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CALLAWAY PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE
EIP-ZZ-C0010
EMERGENCY OPERATIONS FACILITY OPERATIONS

RESPONSIBLE DEPARTMENT EMERGENCY PREPAREDNESSPROCEDURE OWNER S. J. CrawfordWRITTEN BY S. J. CrawfordPREPARED BY S. J. CrawfordAPPROVED BY Warren A. WittDATE ISSUED 9-14-01

This procedure contains the following:

Pages	<u>1</u>	through	<u>6</u>
Attachments	<u>1</u>	through	<u>7</u>
Tables	<u> </u>	through	<u> </u>
Figures	<u> </u>	through	<u> </u>
Appendices	<u> </u>	through	<u> </u>
Checkoff Lists	<u> </u>	through	<u> </u>

This procedure has checkoff list(s) maintained in the mainframe computer.Conversion of commitments to TRS reference/hidden text completed by Revision Number:Non-T/S Commitments 018

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EMERGENCY OPERATIONS FACILITY OPERATIONS

1 PURPOSE AND SCOPE

- 1.1 The purpose of this procedure is to provide guidance to Emergency Response Personnel who report to the Emergency Operations Facility (EOF) and Backup EOF (BEOF).

2 RESPONSIBILITIES

2.1 RECOVERY MANAGER (RM)

- 2.1.1 The Recovery Manager is responsible for ensuring that the EOF/BEOF becomes operational after notification of an ALERT, SITE or GENERAL EMERGENCY classification and has overall command and control of the entire Ameren-UE Emergency Response Organization. Duties include the following: (COMN 3361, 3415)

<p><u>NOTE:</u> The responsibilities that the RM may delegate are indicated with an asterisk (*).</p>

- 2.1.1.1 * Establishing and maintaining communications with the Emergency Coordinator.
- 2.1.1.2 * Requesting off-site support (i.e., NSSS, A/E, INPO, Federal, State and Local).
- 2.1.1.3 * Ensuring responsibility for communications with off-site agencies is transferred from the Control Room to the EOF Emergency Response Organization (excluding NRC ENS communications).
- 2.1.1.4 Authorizing notifications to off-site agencies.
- 2.1.1.5 Assuming responsibility from the Control Room for making Protective Action Recommendations.
- 2.1.1.6 * Maintaining command and control over personnel in the EOF and providing considerations necessary for their safety.
- 2.1.1.7 * Ensuring coordinated emergency response among Ameren UE and off-site agencies

- 2.1.1.8 Authorizing personnel exposure in excess of 10CFR20 limits (the Emergency Coordinator also has this authority).
- 2.2 PROTECTIVE MEASURES COORDINATOR (PMC)
 - 2.2.1 The PMC reports to the RM and is responsible for formulating Protective Action Recommendations and assisting the RM, State and Federal Officials in the interpretation of any plant related data.
- 2.3 PLANT ASSESSMENT COORDINATOR (PAC)
 - 2.3.1 The PAC reports to the PMC and reviews plant conditions and EALs to verify the adequacy of the existing Protective Action Recommendations (PARs) and assists in formulating new PARs when necessary.
- 2.4 PLANT ASSESSMENT STAFF
 - 2.4.1 The Plant Assessment Staff reports to the PAC and is knowledgeable in plant equipment, systems, and operations. They may provide additional technical expertise while maintaining status boards displaying plant conditions.
- 2.5 DOSE ASSESSMENT COORDINATOR (DAC)
 - 2.5.1 The Dose Assessment Coordinator reports to the PMC (or the RM if the PMC has not arrived) and is responsible for providing dose projection calculations based on radiological effluent monitors and field data. The DAC directs Field Monitoring Teams (FMTs), reviews effluent based EALs and assists the PMC in formulating Protective Action Recommendations. (COMN 3375)
- 2.6 DOSE ASSESSMENT STAFF
 - 2.6.1 The Dose Assessment Staff reports to the DAC and is responsible for FMT communications and updating radiological status boards. (COMN 3355)
- 2.7 FIELD MONITORING TEAMS (FMTs)
 - 2.7.1 Field Monitoring Teams are dispatched by the DAC and are responsible for taking direct radiation measurements and collecting air, soil, water and vegetation samples.
- 2.8 LOGISTICAL SUPPORT COORDINATOR (LSC)
 - 2.8.1 The LSC reports to the RM and is responsible for contracting with vendors for engineering services, materials, and services needed for emergency mitigation and restoration. The LSC also provides administrative and logistical support to the Emergency Response Organization (ERO).

2.9 LOGISTICAL SUPPORT STAFF

2.9.1 The Logistical Support Staff reports to the LSC and is responsible for the development of specifications for repair parts, equipment, and services, locating materials and services needed, and expediting their delivery to the site. They may initiate purchase orders, contracts for services, or use whatever procurement means approved by the RM to obtain goods and services to assist in mitigation and recovery of this situation. The Logistical Support Staff also provides administrative support to the EOF Emergency Response Organization.

2.10 OFF-SITE LIAISON COORDINATOR (OSL)

2.10.1 The OSL reports to the RM and assumes off-site notification responsibilities from the Communicator in the Control Room. The OSL is also responsible for keeping off-site authorities up-to-date regarding on-site emergency response activities, receiving responding representatives from off-site agencies, assisting in meeting their communications and logistic needs, and other duties as assigned by the RM. (COMN 3329)

2.11 EOF COMMUNICATORS

2.11.1 The EOF Communicators report to the Off-site Liaison Coordinator. EOF Communicators transmit PARs and emergency notification updates to State and Local agencies and other off-site authorities as directed by the Off-Site Liaison Coordinator.

3 INITIATING CONDITIONS

This procedure is initiated to startup the Emergency Operations Facility upon declaration of an ALERT or higher emergency classification. The EOF ERO may also be activated at the discretion of the EC for any classification.

4 PROCEDURE

4.1 STARTUP

- 4.1.1 Staff members arriving at the EOF are responsible for signing in with name and badge number on the facility sign-in board.
- 4.1.2 Coordinators should obtain their emergency packet and commence activation of their respective areas utilizing checklists 1 through 6.
- 4.1.3 The Control Room Staff should be expeditiously relieved of peripheral duties and communications not directly related to Control Room manipulations.

4.2 OPERATIONS

- 4.2.1 EOF personnel ensure the assumption of the following responsibilities:

- Notifications.
- Protective Action Recommendations.
- Dose Assessment.
- Requests for outside assistance.
- Interface with Federal, State and Local authorities.

4.2.2 Declaration of Recovery

- 4.2.2.1 The Recovery Manager should coordinate the establishment of a Recovery Organization with the Emergency Coordinator per **EIP-ZZ-00260**, Event Closeout/Plant Recovery.
- 4.2.2.2 EOF personnel continue activities until the Recovery Organization is established.

4.2.3 Event Closeout

- 4.2.3.1 The Recovery Manager should coordinate Closeout with the Emergency Coordinator per **EIP-ZZ-00260**, Event Closeout/Plant Recovery.

4.3 BACKUP EOF (BEOF)

- 4.3.1 If the EOF is uninhabitable, the Recovery Manager directs the Off-site Liaison Coordinator to ensure EOF responsibilities are transferred to the TSC and/or Control Room, EOF personnel are relocated, and the BEOF is activated in accordance with Attachment 7, Backup EOF Checklist (**COMN 5730, 42514**)

- 4.3.1.1 If time permits, operations should continue at the EOF until the designated individuals reach the BEOF and assume responsibilities. Then the remaining personnel should report to their designated facilities.
- 4.3.2 The Recovery Manager transfers responsibilities to the Emergency Coordinator until the Backup EOF is activated.

5 REFERENCES

- 5.1 **EIP-ZZ-00201**, Notifications
- 5.2 **EIP-ZZ-00211**, Field Monitoring
- 5.3 **EIP-ZZ-00212**, Protective Action Recommendations
- 5.4 **EIP-ZZ-00260**, Event Closeout/Plant Recovery
- 5.5 **EIP-ZZ-01211**, Management Action Guides for Nuclear Emergencies (MAGNEM)
- 5.6 **OOA-UB-EPG50**, EOF Diesel Emergency Start
- 5.7 **OOA-UB-00004**, Emergency Operations Center Ventilation
- 5.8 **HPCI 96-0007**, Emergency Response Facility Habitability Guidelines
- 5.9 **OOA-HD-00001**, EOF Chemical & RW Drain Tank (THD01) Level Indication Panel (HD001) Operation.
- 5.10 **HTP-ZZ-04101**, Operation of the Ludlum Model 177 Series Alarm Ratemeter.
- 5.11 **HTP-ZZ-04135**, Operation of the NNC Gamma-10 Portal Monitor.
- 5.12 **HTP-ZZ-04137**, Operation of the Eberline AMS-3

6 RECORDS

<p><u>NOTE:</u> All Facility Logs, SENTRY or MAGNEM screen prints, office memos, notes, etc. should be attached to the Coordinator Checklist and turned in to the Logistics Support Coordinator and/or the EP Department.</p>

6.1 QA RECORDS

- 6.1.1 Attachment 1, Recovery Manager Checklist (File #K171.0010)
- 6.1.2 Attachment 2, Off-Site Liaison Coordinator Checklist (File #K171.0010)
- 6.1.3 Attachment 3, Protective Measures Coordinator (PMC) Checklist (File #K171.0010)
- 6.1.4 Attachment 4, Plant Assessment Coordinator (PAC) Checklist (File #K171.0010)
- 6.1.5 Attachment 5, Logistics Support Coordinator (LSC) Checklist (File #K171.0010)
- 6.1.6 Attachment 6, Dose Assessment Coordinator (DAC) Checklist (File #K171.0010)
- 6.1.7 Attachment 7, Backup EOF Checklist (File #K171.0010)

