

DETROIT EDISON - FERMI 2
AUTOMATED RECORD MANAGEMENT
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12/12/00

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DTC	Doc. Serial Number	Page	Rev	Number Copies	Cnt Lvl	Issue Date	Sec Status
TPEPT	EP-102		15	1	ST	12/11/00	AFC
TPEPT	EP-103		14	1	ST	12/11/00	AFC
TPEPT	EP-104		14	1	ST	12/11/00	AFC
TPEPT	EP-105		14	1	ST	12/11/00	AFC

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=====
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Ref: ca6076

A045

UNUSUAL EVENT

Revision Summary

- 1) Revised step 4.3 to notify Province of Ontario immediately after the NRC.
- 2) Changed Nuclear Shift Supervisor to Shift Manager in step 4.4.
- 3) Revised Attachment 1 to remove NRC Resident Notification.

Implementation Plan

- 1) This revision goes into effect upon issuance.

Attachments

CM

- 1 111500 Unusual Event - Checklist for Immediate Actions
- 2 081095 Unusual Event - Checklist for Follow-Up Actions

Enclosures - None

<i>Information and Procedures</i>				
DSN	Revision	DCR #	DTC	File #
EP-102	15	00-1888	TPEPT	1703.10
IP Code	Date Approved	Released By	Date Issued	Recipient
1	12-11-00	D. Adams/s/	12-12-00	935

CONTROLLED

1.0 PURPOSE

Prescribes actions to be taken when an emergency condition has been classified as an Unusual Event.

2.0 USE REFERENCES

- 2.1 EP-101, Classification of Emergencies
- 2.2 EP-204-01, Damage Control and Rescue Teams
- 2.3 EP-220, Personnel Monitoring and Radiological Emergency Teams
- 2.4 EP-290, Emergency Notifications
- 2.5 EP-402, Responsibilities of the Recovery Organization
- 2.6 EP-530, Assembly and Accountability and Onsite Protective Actions
- 2.7 EP-542, Computer-Based Offsite Dose Assessment – Airborne Release
- 2.8 20.000.22, Plant Fires
- 2.9 MLS05, Notifications/General Regulatory Reporting Requirements
- 2.10 Off-Site Dose Calculation Manual

3.0 ENTRY CONDITIONS

An emergency condition has been classified as an UNUSUAL EVENT in accordance with EP-101.

4.0 GENERAL INFORMATION

- 4.1 **Definition of Unusual Event:** Events are in process or have occurred that indicate a potential degradation of the level of safety of the plant. No release of radioactive material requiring offsite response or monitoring is expected.

- 4.2 The purpose of offsite notification is to:
- 4.2.1 Ensure the first step in any response later found to be necessary has been carried out.
 - 4.2.2 Bring the operating staff to a state of readiness.
 - 4.2.3 Provide systematic handling of unusual events information and decision making.
- 4.3 Emergency notifications of government agencies are detailed in EP-290. State and local government agencies must be notified within 15 minutes of declaration of the emergency. The Nuclear Regulatory Commission (NRC) must be notified immediately following the offsite authorities but not to exceed 1 hour. The Province of Ontario is notified after the NRC.
- 4.4 Shift Manager is the Emergency Director until relieved of this responsibility by the Plant Manager/alternate or until the emergency situation is terminated. The Shift Manager shall remain in the plant to supervise plant operations.

5.0 IMMEDIATE ACTIONS

- 5.1 Complete Unusual Event - Checklist for Immediate Actions (Attachment 1).
- 5.1.1 Attachment 1 must be signed by the Emergency Director.

6.0 PROCEDURE - None

7.0 FOLLOW-UP ACTIONS

- 7.1 Complete Unusual Event - Checklist for Follow-Up Actions (Attachment 2).
- 7.1.1 Attachment 2 must be signed by the Emergency Director.
- 7.2 Continue to monitor the progress of Emergency Teams in controlling the emergency.
- 7.3 Ensure additional personnel support and equipment are made available as necessary.

