not arise. Site staff have the capability of procuring their own parts from the Warehouse in an emergency. Procurement needs tend to arise when activities are being taken to recover the plant, and as such, the Warehouse Supervisor shall be called in the support the need as desired.*

## ACTIVATION

___ Report to the TSC, swipe into accountability reader, sign in, acquire position badge and handbook. Utilize checklist, as a guide.

If at an Alert or NOUE:

___ Notify the Security and Support Supervisor of the current phone number to be reached at.

___ Relocate to normal work area in the warehouse.

## OPERATION

___ Procure materials and supplies necessary for the continued operation of the Emergency Response Organization.

___ Expedite the procurement of materials and supplies necessary for returning the plant to a safe and stable condition.

## RECOVERY

___ Support any material requests necessary for recovery activities.

# DAEC EMERGENCY RESPONSE ORGANIZATION
# POSITION SPECIFIC CHECKLIST

**FACILITY:** CR **ERO POSITION:** CONTROL ROOM COMMUNICATOR

**EPIP FORM** TSC-10 **REVISION #:** 4

**NAME:**_____ **DATE:**_____

**NOTE**
This checklist is intended to be an aid in your response to the ERO. Reference the applicable Emergency Procedures often, as time permits, to ensure compliance.

## REFERENCES

| DAEC EMERGENCY PLAN | DAEC EPIP's |
|---|---|
| Section B, 'Emergency Response Organization' | 2.2, 'Activation and Operation of the TSC'<br><br>2.5, 'Control Room Emergency Response Operation' |

## BASIC PURPOSE OF THIS ERO POSITION:

*This position is the main communication link to the TSC. This position also enters information onto the Electronic Status Board regarding Control Room activities and selected Rad Monitor readings.*

## ACTIVATION

___ Report to the TSC, swipe into accountability reader, sign in, acquire position specific manual and position badge. Utilize checklist, as a guide.

___ Report to the Control Room.

___ Locate and utilize the Control Room Communicator position specific manual and checklist.

___ Acquire phone headset, plug headset into phone.

___ Place "STA Desk (X7145) Portable Phone Switch" to ON.

___ Verify communications equipment operational with the TSC.

___ Log onto ESB, using EPIP form, TSC-43; ensure PC clock is in-synch with the PPC time.

___ Inform the OSM of your ready status.

## OPERATION

___ Log all pertinent information acquired from the TSC onto the log sheet.

___ Log pertinent Control Room information onto the ESB, do not place information onto the ESB detailing what other facilities are doing, those facilities will provide that information.

Pertinent information is, at a minimum, the following:

- Summary of crew briefings
- Status of EOP and/or AOP activities
- Status of Control Room personnel in the plant prior to them being under OSC control

Selected Rad Monitor data (RR-4448 A and RR-4448 B) every 30-minutes or as conditions change.

- Other information as necessary to ensure the ERO stays current with Control Room activities.

___ Relay any instructed information back to the TSC, ensure to use 3-part communication.

# RADIOLOGICAL SUPPORT STAFF CHECKLIST



## TSC ACTIVATION

___ Report to the TSC.

___ Swipe in the emergency accountability card reader, sign in on the Emergency Assignment Staffing Board

## TSC STAFFING

___ Locate the Radiological Support Staff Position Specific Manual and utilize the checklist. Locate the Rad Data Communicator badge contained within the Position Specific Manual.

## OPERATION

___ Obtain Area Radiation Monitor data via SPDS from the Tech & Analysis Engineer.

___ Post ARM data on the floor plan map located in the TSC.

___ Continuously update floor plan map with the most current ARM data obtained, at least every 15 minutes.

___ Continuously monitor data for trends or changes.

___ Alarming ARM data may be provided to the TSC Communicator for display on the Electronic Status Board.

___ Notify the SRPC immediately of any changes in ARM data.

___ Notify the HP Supervisor immediately of any changes in ARM data.

___ Assist the MIDAS Operator with any dose projection operations.

___ After the EOF takes control of dose projections, print out a copy of each dose projection run calculated by the EOF from the TSC Seiko color printer as directed by the SRPC.

___ Provide any assistance requested by the SRPC.

## RECOVERY

____ Provide any assistance requested by the SRPC.

# TECHNICAL & ANALYSIS ENGINEER CHECKLIST

## TSC ACTIVATION

____ Report to the TSC.

____ Swipe in the emergency accountability card reader, sign in on the Emergency Assignment Staffing Board, acquire the Technical & Analysis Engineer badge.