RECOVERY MANAGER CHECKLIST

DATE: _____ TIME: _____

<u>INITIATION</u>	
<input type="checkbox"/> 1.	Sign in on Facility Sign-in board. Obtain the RM package and clip on Recovery Manager badge. (If the EOF is uninhabitable, direct the OSL to initiate Attachment 7 and relocate to the BEOF.)
<input type="checkbox"/> 2.	Initiate Facility Log Sheet.
<input type="checkbox"/> 3.	Receive briefing by: <div style="margin-left: 20px;"> <input type="checkbox"/> Off-Site Liaison Coordinator (facility conditions). <input type="checkbox"/> Emergency Coordinator (plant conditions). </div>
<input type="checkbox"/> 4.	Direct the OSL and DAC to begin turnover from the control room, and the Protective Measures Coordinator to begin turnover of Protective Action Recommendations (PARs). <i>NOTE: DO NOT assume responsibility for communications, Dose Assessment, and PARs until both the OSL & DAC have completed turnover.</i>
<input type="checkbox"/> 5.	Notify the Control Room and the EC prior to assuming responsibilities for Communications, Dose Assessment and PARs using the EML phone, if available.
<input type="checkbox"/> 6.	Make a site wide announcement that, "The EOF has accepted emergency responsibilities for Offsite Notifications, Dose Assessment and PARs from the Control Room."
<input type="checkbox"/> 7.	Upon arrival of the PMC and PAC, direct the PMC to coordinate Notifications with the PAC and DAC for your review and approval.
<input type="checkbox"/> 8.	Ensure the following positions have been filled in the EOF <div style="margin-left: 20px;"> <input type="checkbox"/> Communicator <input type="checkbox"/> PMC <input type="checkbox"/> PAC <input type="checkbox"/> LSC </div>
<input type="checkbox"/> 9.	Make a facility announcement; "EOF Coordinators should assess manpower requirements in your respective areas. Request for additional support staff should be addressed to the Logistics Coordinator for callout. All excess personnel should assemble in the Media Area and await further instructions."
<input type="checkbox"/> 10.	Discuss any additional manpower support or supplies required with the Logistical Support Coordinator. Instruct the Logistical Support Coordinator to inform excess personnel to return home and remain near their phones for further instructions concerning shift relief schedules and report times.
<input type="checkbox"/> 11.	Instruct Logistical Support Coordinator to assign Clerical Support to the Priorities white board.

<u>OPERATIONS</u>	
(*) Steps are items that <i>MUST</i> be frequently reviewed	
<input type="checkbox"/> *1.	Periodically update EOF personnel including priorities, habitability status, Site radiological conditions and events, and ensure Priorities board is updated.
<input type="checkbox"/> *2.	Provide status reports to: <div style="margin-left: 20px;"> <input type="checkbox"/> SEMA <input type="checkbox"/> NRC <input type="checkbox"/> Counties <input type="checkbox"/> Corporate Spokesperson </div>
<input type="checkbox"/> *3.	If the EOF becomes uninhabitable, direct the OSL to initiate Attachment 7 and relocate to Backup Emergency Operations Facility.
<input type="checkbox"/> *4.	Authorize exposure in excess of 10CFR20 limits if required and requested from the HPC.

RECOVERY MANAGER CHECKLIST

<u>TURNOVER</u>	
<input type="checkbox"/> 1.	Incoming Recovery Manager briefed on EOF status and log reviewed.
<input type="checkbox"/> 2.	Emergency Coordinator and Shift Supervisor informed.
<input type="checkbox"/> 3.	Turnover announced to EOF staff.
<input type="checkbox"/> 4.	Turnover complete _____ Time.
<input type="checkbox"/> 5.	Turnover logged.
<input type="checkbox"/> 6.	Initiate a new checklist CA#732.

<u>RECOVERY</u>	
<input type="checkbox"/> 1.	EOF personnel continue activities per procedures until Recovery Organization established.
<input type="checkbox"/> 2.	Discuss the expected response of State and Federal agencies.
<input type="checkbox"/> 3.	Discuss availability of and provisions for State and Federal agencies with the Off-Site Liaison Coordinator and the Logistics Support Coordinator.
<input type="checkbox"/> 4.	Declare Recovery per EIP-ZZ-00260 , Event Closeout/Recovery. <div style="margin-left: 40px;"> <input type="checkbox"/> Emergency Coordinator contacted. <input type="checkbox"/> Shift Supervisor contacted. <input type="checkbox"/> NRC contacted. </div>
<input type="checkbox"/> 5.	Recovery organization established.
<input type="checkbox"/> 6.	Make a site wide announcement of Recovery Declaration.

<u>TERMINATION and SHUTDOWN</u>	
<input type="checkbox"/> 1.	Operations shutdown or transferred to the TSC, as applicable. <div style="margin-left: 40px;"> <input type="checkbox"/> Notifications <input type="checkbox"/> Protective Action Recommendations <input type="checkbox"/> Requests for Outside Assistance <input type="checkbox"/> Authorizing exposure in excess of 10CFR20 limits </div>
<input type="checkbox"/> 2.	Coordinators directed to shutdown EOF _____ Time.
<input type="checkbox"/> 3.	Make site wide announcement.

Recovery Manager Signature

OFF-SITE LIAISON COORDINATOR CHECKLIST

DATE: _____ TIME: _____

<u>INITIATION</u>	
<input type="checkbox"/> 1.	Sign in on Facility Sign-in board. Obtain the OSL and Communicators packages and clip on the Off-Site Liaison badge.
<input type="checkbox"/> 2.	Inform Recovery Manager of your presence.
<input type="checkbox"/> 3.	Adjust Gai-tronics to an acceptable level.
<input type="checkbox"/> 4.	Ensure the EOF has power. <input type="checkbox"/> Normal power, (i.e. lights on, power available to computers, etc.). <input type="checkbox"/> No Power-Start the EOF diesel per OOA-UB-EPG50 or call for Equipment Operator if available.
<input type="checkbox"/> 5.	Shift/verify the PC power supplies to the UPS position. <input type="checkbox"/> Communicator (2). <input type="checkbox"/> Phone room (134) bridge. <input type="checkbox"/> Telecommunications room (130) bridge located inside the ERFIS cabinet (not locked).
<input type="checkbox"/> 6.	Check fax machine for any communications.
<input type="checkbox"/> 7.	Initiate Facility Log sheet.
<input type="checkbox"/> 8.	Ensure the SENTRY PC is powered on, and the OUTLOOK application is running.
<input type="checkbox"/> 9.	Check OSL and Communicator phone lines for dial tone.
<input type="checkbox"/> 10.	Turn on projected statusboard.
<input type="checkbox"/> 11.	Upon direction of the RM, using EIP-ZZ-00201 Attachment 3 (CA#234), contact the Control Room Communicator to get a brief on the status of Communications (prepare to transfer communications to EOF). (If the EOF is uninhabitable, communications should remain in the Control Room until the BEOF is staffed.)
<input type="checkbox"/> 12.	Notify the RM when you are ready to assume your duties. TIME: _____
<input type="checkbox"/> 13.	Obtain RM approval to transfer communications to the EOF, then relieve the control room communicator of communications and notifications. (Communications and Dose Assessment should be transferred to the EOF at the same time.)
<input type="checkbox"/> 14.	Communicator: (as assigned) <input type="checkbox"/> _____ Name
<input type="checkbox"/> 15.	Contact County EMDs and assess the need for County Technical Representatives and dispatch Technical Representatives as needed. (Use list of JPIC Technical Representatives.)

<u>OPERATIONS</u>	
(*) Steps are items that MUST be frequently reviewed.	
<input type="checkbox"/> *1.	Using the flowchart from Attachment 3, EIP-ZZ-00201 , Notifications, notify the required authorities and agencies. <i>NOTE: Notifications of a new classification or Protective Action Recommendations must be made in 15 minutes. Follow up notifications are made approximately every 30 minutes.</i>
<input type="checkbox"/> *2.	Provide support to Federal, State, and Local personnel in the EOF, as appropriate, including provisions for office space and communications.
<input type="checkbox"/> *3.	Ensure the Emergency Classification status board is properly updated.

OFF-SITE LIAISON COORDINATOR CHECKLIST

<u>TURNOVER</u>	
<input type="checkbox"/> 1.	Brief the oncoming Off-Site Liaison Coordinator on the status of the facility and on-site and off-site emergency response activities. Review log.
<input type="checkbox"/> 2.	Brief the oncoming Communicator on the status, information transmitted and the frequency of updates.
<input type="checkbox"/> 3.	Inform the Recovery Manager.
<input type="checkbox"/> 4.	Turnover complete _____ Time.
<input type="checkbox"/> 5.	Turnover logged.
<input type="checkbox"/> 6.	Initiate a new checklist CA#733.

<u>RECOVERY</u>	
<input type="checkbox"/> 1.	Continue providing requested information.
<input type="checkbox"/> 2.	Continue activities per procedures and checklist until Recovery Organization is established or until directed otherwise by the Recovery Manager.

<u>EOF SHUTDOWN</u>	
<input type="checkbox"/> 1.	Ensure area is put into order and logs collected and give to the Logistics Support Coordinator.
<input type="checkbox"/> 2.	Ensure EOF operations, if any, as specified by the Recovery Manager are transferred to the plant operating staff or the TSC, if operational.
<input type="checkbox"/> 3.	Ensure that emergency equipment and supplies are returned and/or stored to their normal condition. <ul style="list-style-type: none"> <input type="checkbox"/> Radio <input type="checkbox"/> Emergency Equipment Kits <input type="checkbox"/> Emergency Diesel Generator <input type="checkbox"/> Ventilation System <input type="checkbox"/> Portable Monitoring Equipment <input type="checkbox"/> Microfiche Reader <input type="checkbox"/> Return ALL UPS's to LINE position.
<input type="checkbox"/> 4.	After completion of the above steps, inform the Emergency Coordinator that the EOF has been shutdown.
<input type="checkbox"/> 5.	Ensure that all EOF emergency records are collected and given to the Logistics Support Coordinator/Emergency Preparedness Department.
<input type="checkbox"/> 6.	Ensure that State and Local officials are informed of the EOF shutdown.