- 7.4 Periodically make follow-up status reports to ensure all operations personnel and emergency response personnel are kept informed of:
 - 7.4.1 Personnel hazards
 - 7.4.2 Plant lineups
 - 7.4.3 Corrective actions
 - 7.4.4 Steps taken to control or mitigate the emergency
- 7.5 Establish a long-term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 7.6 The emergency situation may be terminated if:
 - 7.6.1 Release of radioactive materials has ceased or is within Offsite Dose Calculation Manual (ODCM) limits; **and**
 - 7.6.2 No further potential exists for uncontrolled releases of radioactive materials to the environment; **and**
 - 7.6.3 The reactor and associated systems are in a stable, safe condition.
- 7.7 If the emergency situation is terminated:
 - 7.7.1 A summary of the termination shall be provided to the State of Michigan, Monroe County, and Wayne County in accordance with EP-290.
 - 7.7.2 A summary of the termination shall be provided to the NRC.
 - 7.7.3 Carry out the actions described in EP-402, Responsibilities of the Recovery Organization, as applicable.
- 7.8 Forward all completed Unusual Event - Checklist for Immediate Actions (Attachment 1) and Unusual Event - Checklist for Follow-Up Actions (Attachment 2) to Supervisor, RERP, 164 NOC.

8.0 RECORDS

8.1 The following are required records and shall be retained or dispositioned in accordance with established requirements:

8.1.1 Unusual Event - Checklist for Immediate Actions (Attachment 1)

8.1.2 Unusual Event - Checklist for Follow-Up Actions (Attachment 2)

END OF TEXT

UNUSUAL EVENT - CHECKLIST FOR IMMEDIATE ACTIONS

- | | Complete | NA | |
|-----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | | On-shift personnel notified. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Fermi 2 Emergency Call Out System activated in accordance with EP-290 (Optional - at ED discretion based on likelihood of escalation). |
| 3. | <input type="checkbox"/> | | Immediate notifications to offsite authorities in accordance with EP-290. |
| 4. | <input type="checkbox"/> | | NRC Operations Center notified immediately following offsite authorities, not to exceed 1 hour, in accordance with EP-290. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological Emergency and Personnel Monitoring Teams activated (EP-220). |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | Fire Brigade activated (20.000.22). |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | Damage Control and Rescue Teams activated (EP-204-01). |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite emergency support requested (EP-290). |
| 9. | <input type="checkbox"/> | | Province of Ontario notified in accordance with EP-290. |
| 10. | <input type="checkbox"/> | | Nuclear Information notified in accordance with EP-290. |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological sampling ordered (EP-220/ODCM). |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite dose assessment initiated (EP-542/ODCM). |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Onsite protective actions ordered (EP-530). |
| 14. | <input type="checkbox"/> | | "Unusual Event" entered into Emergency Response Information System (ERIS). |

Emergency Director signature _____

Forward completed form to Supervisor, RERP, 164 NOC

UNUSUAL EVENT - CHECKLIST FOR FOLLOW-UP ACTIONS

Complete NA

- 1. Additional Control Room personnel placed on standby.
- 2. Follow-up actions of Abnormal and Emergency Operating Procedures completed.
- 3. Assess plant conditions and reclassify if necessary in accordance with EP-101.
- 4. Follow-up reports completed in accordance with EP-290.
- 5. On-shift personnel informed of changing conditions.
- 6. All reporting requirements met in accordance with MLS05.
- 7. Long term organization established.
- 8. Emergency terminated.
- 9. Emergency termination notification and summary to offsite authorities in accordance with EP-290.
- 10. Emergency termination notification and summary to NRC Operations Center in accordance with EP-290.
- 11. Recovery initiated (EP-402).
- 12. Update ERIS emergency classification entry.

Comments: _____

Emergency Director signature _____

Forward completed form to Supervisor, RERP, 164 NOC

ALERT

Revision Summary

- 1) Revised step 4.4 to notify Province of Ontario immediately after the NRC.
- 2) Changed Nuclear Shift Supervisor to Shift Manager throughout text.

Implementation Plan

- 1) This revision goes into effect upon issuance.