## TSC STAFFING

____ Locate and utilize the Technical & Analysis Engineer handbook and applicable checklist.

____ Locate and utilize the Safety Analysis Engineer Technical Support Guideline (TSG) handbook.

____ Locate and utilize the SPDS Operator Technical Support Guideline (TSG) handbook.

## OPERATION

____ Participate as member of the TSC Accident Management Team to assess plant status, the effectiveness of control room actions, prioritization of actions and development of accident mitigation strategies.

____ Perform trending/forecasting of key plant parameters.

____ Reference probabilistic safety assessment studies for insights into expected plant response.

____ Determine availability of key plant systems and equipment used in EOPs/SAGs.

____ Evaluate the operability and reliability of instrumentation used to determine key plant parameters in EOPs/SAGs.

____ Solicit input from the Accident Management Team and the TSC ERO staff as to which SPDS screens would be most useful to display.

____ Recall historical plot trends in order to establish a basis for comparison.

____ Track assigned Point Value Displays.

## RECOVERY

____ Complete recovery assignments.

# TSC OPERATIONS SUPERVISOR CHECKLIST

## TSC ACTIVATION

___ Report to the TSC.

___ Swipe in the emergency accountability card reader, sign in on the Emergency Assignment Staffing Board, acquire an SRD.

## TSC STAFFING

___ Locate and utilize the TSC Operations Supervisor Position Specific Manual and applicable checklist. Position badge should be in book.

## OPERATION

___ Direct the TSC Accident Management Team, (Rx Eng, TSC Communicator, Technical & Analysis Eng, TSC-Ops Liaison), in assessing plant status, the effectiveness of Control Room actions, prioritization of actions, and development of accident mitigation strategies.

___ Ensure the Operation Shift Manager (OSM)/Control Room Supervisor (CRS) is kept informed of TSC and OSC activities and is aware of the TSC/OSC priorities, and status of Repair Team activities.

___ Provide input and assistance to the Emergency Coordinator and to the OSM/CRS on the following:

- Plant conditions that caused any EAL classification
- RPV & Containment status, current trends, prognosis
- Status of significant plant systems
- Operations that could affect the plant
- Accident mitigation objectives, strategies, and priorities

___ Ensure the trending and status boards are kept current by the TSC Accident Management Team.

___ Advise the TSC and OSC on any matter that pertains to the operation of the plant.

___ Direct the TSC Ops Liaison to draft forms NOTE-01, 02, 03, 04, 05, and 06 when necessary.

## RECOVERY

___ Assist the TSC with operations concerns during recovery discussions.

# IC/EM ENGINEER Checklist

## TSC ACTIVATION

___ Report to the TSC.

___ Swipe in the emergency accountability card reader, sign in on the Emergency Assignment Staffing Board, acquire the IC/EM Engineer badge.

## TSC STAFFING

___ Locate and utilize the IC/EM Engineering Position Specific Manual and applicable checklist.

## OPERATION

___ Standby for any assignments from the Technical & Engineering Supervisor pertaining to plant engineering concerns.

___ Establish any necessary external vendor contacts for area of expertise.

___ Assist applicable Supervisors in the OSC with the development of plans to resolve/complete priority task items.

___ Participate with other discipline engineers in order to develop plans to resolve/complete priority task.

___ If necessary complete Emergency Team Data Sheets for assigned priority task items.

___ Develop modification packages, including prints, installation instructions and operating limitations .

___ Determine availability of existing hardware at the DAEC, or at other NMC or Alliant Energy facilities.

___ Modify DCP's as necessary, to enable use of existing hardware.

___ Propose modifications and develop engineering justifications.

___ Assist the Technical & Engineering Supervisor in the prioritization of response actions which, if implemented, would mitigate the event, restore the plant to a safe condition, and minimize or stop any radiological release in progress.

___ Evaluate trends and provide recommendations to the Technical & Engineering Supervisor.

___ Log major activities.

## RECOVERY

___ Complete recovery assignments.

## TSC MINIMUM STAFFING LEVEL

| POSITION | 30 MIN | 60 MIN | REFERENCE |
|---|---|---|---|
| Emergency Coordinator | X | | NUREG 0654 and DAEC Plan |
| Site Rad Protection Coordinator | X | | NUREG 0654 and DAEC Plan |
| Reactor Engineer | X | | NUREG 0654 and DAEC Plan |
| TSC Communicator | X | | NUREG 0654 and DAEC Plan |
| CR Communicator | X | | NUREG 0654 and DAEC Plan |
| Security & Support Supervisor | X | | DAEC Plan |
| Tech & Eng Supervisor | X | | DAEC Plan |
| Mechanical Engineer | | X | NUREG 0654 and DAEC Plan |
| Electrical and I&C Engineer | | X | NUREG 0654 and DAEC Plan |
| NRC-ENS Communicator | | X | NUREG 0654 and DAEC Plan |
| NRC-HPN Communicator | | X | NUREG 0654 and DAEC Plan |
| TSC Operations Supervisor | | X | DAEC Plan |
| Admin Supervisor | | X | DAEC Plan |

**MIDAS Operator will be expected in the TSC however that position is assigned and staffed through the OSC. The MIDAS Operator is not needed for the TSC to meet minimum staffing requirements.