Off-Site Liaison Coordinator Signature

PROTECTIVE MEASURES COORDINATOR CHECKLIST

DATE: _____ TIME: _____

INITIATION	
<input type="checkbox"/> 1.	Sign in on Facility Sign-in board. Obtain the PMC package and clip on the Protective Measures Coordinator badge.
<input type="checkbox"/> 2.	Ensure the EOF has power. <input type="checkbox"/> Normal power, (i.e. lights on, power available to computers, etc.). <input type="checkbox"/> No Power-Start the EOF diesel per OOA-UB-EPG50 or call for Equipment Operator if available
<input type="checkbox"/> 3.	Ensure the EOF HVAC system is in recirculation/filter mode per OOA-UB-00004 . Keys to the HVAC room are in the OSL packet. .
<input type="checkbox"/> 4.	Check computer and printer power supplies have been shifted to the UPS position: <input type="checkbox"/> Computer <input type="checkbox"/> Color Printer
<input type="checkbox"/> 5.	Recovery Manager informed of your presence.
<input type="checkbox"/> 6.	Initiate Facility Log sheet.
<input type="checkbox"/> 7.	<input type="checkbox"/> Plant Assessment Coordinator (PAC) _____ Name <input type="checkbox"/> Dose Assessment Coordinator (DAC) _____ Name
<input type="checkbox"/> 8.	Check PMC phone lines for dial tone.
<input type="checkbox"/> 9.	Assist in the transfer of PARs to Plant Assessment Coordinator and dose assessment to the Dose Assessment Coordinator.
<input type="checkbox"/> 10.	Inform the Recovery Manager when your ready to assume duties.

NOTE: If the Plant Assessment Coordinator is not staffed, it is your responsibility to provide the Recovery Manager with Protective Action Recommendations (PARs) based on Plant Conditions per **EIP-ZZ-00212**, **PROTECTIVE ACTION RECOMMENDATIONS**. Ensure the Technical Assessment Coordinator in the TSC is aware of your presence in the EOF. Inquire of any PARs already in place.

OPERATION	
(* Steps are recurring items that need to be reviewed on a continual bases)	
<input type="checkbox"/> *1.	Evaluate input from plant conditions (PAC), dose assessment (DAC), and EIP-ZZ-00212 , Protective Action Recommendations. Default to the most conservative recommendation, time is essential.
<input type="checkbox"/> *2.	Request release duration estimate from the PAC or Tech Assessment Coordinator (TAC) and provide updates to the DAC
<input type="checkbox"/> *3.	Review all notifications and obtain Recovery Manager approval for all notifications prepared by the EOF Communicator. Notifications to the State and Counties are made within 15 minutes of a classification declaration or a change in Protective Action Recommendations and at approximately 30-minute intervals thereafter.

PROTECTIVE MEASURES COORDINATOR CHECKLIST

<u>TURNOVER</u>	
<input type="checkbox"/> 1.	Brief the oncoming PMC on the status of the facility and on-site and off-site emergency response activities.
<input type="checkbox"/> 2.	Review log.
<input type="checkbox"/> 3.	Inform the Recovery Manager.
<input type="checkbox"/> 4.	Turnover complete _____ Time.
<input type="checkbox"/> 5.	Turnover logged.
<input type="checkbox"/> 6.	Initiate a new checklist CA# 737.

<u>RECOVERY</u>	
<input type="checkbox"/> 1.	Continue providing requested information.
<input type="checkbox"/> 2.	Continue activities per procedures and checklist until Recovery Organization established or until directed otherwise by the Recovery Manager.

<u>TERMINATION and SHUTDOWN</u>	
<input type="checkbox"/> 1.	When directed, assist with the EOF deactivation.
<input type="checkbox"/> 2.	Ensure area is put into order and logs collected and give to the Logistics Support Coordinator.

Protective Measures Coordinator

PROTECTIVE MEASURES COORDINATOR CHECKLIST**PLANT COMPUTER GUIDE**Color and Description of Computer Point Quality Codes

The Plant Computer System (PCS) assigns a "Data Quality Code" to each field input and calculated variable at the time the point is processed. These quality codes are determined by a series of checks/tests performed during both input-data validation and point processing. A list of the quality codes follows which is ordered by severity:

1. **UNK** (Blue) – Unknown; point not yet processed. If a point is deleted from processing when SAIPMS is first activated, "UNK" quality code will be assigned. This quality code will also be displayed for calculated or derived points which have not yet cycled through their first processing period.
2. **DEL** (Blue) – Point has been deleted from processing. If a point was active when the SAIPMS software was activated, and was subsequently disabled from processing, the quality code "DEL" is assigned and no further engineering unit conversion is attempted.
3. **NCAL** (Blue) – Derived point not calculable. This quality code is assigned when it has been determined that insufficient inputs exist to accurately perform the associated equation or calculation.
4. **INVL** (Blue) – Invalid code is generated when a point's defined hardware channel address has not been selected, does not exist, or cannot be accessed. This usually indicates either an invalid hardware channel address, or a failed hardware component. For example, if a defined card slot address does not contain a card, all points assigned to that card will be tagged as INVL. Also, if a multiplexer has either failed or been taken offline, all points assigned to that multiplexer will be tagged as INVL.
5. **RDER** (Blue) – Sensor Read Error code is generated when no test return/input is received for a point in response to a scan command/output to a valid hardware channel address. This usually indicates a faulty sensor or a multiplexer communication problem. Whenever a quality code of RDER is observed, a hardware error condition exists.
6. **OTC** (Blue) – Open thermocouple.
7. **BAD** (Blue) – The BAD (Bad Scanned Value) code is generated when the "corrected" scanned value (i.e. adjusted for A/D gain and zero-drift error) exceeds the sensor range as defined by a point's "SENSOR LIMIT LOW" and "SENSOR LIMIT HIGH" values in the database.
8. **HRL** (Blue) – Point exceeds high reasonable limits. This condition is tested after engineering unit conversion and if the value exceeds the defined High Reasonable limit, a quality code of "HRL" is assigned.
9. **LRL** (Blue) – Point exceeds low reasonable limits. This condition is tested after engineering unit conversion and if the value exceeds the defined Low Reasonable limit, a quality code of "LRL" is assigned.
10. **REDU** (Cyan) – Point fails redundant point check. If a point has a defined Redundant Point and its current value does not match the defined point within the specified tolerance, it is assigned a quality code of "REDU".

PROTECTIVE MEASURES COORDINATOR CHECKLIST**PLANT COMPUTER GUIDE**

11. **HIHI** (Red) – Point above high alarm limit. This condition is met when a point's current value has exceeded the defined High Alarm limit, and is assigned a quality code of "HIHI".
12. **LOLO** (Red) – Point below low alarm limit. This condition is met when a point's current value is less than the defined LOW Alarm limit, and is assigned a quality code of "LOLO".
13. **HALM** (Yellow) – Point above high warning limit. This condition is met when a point's current value has exceeded the defined High Operating limit, and is assigned a quality code of "HALM".
14. **LALM** (Yellow) – Point below low warning limit. This condition is met when a point's current value is below the defined Low Operating limit, and is assigned a quality code of "LALM".
15. **ALM** (Red) – State/Change-of-State alarm. Any logical-value point may be alarm monitored against either a defined logical state (i.e., "TRUE", or "FALSE"), or a defined change-of-state condition (i.e., "TRUE" to "FALSE", "FALSE" to "TRUE", or either state change). A quality code of "ALM" is assigned if the point meets any of the above conditions.
16. **SUB** (Cyan) – Substitute value inserted for point. If a substitute value has been entered for a point, the point is assigned a quality code of "SUB", and no further alarm checks or engineering unit conversions are made.
17. **DALM** (Cyan) – Point is deleted from alarm checks. If a point is currently disabled from alarm processing, it is assigned a quality code of "DALM", and no further alarm checks are made.
18. **INHB** (Green) – Point is inhibited from alarm by cut-out point. If a point has an assigned cut-out point, and the current state of the cut-out point matches the specified alarm inhibit state, the point is assigned a quality code of "INHB", and no alarm transaction is generated. While inhibited, the point value WILL continue to update, only the alarm condition is inhibited.
19. **GOOD** (Green) – Point passed all the above checks. The quality code "GOOD" indicates that all defined alarm conditions, states, or values have not been exceeded or met.

PLANT ASSESSMENT COORDINATOR CHECKLIST

DATE: _____ TIME: _____

<u>INITIATION</u>	
<input type="checkbox"/> 1.	Sign in on Facility Sign-in board. Obtain the PAC package and clip on the Plant Assessment Coordinator badge
<input type="checkbox"/> 2.	Ensure the EOF has power. <div style="margin-left: 20px;"> <input type="checkbox"/> Normal power, (i.e. lights on, power available to computers, etc.). <input type="checkbox"/> No Power-Start the EOF diesel per OOA-UB-EPG50 or call for Equipment Operator if available </div>
<input type="checkbox"/> 3.	Ensure the EOF HVAC system is in recirculation/filter mode per OOA-UB-00004 . Keys to the HVAC room are in the OSL packet..
<input type="checkbox"/> 4	Check computer and printer power supplies have been shifted to the UPS position. <div style="margin-left: 20px;"> <input type="checkbox"/> Computer <input type="checkbox"/> Color Printer </div>
<input type="checkbox"/> 5.	Protective Measures Coordinator informed of your presence.
<input type="checkbox"/> 6.	Initiate Facility Log sheet.
<input type="checkbox"/> 7.	<input type="checkbox"/> Plant Assessment Staff _____ Name <div style="margin-left: 100px;">_____ Name</div>
<input type="checkbox"/> 8.	Turn on projected statusboards.
<input type="checkbox"/> 9.	Check PAC phone lines for dial tones.
<input type="checkbox"/> 10.	Contact the TAC in the TSC and request information on any EALs and PARs already in place, and request that preparations be made to transfer PARs to the EOF.
<input type="checkbox"/> 11.	Notify the PMC when you are ready to assume your duties, including PARs.
<input type="checkbox"/> 12.	Evaluate PSB1, PSB2, and PSB3 on the Plant Computer.
<input type="checkbox"/> 13.	Initiate Free Format Logs as needed.
<input type="checkbox"/> 14.	Formally accept PARs from the TSC.