Attachments

CM

- 1 062199 Alert - Checklist for Immediate Actions
- 2 081095 Alert - Checklist for Follow-Up Actions

Enclosures - None

<i>Information and Procedures</i>				
DSN EP-103	Revision 14	DCR # 00-1889	DTC TPEPT	File # 1703.10
IP Code I	Date Approved 12-11-00	Released By D. Adams/s/	Date Issued 12-12-00	Recipient 935

CONTROLLED

1.0 PURPOSE

Prescribes actions to be taken when an emergency has been classified as an Alert.

2.0 USE REFERENCES

- 2.1 EP-101, Classification of Emergencies
- 2.2 EP-204-01, Damage Control and Rescue Teams
- 2.3 EP-220, Personnel Monitoring and Radiological Emergency Teams
- 2.4 EP-290, Emergency Notifications
- 2.5 EP-402, Responsibilities of the Recovery Organization
- 2.6 EP-530, Assembly and Accountability and Onsite Protective Actions
- 2.7 EP-542, Computer-Based Offsite Dose Assessment – Airborne Release
- 2.8 20.000.22, Plant Fires
- 2.9 MLS05, Notifications/General Regulatory Reporting Requirements
- 2.10 Off-Site Dose Calculation Manual

3.0 ENTRY CONDITIONS

An emergency condition has been classified as an ALERT in accordance with EP-101.

4.0 GENERAL INFORMATION

- 4.1 **Definition of Alert** - Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the Environmental Protection Agency (EPA) Protection Action Guidelines exposure levels.

- 4.2 The purpose of the Alert declaration is to:
- 4.2.1 Ensure that emergency personnel are readily available to respond if the situation becomes more serious or to perform confirmatory radiation monitoring if required.
 - 4.2.2 Provide offsite authorities with current status information.
- 4.3 The Technical Support Center (TSC) and Operational Support Center (OSC) emergency response facilities are activated with the declaration of an ALERT. The Fermi Emergency Call Out System must be activated and assembly of all personnel within the Protected Area ordered to achieve staffing of the facilities. Control Room personnel must perform these duties as soon as possible after declaration of an Alert.
- 4.4 Emergency notifications to government agencies are detailed in EP-290. State and local governments must be notified within 15 minutes of declaration of the emergency. The Nuclear Regulatory Commission (NRC) must be notified immediately following the offsite authorities but not to exceed 1 hour. Notify Canada immediately after the NRC.
- 4.5 The Shift Manager shall continue to act as Emergency Director until relieved of this responsibility by the Plant Manager/alternate, or until the emergency situation is terminated.
- 4.5.1 When the Plant Manager/alternate relieves the Shift Manager and the Technical Support Center (TSC) is functional, the functions of the Emergency Director shall be shifted to the TSC, including offsite notifications, dose assessment, and protective action recommendations.
 - 4.5.2 The Shift Manager shall remain in the plant to supervise plant operations.
 - 4.5.3 The Control Room shall maintain contact with the NRC.

5.0 IMMEDIATE ACTIONS

- 5.1 Complete Alert - Checklist for Immediate Actions (Attachment 1).
- 5.1.1 Attachment 1 must be signed by the Emergency Director.

6.0 PROCEDURE - None

7.0 FOLLOW-UP ACTIONS

7.1 Complete Alert - Checklist for Follow-Up Actions (Attachment 2).

7.1.1 Attachment 2 must be signed by the Emergency Director.

7.2 Continue to monitor the progress of Emergency Teams in controlling the emergency.

7.3 Ensure that additional personnel support and equipment are made available as necessary.

7.4 Periodically make follow-up status reports to ensure that all operations personnel and emergency response personnel are kept informed of:

7.4.1 Personnel hazards

7.4.2 Plant lineups

7.4.3 Corrective actions

7.4.4 Steps taken to control or mitigate the emergency

7.5 Periodically make follow-up reports to the State of Michigan, Monroe County, Wayne County, Nuclear Information, and NRC using EP-290.

7.6 Establish long-term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).

7.7 The Emergency Director may de-escalate the emergency classification to an Unusual Event if the emergency conditions no longer meet the requirements for an Alert Classification.