# FIELD TEAM LOG

DATE: _____

| Time | Team | Message | Location | Open Window mR/hr | Closed Window mR/hr | Air Sample µCi/cc |
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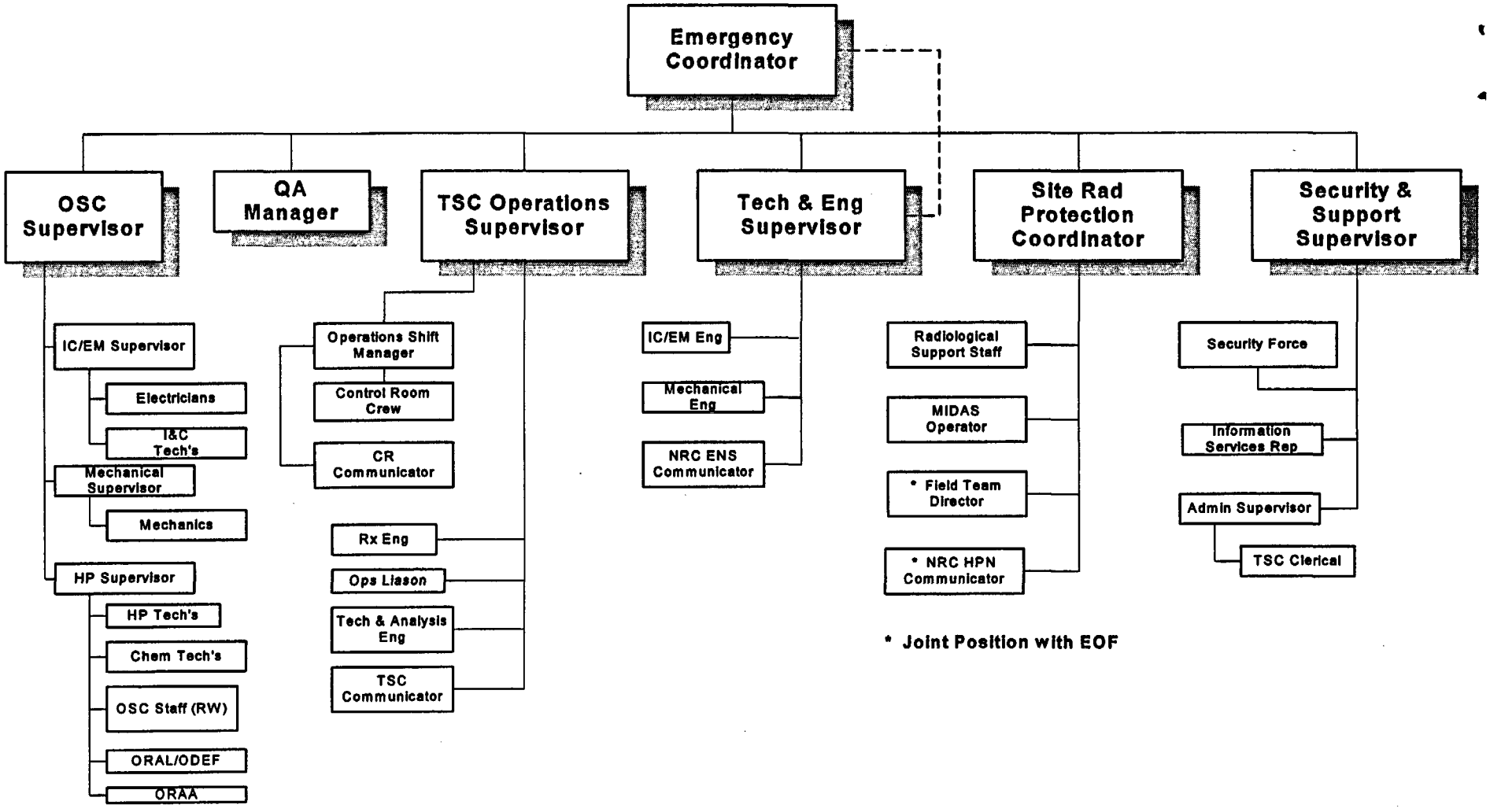
# TSC ORGANIZATION
typical