<u>OPERATIONS</u>	
<i>(*) Steps are items that MUST be frequently reviewed</i>	
<input type="checkbox"/> *1.	Evaluate input from plant conditions and EIP-ZZ-00101 and EIP-ZZ-00212, Protective Action Recommendations.
<input type="checkbox"/> *2.	Provide the Protective Measures Coordinator with plant based Protective Action Recommendations.
<input type="checkbox"/> *3.	Request release duration from TAC.

PLANT ASSESSMENT COORDINATOR CHECKLIST

<u>TURNOVER</u>	
<input type="checkbox"/> 1.	Brief the oncoming PAC on the status of the facility and on-site and off-site emergency response activities.
<input type="checkbox"/> 2.	Review log.
<input type="checkbox"/> 3.	Inform the Protective Measures Coordinator.
<input type="checkbox"/> 4.	Turnover complete _____ Time.
<input type="checkbox"/> 5.	Turnover logged.
<input type="checkbox"/> 6.	Initiate a new checklist CA#735.

<u>RECOVERY</u>	
<input type="checkbox"/> 1.	Continue providing requested information.
<input type="checkbox"/> 2.	Continue activities per procedures and checklist until Recovery Organization established or until directed otherwise by the Protective Measures Coordinator/Recovery Manager.

<u>TERMINATION and SHUTDOWN</u>	
<input type="checkbox"/> 1.	When directed, assist the OSL with the EOF deactivation.
<input type="checkbox"/> 2.	Ensure area is put into order and logs collected and give to the Logistics Support Coordinator.

Plant Assessment Coordinator

PLANT ASSESSMENT COORDINATOR CHECKLIST**PLANT COMPUTER GUIDE****Color and Description of Computer Point Quality Codes**

The Plant Computer System (PCS) assigns a "Data Quality Code" to each field input and calculated variable at the time the point is processed. These quality codes are determined by a series of checks/tests performed during both input-data validation and point processing. A list of the quality codes follows which is ordered by severity:

1. **UNK** (Blue) – Unknown; point not yet processed. If a point is deleted from processing when SAIPMS is first activated, "UNK" quality code will be assigned. This quality code will also be displayed for calculated or derived points which have not yet cycled through their first processing period.
2. **DEL** (Blue) – Point has been deleted from processing. If a point was active when the SAIPMS software was activated, and was subsequently disabled from processing, the quality code "DEL" is assigned and no further engineering unit conversion is attempted.
3. **NCAL** (Blue) – Derived point not calculable. This quality code is assigned when it has been determined that insufficient inputs exist to accurately perform the associated equation or calculation.
4. **INVL** (Blue) – Invalid code is generated when a point's defined hardware channel address has not been selected, does not exist, or cannot be accessed. This usually indicates either an invalid hardware channel address, or a failed hardware component. For example, if a defined card slot address does not contain a card, all points assigned to that card will be tagged as INVL. Also, if a multiplexer has either failed or been taken offline, all points assigned to that multiplexer will be tagged as INVL.
5. **RDER** (Blue) – Sensor Read Error code is generated when no test return/input is received for a point in response to a scan command/output to a valid hardware channel address. This usually indicates a faulty sensor or a multiplexer communication problem. Whenever a quality code of RDER is observed, a hardware error condition exists.
6. **OTC** (Blue) – Open thermocouple.
7. **BAD** (Blue) – The BAD (Bad Scanned Value) code is generated when the "corrected" scanned value (i.e. adjusted for A/D gain and zero-drift error) exceeds the sensor range as defined by a point's "SENSOR LIMIT LOW" and "SENSOR LIMIT HIGH" values in the database.
8. **HRL** (Blue) – Point exceeds high reasonable limits. This condition is tested after engineering unit conversion and if the value exceeds the defined High Reasonable limit, a quality code of "HRL" is assigned.
9. **LRL** (Blue) – Point exceeds low reasonable limits. This condition is tested after engineering unit conversion and if the value exceeds the defined Low Reasonable limit, a quality code of "LRL" is assigned.

PLANT ASSESSMENT COORDINATOR CHECKLIST**PLANT COMPUTER GUIDE**

10. **REDU** (Cyan) – Point fails redundant point check. If a point has a defined Redundant Point and its current value does not match the defined point within the specified tolerance, it is assigned a quality code of "REDU".
11. **HIHI** (Red) – Point above high alarm limit. This condition is met when a point's current value has exceeded the defined High Alarm limit, and is assigned a quality code of "HIHI".
12. **LOLO** (Red) – Point below low alarm limit. This condition is met when a point's current value is less than the defined LOW Alarm limit, and is assigned a quality code of "LOLO".
13. **HALM** (Yellow) – Point above high warning limit. This condition is met when a point's current value has exceeded the defined High Operating limit, and is assigned a quality code of "HALM".
14. **LALM** (Yellow) – Point below low warning limit. This condition is met when a point's current value is below the defined Low Operating limit, and is assigned a quality code of "LALM".
15. **ALM** (Red) – State/Change-of-State alarm. Any logical-value point may be alarm monitored against either a defined logical state (i.e., "TRUE", or "FALSE"), or a defined change-of-state condition (i.e., "TRUE" to "FALSE", "FALSE" to "TRUE", or either state change). A quality code of "ALM" is assigned if the point meets any of the above conditions.
16. **SUB** (Cyan) – Substitute value inserted for point. If a substitute value has been entered for a point, the point is assigned a quality code of "SUB", and no further alarm checks or engineering unit conversions are made.
17. **DALM** (Cyan) – Point is deleted from alarm checks. If a point is currently disabled from alarm processing, it is assigned a quality code of "DALM", and no further alarm checks are made.
18. **INHB** (Green) – Point is inhibited from alarm by cut-out point. If a point has an assigned cut-out point, and the current state of the cut-out point matches the specified alarm inhibit state, the point is assigned a quality code of "INHB", and no alarm transaction is generated. While inhibited, the point value WILL continue to update, only the alarm condition is inhibited.
19. **GOOD** (Green) – Point passed all the above checks. The quality code "GOOD" indicates that all defined alarm conditions, states, or values have not been exceeded or met.

LOGISTICS SUPPORT COORDINATOR CHECKLIST

DATE: _____ TIME: _____

INITIATION							
<input type="checkbox"/> 1.	Sign in on Facility Sign-in board. Obtain the Logistics Support Coordinator (LSC) package and clip on the Logistics Support Coordinator badge						
<input type="checkbox"/> 2.	Recovery Manager informed of your presence.						
<input type="checkbox"/> 3.	Initiate Facility Log sheet.						
<input type="checkbox"/> 4.	Equipment energized / made ready. <table border="0"> <tr> <td><input type="checkbox"/> Check and Synchronize clock</td> <td><input type="checkbox"/> Copier</td> </tr> <tr> <td><input type="checkbox"/> LSC Computers</td> <td><input type="checkbox"/> Microfiche Reader</td> </tr> <tr> <td><input type="checkbox"/> LSC Telephones</td> <td><input type="checkbox"/> FAX</td> </tr> </table>	<input type="checkbox"/> Check and Synchronize clock	<input type="checkbox"/> Copier	<input type="checkbox"/> LSC Computers	<input type="checkbox"/> Microfiche Reader	<input type="checkbox"/> LSC Telephones	<input type="checkbox"/> FAX
<input type="checkbox"/> Check and Synchronize clock	<input type="checkbox"/> Copier						
<input type="checkbox"/> LSC Computers	<input type="checkbox"/> Microfiche Reader						
<input type="checkbox"/> LSC Telephones	<input type="checkbox"/> FAX						
<input type="checkbox"/> 5.	Admin Coordinator contacted and administrative operations and responsibilities discussed. Obtain the names of the clerical support staff reporting. Assume the responsibility of requesting outside assistance.						
<input type="checkbox"/> 6.	Personnel Assessment Logistics Support Staff _____ (name) _____ (name) Clerical Support Staff _____ (name) (assign to Recovery Manager) _____ (name) (assign to Priorities board) _____ (name)						
<input type="checkbox"/> 7.	When directed by the RM, evaluate extra personnel. <ul style="list-style-type: none"> <input type="checkbox"/> Assemble all extra responders in the Media Area to await further instructions. (Obtain key from the Off Site Liaison Coordinator.) <input type="checkbox"/> Establish needs of coordinators. <input type="checkbox"/> Inform extra responders of established routes to take when leaving. <input type="checkbox"/> Send personnel home, or to a designated Reception and Care Center, with instructions to stand by until they can be contacted with a designated time to return. 						
<input type="checkbox"/> 8.	If adverse radiological conditions exist or occur, post signs and posters regarding "No Eating, Drinking, Smoking, or Chewing".						
<input type="checkbox"/> 9.	If additional support is needed, contact the Administrative Coordinator for callout.						

OPERATIONS	
<i>(*) Steps are items that MUST be frequently reviewed</i>	
<input type="checkbox"/> *1.	Contact Administrative Coordinator and request additional clerical support as needed.
<input type="checkbox"/> *2.	Check status of EOF/JPIC emergency responders per EIP-ZZ-00200 , Attachment 2. Do NOT delete messages until all positions are filled. Distribute copies of Attachment 2 to Coordinators periodically until all positions are filled. Paging or calling using the Emergency Telephone Directory may be required. <ul style="list-style-type: none"> <input type="checkbox"/> Call 64777 Audix. <input type="checkbox"/> Enter 68202 and the # sign. <input type="checkbox"/> Enter the password which is the # sign. <input type="checkbox"/> Follow instructions to listen to new messages and complete Attachment 2.
<input type="checkbox"/> *3.	Serve as liaison with American Nuclear Insurers and INPO as required. (NOTE: The communicators contact both groups with notifications.)

LOGISTICS SUPPORT COORDINATOR CHECKLIST

<input type="checkbox"/> *4.	Contact Regional Regulatory Affairs Group and have them review notifications required per APA-ZZ-00520 , Reporting Requirements And Responsibilities.
<input type="checkbox"/> *5.	Contact area Motels to begin prearranging lodging: <ul style="list-style-type: none"> <input type="checkbox"/> Ensure motels being contacted are outside the Plume Exposure Pathway. <input type="checkbox"/> Establish a list of motels with number of rooms available for each (the list should be generated for the next several days at a minimum). <input type="checkbox"/> Request if some (your best estimate dividing between available motels) rooms may be held for 6:00PM cancellation daily for the next several days.
<input type="checkbox"/> *6.	Meal Arrangements <ul style="list-style-type: none"> <input type="checkbox"/> Contact area restaurants/caterers to determine availability of meals. (This should be coordinated with the Admin Coordinator in the TSC who shares this responsibility.)
<input type="checkbox"/> *7.	Temporary facilities needed.
<input type="checkbox"/> *8.	Contact the Emergency Procurement personnel at the Ameren GOB to establish a working relationship.
<input type="checkbox"/> *9.	Review letters of agreement and the INPO Resources book for resources available from other plants.
<input type="checkbox"/> *10.	If requests for additional support personnel and services are made: <ul style="list-style-type: none"> <input type="checkbox"/> Keep Recovery Manager informed of request being made for additional support. <input type="checkbox"/> Contact vendors and obtain the following information: <ol style="list-style-type: none"> 1) Name(s) of personnel. 2) Social Security Number(s). 3) Point of Departure. 4) Transportation requirements (airline tickets, land transportation, etc.). 5) Lodging requirements. 6) Anticipated Work Location. 7) Estimated time of arrival. <input type="checkbox"/> Contact Admin Coordinator to ensure access requirements are obtained and required training is scheduled.
<input type="checkbox"/> *11.	Request additional equipment as needed: <ul style="list-style-type: none"> <input type="checkbox"/> Keep Recovery Manager informed of request being made for additional support services/equipment. <input type="checkbox"/> Requesting organization should provide: <ol style="list-style-type: none"> 1) Explicit equipment requirements in writing. 2) Amount needed. 3) Delivery location. 4) Person on site to contact. 5) Justifiable reason for request. <input type="checkbox"/> Contact vendor and obtain the following information: <ol style="list-style-type: none"> 1) Availability. 2) Shipping Mode. 3) Special handling requirements. 4) Estimated arrival time. <input type="checkbox"/> Contact the following to coordinate the delivery/arrival: <ol style="list-style-type: none"> 1) Security Coordinator. 2) OSL for traffic control. 3) Requesting group.

LOGISTICS SUPPORT COORDINATOR CHECKLIST

<u>TURNOVER</u>	
<input type="checkbox"/> 1.	Brief the oncoming LSC on the status of the facility and on-site and off-site emergency response activities.
<input type="checkbox"/> 2.	Review log.
<input type="checkbox"/> 3.	Inform the Recovery Manager, Logistics and Clerical Staff of the turnover.
<input type="checkbox"/> 4.	Turnover complete _____ Time.
<input type="checkbox"/> 5.	Turnover logged.
<input type="checkbox"/> 6.	Initiate a new checklist CA# 736.

<u>RECOVERY</u>	
<input type="checkbox"/> 1.	Continue providing requested information.
<input type="checkbox"/> 2.	Continue activities per procedures and checklist until Recovery Organization established or until directed otherwise by the Recovery Manager.

<u>TERMINATION and SHUTDOWN</u>	
<input type="checkbox"/> 1.	When directed, assist the OSL with the EOF deactivation.
<input type="checkbox"/> 2.	Ensure area is put into order and all EOF logs collected and forward to the Emergency Preparedness Department.

Logistics Support Coordinator

DOSE ASSESSMENT COORDINATOR CHECKLIST

DATE: _____ TIME: _____

<u>INITIATION</u>	
<input type="checkbox"/>	1. Sign in on Facility Sign-in board. Obtain the DAC package and clip on the Dose Assessment Coordinator badge.
<input type="checkbox"/>	2. Inform Recovery Manager/Protective Measures Coordinator of your presence.
<input type="checkbox"/>	3. Adjust Gai-tronics in Recovery Center to an acceptable level.
<input type="checkbox"/>	4. Switch the DAC's computers (2) power supplies to the UPS position.
<input type="checkbox"/>	5. Initiate Facility Log sheet.
<input type="checkbox"/>	6. Check DAC phone lines for dial tone and Dose Assessment Equipment available and operable. Report any deficiencies to the Logistics Support Coordinator.
<input type="checkbox"/>	7. Turn on overhead projector.
<input type="checkbox"/>	8. Upon direction of the RM, Contact the Rad/Chem Technician in the Control Room who is performing dose assessment and request a turnover of dose assessment activities including elevated Radiation Monitor readings and trends (prepare to accept transfer of Dose Assessment to EOF). (If the EOF is uninhabitable, Dose Assessment is maintained in the TSC until the BEOF is staffed.)
<input type="checkbox"/>	9. If vital busses NB01 and NB02 are degraded, refer to KOA-ZZ-00125 to determine effect of degraded condition of Plant computer points.
<input type="checkbox"/>	10. Notify the RM when you are ready to assume your duties. TIME: _____
<input type="checkbox"/>	11. Obtain RM approval to transfer Dose Assessment to the EOF, and then relieve the Rad/Chem Technician in the Control Room of his Dose Assessment responsibility. (Communications and Dose Assessment should be transferred to the EOF at the same time.)
<input type="checkbox"/>	12. Contact the HP Coordinator (HPC) and discuss the need to Assign R/C Support Personnel to the Rapid Plume Assessment Tech. position, if not already dispatched.
<input type="checkbox"/>	13. Contact the HP Coordinator (HPC) in the TSC and request: <ul style="list-style-type: none"> • Two (2) Field Monitoring Teams (FMT) be dispatched, and • Two (2) Dose Assessment Staff personnel to be sent to the EOF. <i>NOTE: If release is in progress or imminent, brief the FMTs on the radio.</i>

<u>OPERATIONS</u>	
<p>(*) Steps are items that MUST be frequently reviewed.</p> <p>(**) Frequently reviewed steps that can be completed by Dose Assessment staff.</p>	
<input type="checkbox"/>	*1. Make Facility Announcement that "All personnel leaving the EOF should check out with the Security Officer prior to leaving the facility." If a release is in progress or anticipated announce "an HP brief from the DAC will also be required." <i>NOTE: If a release is in progress or anticipated, ensure all personnel dispatched from the EOF have dosimetry. The Security Officer will verify HP briefs prior to exit.</i>
<input type="checkbox"/>	*2. Upon determination that the emergency involves an actual or potential release of radioactive material, perform dose projections in accordance with EIP-ZZ-01211 , Management Action Guides For Nuclear Emergencies (MAGNEM). (COMN 42538) PRINT and SAVE all dose calculations. <i>NOTE: Request Rapid Plume Assessment Tech. (if dispatched) to obtain closed window RO-2 reading at or near Exclusion Area Boundary (EAB). This is to initially quantify the release.</i>
<input type="checkbox"/>	*3. Notify the Health Physics Coordinator (HPC) when thyroid dose exceeds 25 REM. Recommend KI for Plant Personnel.

DOSE ASSESSMENT COORDINATOR CHECKLIST

<input type="checkbox"/> *4.	Wind shifts and changes in meteorological conditions should be announced to the RM, FMTs, and/or PMC and noted on maps. Notification of Offsite Agencies MUST be initiated within approximately 15 minutes of changes to Protective Action Recommendations. When available, coordinate recommendations with the Missouri Department of Health (DOH).
<input type="checkbox"/> **5.	Obtain weather forecast initially and approximately every 4 hours. Brief the PMC and/or the RM of any anticipated changes in the weather conditions and their effects on PARs. (St. Louis Flight Briefing Service 1-800-992-7433 or use the Internet)
<input type="checkbox"/> *6.	Monitor Radiation Monitor Trends for Group 1 and 2 EALs in accordance with EIP-ZZ-00101 . Notify the RM and/or PMC of any setpoints that have been exceeded or are being approached. <i>NOTE: Refer to KOA-ZZ-00125 during degraded NB01/NB02 conditions to determine validity of plant computer points.</i>
<input type="checkbox"/> *7.	When the field monitoring teams are available, brief and dispatch as per EIP-ZZ-00211 , Field Monitoring Direction and Assessment. <i>NOTE: If release is in progress or imminent, brief the FMTs on the radio.</i>
<input type="checkbox"/> *8.	Evaluate input from the FMT's and monitor Protective Action Recommendations based on radiological conditions per EIP-ZZ-00212 , Protective Action Recommendations. When available, coordinate recommendations with the Missouri Department of Health (DOH).
<input type="checkbox"/> *9.	Request update of release duration from the PMC/PAC or the TAC if the PMC/PAC is not available.
<input type="checkbox"/> *10.	Provide the Protective Measures Coordinator with the radiological based Protective Action Recommendations. <i>NOTE: If the Protective Measures Coordinator is not staffed, provide the Recovery Manager with the above information.</i>
<input type="checkbox"/> *11.	Initiate Free Format Logs as needed.
<input type="checkbox"/> **12.	Establish Radiological Habitability Controls in the EOF. <ul style="list-style-type: none"> <input type="checkbox"/> Close both vestibule doors <input type="checkbox"/> Response check the Portal Monitor (page 5 of 7, this attachment or HTP-ZZ-04135) <input type="checkbox"/> AMS 3 energized and source checked (page 6 of 7, this attachment or HTP-ZZ-04137) <input type="checkbox"/> Control dosimetry set <input type="checkbox"/> Have Logistics Support post signs on doors to facility.
<input type="checkbox"/> **13.	Set up a frisking station using a model 177 ratemeter, (per page 4 of 7, this attachment or HTP-ZZ-04101).
<input type="checkbox"/> **14.	Issue TLDs to personnel, as required, in the EOF (Use Page 7 of 7, this attachment for issue).
<input type="checkbox"/> **15.	Ensure that facility habitability is maintained using portable instrumentation and secondary monitoring devices. <u>Habitability Action Levels:</u> <ul style="list-style-type: none"> <input type="checkbox"/> 600 mrem/hr direct dose rate, inform the RM, and commence monitoring cumulative dose. <input type="checkbox"/> 4400 mrem cumulative dose, recommend facility evacuation. <input type="checkbox"/> 5000 mrem/hr or greater direct dose rates recommend facility evacuation. <input type="checkbox"/> Iodine concentrations of 2.4 E -6 uCi/ml or greater, inform the Recovery Manager and commence air sampling to ensure total intake does not exceed 25 rem CDE. <input type="checkbox"/> Iodine concentrations of 1.9 E -5 uCi/ml or greater, recommend evacuation. <input type="checkbox"/> Appropriate protective actions, as per Health Physics procedures, should be recommended when experiencing the above radiological conditions and considering how and when to evacuate.
<input type="checkbox"/> **16.	Ensure the four (4) decon sinks are directed to the Radioactive Holding Tank when handling radioactive waste. The Waste Holding Tank is to be monitored for level and disposed of properly when full. See OOA-HD-00001 .
<input type="checkbox"/> **17.	Set up frisker at entry to Decon Area for use by returning FMTs.

DOSE ASSESSMENT COORDINATOR CHECKLIST

TURNOVER

<input type="checkbox"/> 1.	Brief the oncoming DAC and FMTs on radiological release and dose information, field monitoring activities, and in-plant Radiation Monitor trends.
<input type="checkbox"/> *2.	Arrange for Field Monitoring Team (FMT) turnover by briefing and dispatching relief FMTs. Ensure returning FMTs access the EOF via the Decon Area in back of the Lab.
<input type="checkbox"/> 3.	Review log.
<input type="checkbox"/> 4.	Inform the Recovery Manager, Dose Assessment Staff and Field Monitoring Teams of the turnover.
<input type="checkbox"/> 5.	Notify DOH personnel of turnover.
<input type="checkbox"/> 6.	Turnover complete _____ Time.
<input type="checkbox"/> 7.	Turnover logged.
<input type="checkbox"/> 8.	Initiate a new checklist CA# 734.

RECOVERY

<input type="checkbox"/> 1.	Continue providing requested information.
<input type="checkbox"/> 2.	Ensure that Field Monitoring Teams are informed of the Recovery declaration.
<input type="checkbox"/> 3.	Continue activities per procedures and checklist until Recovery Organization established or until directed otherwise by the Recovery Manager.

TERMINATION and SHUTDOWN

<input type="checkbox"/> 1.	When directed, assist with the EOF deactivation.
<input type="checkbox"/> 2.	Ensure area is put into order and logs collected and given to the Logistics Support Coordinator.
<input type="checkbox"/> 3.	Ensure dose assessment equipment is turned off and/or stored and UPS units selected to LINE.
<input type="checkbox"/> 4.	If sinks and showers are no longer needed for decon purposed, survey sinks and showers. If free of contamination, return drains to the sanitary tank.
<input type="checkbox"/> 5.	Secure friskers and store in locker.
<input type="checkbox"/> 6.	Secure AMS-3.
<input type="checkbox"/> 7.	Collect and make preparations to read TLDs issued from the EOF.

Dose Assessment Coordinator

DOSE ASSESSMENT COORDINATOR CHECKLIST***SET-UP AND OPERATION OF THE MODEL 177 RATEMETER***

This Startup Sequence augments HTP-ZZ-04101, Operation of the Ludlum Model 177 Series Alarm Ratemeter. It is designed to be used in an Emergency Response Facility when a HP Operations Technician is not immediately available.

1. Remove Model 177 ratemeter, frisker probe, detector cable, power cord, and check source from the E-Kit cabinet.
2. Connect detector and power cords, if not already connected, to the Model 177 ratemeter and verify the following switch settings:
 - Front Panel:
 1. On/Off switch in "ON" position.
 2. Volume adjusted to hear audible counts.
 3. Response switch in "slow" position.
 4. Range switch to "X1" scale.
 - Rear Panel:
 1. Alarm set at '5'.
 2. Subtract switch in "Off" position if meter has Subtract Switch.
3. Perform response check as follows:
 - ☐ Ensure instrument has a current calibration sticker.
 - ☐ Set the range switch to the appropriate position and place the detector on the check source bracket.
 - ☐ Verify the response is within the acceptable range as specified on the response value determination form/sticker for that check source.
 - ☐ Check the instrument alarm by adjusting the ALARM SET switch so that it is slightly less than the count rate of the source.
 - ☐ Remove the source from the detector.
 - ☐ Depress the RESET button. The alarm condition should clear.
 - ☐ If the pre-operational checks are satisfactory, complete the attached pre-operational check sticker. If either the alarm or the response check failed, notify the Health Physics Coordinator and obtain an operational ratemeter.
4. Return the check source to the E-Kit cabinet.

DOSE ASSESSMENT COORDINATOR CHECKLIST***GAMMA-10 PORTAL MONITOR RESPONSE CHECK***

This Startup Sequence augments HTP-ZZ-04135, Operation of the NNC Gamma-10 Portal Monitor. It is designed to be used in an Emergency Response Facility when a HP Operations Technician is not immediately available.

<p><u>NOTE:</u> The key for the electronics cabinet is attached to the response source.</p>

1. Verify 110 VAC power to the unit. If it is ON, proceed to Step 2. If the monitor is OFF, perform the following:
 - Supply 110 VAC to the unit through the UPS unit.
 - Set the NIMBIN power supply On-Off switch to ON and ensure the power light is illuminated.
 - Set the HV-2 NIM On-Off switch to on and ensure the Positive LED is illuminated.
2. Verify that a current calibration label is affixed to the Electronics Box and the pot settings, on the box, are the same as identified on the label.
3. Inspect the monitor for physical damage.
4. Verify no alarms are activated. (If an alarm is activated, clear the alarm and depress the RESET on the portal before continuing.)
5. Pass the Gamma-10 Response Source through the central region of the monitor. The Contamination alarm should activate on the box, a light and buzzer, and a red light on the portal should illuminate.
6. Depress the RESET button on the portal. The alarms should clear and the green operational light should remain lit.
7. If the monitor passes this check, initial and date the Pre-Operational Check Sticker affixed to the Electronics Box.

If the monitor fails the Pre-Operational Checks, tag the unit Out Of Service and notify the Health Physics Coordinator. Set up Frisking Station and have personnel entering the building and those already in the building frisk for contamination, if it is expected.

DOSE ASSESSMENT COORDINATOR CHECKLIST***AMS-3 STARTUP AND OPERATION***

This Startup Sequence augments HTP-ZZ-04137, Operation of the Eberline AMS-3. It is designed to be used in an Emergency Response Facility when a HP Operations Technician is not immediately available.

- 1) Connect AMS-3 (monitor) and air sampler to 110 VAC power.
- 2) Ensure monitor and air sampler have current calibration label.
- 3) Inspect the chart paper. Ensure an adequate supply of paper remains. If a RED line appears on the chart paper, notify Health Physics and continue the startup procedure.
- 4) Set monitor ON-OFF switch (located on back of monitor) to the ON position. Allow monitor to warm-up for 5 minutes.
- 5) Set BACKGROUND SUBTRACT switch to the ON position.
- 6) Push in "PUSH TO SET" on bottom left side of monitor and note the alarm setpoint value of 20,000 cpm (this is the first scale mark to the right of the 10^4 scale value).
- 7) Set alarm setpoint to 10^3 cpm by adjusting the SET knob while holding in "PUSH TO SET" button.
- 8) Remove sample holder located on the right front side of monitor by loosening the clamp and pulling out on handle.
- 9) Obtain check source from HP E-Kit Locker. Center source over sample holder opening with the recessed side of the source bracket facing the opening.
- 10) The audible alarm and the alarm light should energize (activate). If not notify Health Physics. (The startup procedure should not continue until the problem is resolved).
- 11) Press ACKNOWLEDGE button to silence alarm.
- 12) Verify count rate on chart recorder is as indicated on the response value listed on back of source bracket or a sticker on the instrument.
- 13) Remove check source. Ensure alarm light resets and count rate decreases on chart recorder.
- 14) Remove the filter in the filter holder. (Remove the filter retaining ring on the filter holder, this snaps on the end of the filter holder assembly, and may fit somewhat tight.)
- 15) Obtain a new filter from the HP Emergency Kit Locker and place it on the sample holder with the "ROUGH SIDE" of filter facing upwards.
- 16) Replace retaining ring on the sample holder and insert the sample holder into the sample chamber. Lock the filter holder into place.
- 17) Set the alarm setpoint to 2×10^4 cpm by adjusting the SET knob while holding in the "PUSH TO SET" button.
- 18) Place the toggle switch on the power cord to the "ON" position. The air sampler pump should start.
- 19) Ensure airflow as indicated on flowmeter is within the tolerance listed on the calibration label (read the flow at the center of the rotometer float ball.) If it is not, notify Health Physics.
- 20) Initial and date the Preoperational Check sticker.

DOSE ASSESSMENT COORDINATOR CHECKLIST

Emergency Operations Facility (EOF) TLD Issue Log							
TLD Label No.	Name (Last, First, MI)	Badge No.(UE) or SSN(nonUE)	Organization	TLD Label No.	Name (Last, First, MI)	Badge No.(UE) or SSN(nonUE)	Organization

BACK-UP EOF CHECKLIST

DATE: _____ TIME: _____

TRANSFER TO BACK-UP EOF	
<input type="checkbox"/> 1.	OSL -Contact SEMA and County EOCs and notify them of the decision to activate the Backup EOF due to the EOF being uninhabitable. Inform SEMA of the estimated time of arrival to the Backup EOF. <i>NOTE: This step can be satisfied by adding this information to a SENTRY Notification Form or by using backup communication lines.</i>
<input type="checkbox"/> 2.	OSL or RM -Contact the NRC Operations Center and notify them of the decision to startup the Backup EOF.
<input type="checkbox"/> 3.	OSL -Inform the appropriate EOF emergency personnel to relocate as indicated below. If personnel have not arrived at the facility, inform the Security Officer in the EOF to direct arrivals to the appropriate facility (Backup EOF or TSC). See attached map and layout for the Backup EOF: <i>NOTE: The BEOF has Emergency Packets for the staff. Personnel reporting to the TSC need to take their packet with them.</i> <ul style="list-style-type: none"> <input type="checkbox"/> Recovery Manager to the Backup EOF. <input type="checkbox"/> Protective Measures Coordinator to the Backup EOF. <input type="checkbox"/> Off-Site Liaison Coordinator to the Backup EOF. <input type="checkbox"/> Communicator, to the TSC to report to EC. <input type="checkbox"/> DACs, one to the Backup EOF and one to the TSC to report to EC. <input type="checkbox"/> Dose Assessment Staff, one to the Backup EOF and one to the TSC <input type="checkbox"/> Plant Assessment Coordinator to the TSC to report to TAC. <input type="checkbox"/> Logistics Support Coordinator to the TSC to work with the Admin. Coord. <input type="checkbox"/> JPIC Tech Rep (EOF) to the TSC and communicate with JPIC. <input type="checkbox"/> All Others – Contact the Admin Coordinator in the TSC to determine if EC needs additional personnel in the TSC. If not needed, personnel should be instructed to return home and standby their phones.
<input type="checkbox"/> 4.	RM -Direct the EC and TSC to take charge of all ERO operations including the responsibility for the following until the BEOF is activated. Maintain contact, to the extent possible, using Cellular phones while in route to Backup EOF <ul style="list-style-type: none"> <input type="checkbox"/> Protective Action Recommendations in accordance with EIP-ZZ-00212. <input type="checkbox"/> Dose Assessment/ FMT Coordination in accordance with EIP-ZZ-01211 and EIP-ZZ-00211 <input type="checkbox"/> Notifications in accordance with EIP-ZZ-00201. <i>NOTE: Notifications may be sent from the Control Room using SENTRY or be initiated from the TSC using backup communication lines.</i>

INTERIM OPERATION WHILE AWAITING BACKUP EOF ACTIVATION	
<input type="checkbox"/> 1.	Communicator - (Reporting to TSC) Announce your presence to the EC and coordinate notification completion with the DAC and TAC. <ul style="list-style-type: none"> <input type="checkbox"/> Make Notifications using the backup notification system. <li style="text-align: center;">or <input type="checkbox"/> Relay information to the Control Room communicator to use SENTRY. <i>NOTE: Ensure copies of all notifications are Faxed to the Backup EOF. (See attached drawing for phone #.)</i>

BACK-UP EOF CHECKLIST

<input type="checkbox"/> 2.	DAC - (Reporting to TSC) Work with the HPC and perform all applicable portions of the DAC Checklist Attachment 6. <i>NOTE: Field Monitoring Teams (FMTs) should remain under the control of the TSC DAC until the DAC in the Backup EOF is ready to assume control. Primary communications with the FMTs to the Backup EOF will be via cellular phones. Secondary radio communications can be established if necessary.</i>
<input type="checkbox"/> 3.	Dose Assessment Staff - (Reporting to TSC) Assist the DAC with FMT direction.
<input type="checkbox"/> 4.	PAC - (Reporting to TSC) Report to the TAC and perform applicable portions of Attachment 4.
<input type="checkbox"/> 5.	LSC - (Reporting to TSC) Work with the Admin Coordinator performing the applicable portions of Attachment 5.

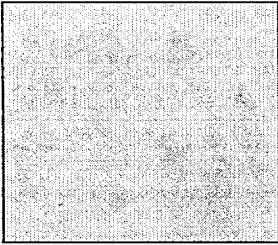
BACKUP EOF ACTIVATION

<input type="checkbox"/> 1.	OSL - Upon arrival at the Backup EOF. <input type="checkbox"/> Ensure equipment/materials are setup (Refer to Page 3 of this Attachment). <input type="checkbox"/> Ensure the MAGNEM PC is set up and operating including testing the printer. <input type="checkbox"/> Phones are removed from the cabinet, plugged in, and operable. <input type="checkbox"/> Introduce yourself and the RM to the appropriate State officials.
<input type="checkbox"/> 2.	RM - Recovery Manager contact the Emergency Coordinator, receive update, and request transfer of the following to the Backup EOF: <input type="checkbox"/> Protective Action Recommendations in accordance with EIP-ZZ-00212 . <input type="checkbox"/> Dose Assessment/ FMT Coordination in accordance with EIP-ZZ-01211 and EIP-ZZ-00211 . <i>Note: Field Monitoring Teams remain under the control of the TSC DAC.</i> <input type="checkbox"/> Notifications in accordance with EIP-ZZ-00201 .
<input type="checkbox"/> 3.	PMC - Perform applicable portions of PMC Checklist Attachment 3 using input from the TAC, PAC (in TSC) and DAC (Backup EOF).
<input type="checkbox"/> 4.	DAC - Coordinate with the Missouri Department of Health (DOH) and assume Field Monitoring Team coordination from the TSC, using cellular phones as the primary communication with the Teams. Perform applicable portions of Attachment 6.
<input type="checkbox"/> 5.	OSL - Perform applicable portions of the OSL Checklist Attachment 2 and ensure a comprehensive turnover of offsite notifications with the concurrence of the RM. <i>NOTE: DO NOT assume responsibility of notifications until PMC and DAC have assumed responsibility.</i>
<input type="checkbox"/> 6.	OSL - Report the assumption of responsibilities to the Recovery Manager.
<input type="checkbox"/> 7.	OSL - Log the Backup EOF activation time
<input type="checkbox"/> 8.	OSL - Inform the Emergency Coordinator, SEMA, County EOCs and the NRC of the assumption of responsibilities in the Backup EOF.

Off-Site Liaison Coordinator Signature

BACK-UP EOF CHECKLIST

BEOF LAYOUT

(F-08) 4902 4567 9167 PC 4503 4253 Rumor Control	(F-07) PC 9166 PC PMC FTC	(F-06) PC 9165 DAC	(F-05) 9274* 9164	9272* 9163
(F-16) 9230 9175 Co. Spkrs	(F-15) 9174 Tech Rep	(F-14) 9173 Recovery Manager	9172	9171
(F-23) 9182 JPIC 9258* Fax 9207*	(F-22) 9231 OSL/COMM	9180	9179	9178
	PC 9186 9187	9186	9185	9184
	PC 9190	9189	526-9188 Telephone Operators	

All 9XXX phone numbers are 526-9XXX

All 4XXX phone numbers are 634-4XXX

* Indicates analog phone line

Field Monitoring Team Cellular Phones

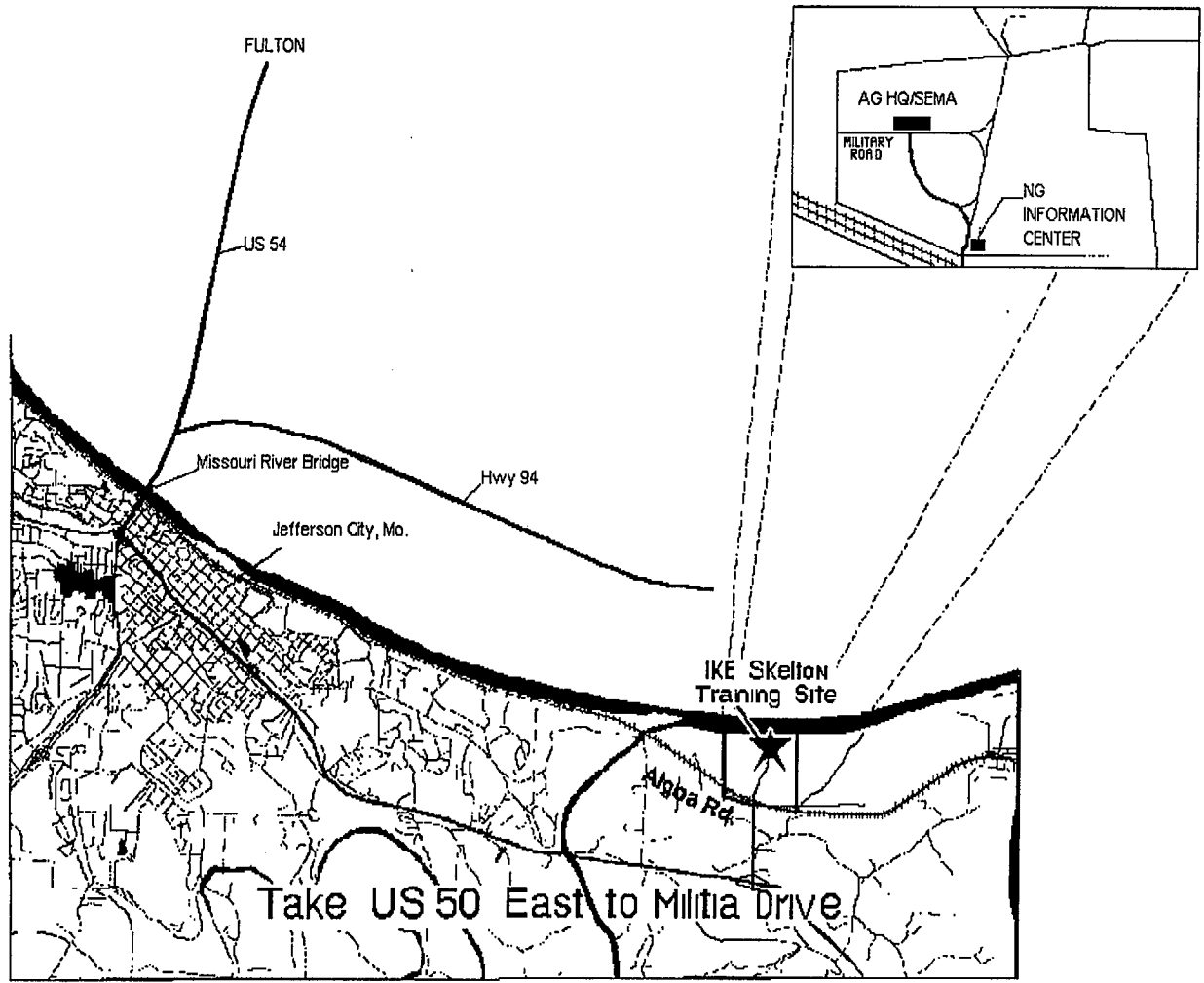
Chem Vehicle (573) 220-0173

HPTS Vehicle (573) 220-0628

I&C Vehicle (573) 220-2507

Radio for FMT communications is located in the SEMA Radio Room

When dialing out, use 8 (area code) XXX-XXXX.



CALLAWAY PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE
EIP-ZZ-00200
AUGMENTATION OF THE EMERGENCY ORGANIZATION

RESPONSIBLE DEPARTMENT Emergency Preparedness

PROCEDURE OWNER S. J. Crawford

WRITTEN BY S. J. Crawford

PREPARED BY S. J. Crawford

APPROVED BY Warren A. Witt

DATE ISSUED 9-14-01



This procedure contains the following:

Pages	<u>1</u>	through	<u>4</u>
Attachments	<u>1</u>	through	<u>4</u>
Tables	<u> </u>	through	<u> </u>
Figures	<u> </u>	through	<u> </u>
Appendices	<u> </u>	through	<u> </u>
Checkoff Lists	<u> </u>	through	<u> </u>

This procedure has 0 checkoff list(s) maintained in the mainframe computer.

Conversion of commitments to TRS reference/hidden text completed by Revision Number:

Non-T/S Commitments 007

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AUGMENTATION OF THE EMERGENCY ORGANIZATION

1 PURPOSE AND SCOPE

1.1 PURPOSE

This procedure provides guidance for the augmentation of the Callaway Plant Emergency Response Organization (ERO).

1.2 SCOPE

- 1.2.1 This procedure outlines the proper use of the Callaway Plant's Emergency Paging System.

2 DEFINITIONS

- 2.1 Callaway Plant Emergency Paging System - An alpha/numeric paging system that uses a computer program and modem to alert and activate the Emergency Response Organization.
- 2.2 Emergency Response Facility (ERF) - A collective name for specifically designated locations which are equipped to facilitate the control and coordination of emergency activities and assessment.
- 2.3 Emergency Response Personnel - AmerenUE and/or contract personnel trained to fill emergency response positions within the Emergency Response Organization.
- 2.4 Fitness for Duty - Being prepared to report for duty and function effectively, meaning abstinence from alcoholic intake at least five (5) hours proceeding working tour.
- 2.5 System Activation - Initiating the Emergency Paging System for an event, such as an Emergency, Drill, or Test.
- 2.5.1 Emergency - An actual event, thus giving the message to the responders that an emergency has been declared, this is not a drill, and response to their Emergency Response Facility is necessary.
- 2.5.2 Drill - A planned mock event, thus giving the message to the responders that this is a drill, but response to their Emergency Response Facility is still necessary.

- 2.5.3 Test - A planned event, where the message to the responders is that a test is being conducted, only a test, and response to their Emergency Response Facility is not required.
- 2.6 System Administrator - Member of the Emergency Preparedness Department that oversees changes to the System and interfaces with the System vendor.

3 RESPONSIBILITIES

- 3.1 The Shift Supervisor (SS)/Emergency Coordinator (EC) is responsible for providing the Secondary Alarm Station (SAS) Operator with proper information to initiate the Callaway Plant Paging System.
- 3.2 The SAS Operator is responsible for activating the Callaway Plant Emergency Paging System as per **KOA-ZZ-00200**, Activation of the Callaway Plant Emergency Paging System.

4 INITIATING CONDITIONS

- 4.1 Implement this procedure upon any of the following conditions:
- Declaration of an Alert.
 - Declaration of a Site Emergency.
 - Declaration of a General Emergency.
 - At the discretion of the Shift Supervisor/Emergency Coordinator.

5 PROCEDURE

5.1 CALLAWAY PLANT EMERGENCY PAGING SYSTEM ACTIVATION

- 5.1.1 The SS/EC notifies the Secondary Alarm Station (SAS) Operator to activate the Callaway Plant Emergency Paging System using **KOA-ZZ-00200**, Activation of the Callaway Plant Emergency Paging System.

- 5.1.2 The SAS Operator records responses to the page for Rapid Responders on Attachment 1 by retrieving Audix messages per **KOA-ZZ-00200**.
- 5.1.3 The SAS Operator forwards Attachment 1 to the SS/EC when complete or in approximately fifteen (15) minutes.
- 5.1.4 The SAS operator obtains the Control Room's approval to reinitiate the page if incomplete response is attained within the first 15 minutes.
- 5.1.5 After the second page if positions on Attachment 1 remain unfilled the EC/SS should initiate a manual callout per section 5.3.
- 5.1.6 When Attachment 1 is complete, FAX it to the TSC (68604) and EOF (64900).
- 5.2 EMERGENCY RESPONSE FACILITIES (ERFS)
- 5.2.1 Each Emergency Response Facility is responsible for their respective mailbox. The activity of verifying ERO Staffing for each facility could be assigned to the Logistics Support Group in the EOF, or the Admin Coordinator in the TSC.
- 5.2.2 To access the Audix mailbox, dial 64777 and enter the proper extension listed below, followed by the (#) key. Press the (#) key again for the password.
- TSC Emergency Response Organization – 68400
 - EOF/JPIC Emergency Response Organization – 68202
- 5.2.3 Follow the Audix directions to get messages.
- 5.2.4 Do NOT delete messages. Press the (#) key to skip messages without deleting. Emergency Preparedness WILL delete the messages after the event.
- 5.2.5 Fill out Attachment 2 for the TSC and Attachment 3 for the EOF/JPIC.
- 5.3 FAILURE OF THE PAGING SYSTEM
- 5.3.1 If the paging system should fail or if some of the positions fail to respond fill the position using the Emergency Telephone Directory.

- 5.3.2 Using the Emergency Telephone Directory, and Attachment 4, locate the page that contains the list of personnel qualified for the position desired and call each until a proper response is received.

<p><u>NOTE:</u> The Responders MUST be asked if they are fit for duty.</p>
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6 REFERENCES

- 6.1 **KOA-ZZ-00200**, Activation of the Callaway Plant Emergency Paging System.

7 RECORDS

- 7.1 After the event, send Attachments 1, 2, 3, and 4 to Emergency Preparedness for proper dissemination to QA Record File K171.0010.

PAGER RESPONSE
(Audix 64600)

RAPID RESPONDERS
EMERGENCY RESPONSE ORGANIZATION

| DATE _____ TIME OF DECLARATION _____

<u>NAME</u>	<u>POSITION</u>	<u>ESTIMATED TIME OF ARRIVAL</u>
	EDO/EMERGENCY COORDINATOR (EDO/EC)	
	TECHNICAL ASSESSMENT COORDINATOR (TAC)	
	TSC COMMUNICATOR (ENS)	
	RECOVERY MANAGER (RM)	
	OFF-SITE LIAISON COORDINATOR (OSL)	
	DOSE ASSESSMENT COORDINATOR (DAC)	
	HEALTH PHYSICS COORDINATOR (HPC)	

TSC EMERGENCY RESPONSE ORGANIZATION

DATE _____ TIME OF DECLARATION _____

PAGER RESPONSE
(Audix 68202)

EOF/JPIC EMERGENCY RESPONSE ORGANIZATION

DATE _____ TIME OF DECLARATION _____

<u>NAME</u>	<u>POSITION</u>	<u>NUMBER REQUIRED</u>	<u>ESTIMATED TIME OF ARRIVAL</u>
	COMPANY SPOKESPERSON	1	
	DOSE ASSESSMENT COORDINATOR (DAC)	1	
	EOF COMMUNICATOR	1	
	JPIC ADMINISTRATOR	1	
	JPIC COORDINATOR	1	
	JPIC EDITOR	1	
	JPIC MEDIA HOST	1	
	JPIC TECHNICAL REPRESENTATIVE	2	
	LOGISTICAL SUPPORT COORDINATOR (LSC)	1	
	LOGISTICAL SUPPORT STAFF	2	
	PLANT ASSESSMENT COORDINATOR (PAC)	1	
	PLANT ASSESSMENT STAFF	1	
	PROTECTIVE MEASURES COORDINATOR (PMC)	1	

MANUAL CALLOUT LIST

	POSITION	Number Required	ACCEPTING INDIVIDUAL (name)
1	Rad Chem Support	14	
2	Electricians	2	
3	Protective Measures Coordinator (PMC)	1	
4	Chemistry Coordinator	1	
5	Operations Support Coordinator (OSC)	1	
6	Emerg. Team Coordinator Electrical	1	
7	Emerg. Team Coordinator Mechanical	1	
8	Control Room (CR)/TSC Liaison	1	
9	TSC Lead Engineer	1	
10	Dose Assessment Coordinator	1	
11	EOF Communicator	1	

MANUAL CALLOUT LIST

	POSITION	Number Required	ACCEPTING INDIVIDUAL (name)
12	Mechanics	2	
13	I&C Engineer	1	
14	Reactor/Nuclear Engineer	1	
15	Mechanical Engineer	1	
16	Electrical Engineer	1	
17	Plant Assessment Coordinator (PAC)	1	
18	Engineering Status Board/Logkeepers	3	
19	Plant Assessment Staff	1	
20	Stores Personnel	1	
21	Security Coordinator	1	
22	Administrative Coordinator	1	
23	Logistical Support Coordinator	1	
24	Logistical Support Staff	2	
25	Company Spokesperson	1	
26	JPIC Technical Representative	2	
27	JPIC Coordinator	1	
28	JPIC Administrator	1	
29	JPIC Editor	1	
30	JPIC Media Host	1	
31	I&C Technician	1	