7.7.1 If de-escalation is ordered, enter EP-102, Unusual Event.

7.8 The emergency situation may be terminated if:

7.8.1 Release of radioactive materials has ceased or is within Offsite Dose Calculation Manual (ODCM) limits; **and**

7.8.2 No further potential exists for uncontrolled releases of radioactive materials to the environment; **and**

7.8.3 The reactor and associated systems are in a stable, safe condition.

7.9 If the emergency classification is terminated or de-escalated:

- 7.9.1 A summary of the termination or de-escalation shall be provided to the State of Michigan, Wayne County and Monroe County in accordance with EP-290.
- 7.9.2 A summary of the termination or de-escalation shall be provided to the NRC.
- 7.9.3 Carry out the actions described in EP-402, Responsibilities of the Recovery Organization, as applicable.

7.10 Completed forms shall be forwarded to the Supervisor, RERP for disposition.

8.0 RECORDS

8.1 The following are required records and shall be retained or dispositioned in accordance with established requirements:

- 8.1.1 All completed Alert - Checklist for Immediate Actions (Attachment 1)
- 8.1.2 All completed Alert - Checklist for Follow-Up Actions (Attachment 2)

END OF TEXT

ALERT - CHECKLIST FOR IMMEDIATE ACTIONS

Complete NA

1. On-shift personnel notified.
2. Fermi 2 Emergency Call Out System activated in accordance with EP-290.
3. Assembly and accountability ordered within the Protected Area in accordance with EP-530.
4. TSC and OSC activated.
5. Immediate notifications to offsite authorities in accordance with EP-290.
6. NRC Operations Center notified immediately following offsite authorities, not to exceed 1 hour, in accordance with EP-290.
7. Radiological Emergency and Personnel Monitoring Teams activated (EP-220).
8. Fire Brigade activated (20.000.22).
9. Damage Control and Rescue Teams activated (EP-204-01).
10. Offsite emergency support requested (EP-290).
11. Province of Ontario notified in accordance with EP-290.
12. Nuclear Information notified in accordance with EP-290.
13. Radiological sampling ordered (EP-220/ODCM).
14. Offsite dose assessment initiated (EP-542/ODCM).
15. Onsite protective actions ordered (EP-530).
16. "Alert" entered into Emergency Response Information System (ERIS).
17. Emergency Response Data System (ERDS) activated.

Emergency Director signature _____

Forward completed form to Supervisor, RERP, 164 NOC

ALERT - CHECKLIST FOR FOLLOW-UP ACTIONS

Complete NA

- 1. Additional Control Room personnel placed on standby.
- 2. Follow-up actions of Abnormal and Emergency Operating Procedures completed.
- 3. Assess plant conditions and reclassify if necessary in accordance with EP-101.
- 4. TSC and OSC functional.
- 5. Follow-up reports completed in accordance with EP-290.
- 6. On-shift personnel informed of changing conditions.
- 7. All reporting requirements met in accordance with MLS05.
- 8. Long term organization established.
- 9. INPO and Nuclear Insurers notified (EP-290).
- 10. Emergency terminated or deescalated.
- 11. Emergency termination or deescalation notification and summary to offsite authorities in accordance with EP-290.
- 12. Emergency termination or deescalation notification and summary to NRC Operations Center in accordance with EP-290.
- 13. Recovery initiated (EP-402).
- 14. Update ERIS emergency classification entry.

Comments: _____

Emergency Director signature _____

Forward completed form to Supervisor, RERP, 164 NOC

SITE AREA EMERGENCY

Revision Summary

- 1) Revised step 4.4 to notify Province of Ontario immediately after the NRC.
- 2) Changed Nuclear Shift Supervisor to Shift Manager throughout text.

Implementation Plan

- 1) This revision goes into effect upon issuance.

Attachments

CM

- 1 062199 Site Area Emergency - Checklist for Immediate Actions
- 2 081095 Site Area Emergency - Checklist for Follow-Up Actions

Enclosures - None

<i>Information and Procedures</i>				
DSN EP-104	Revision 14	DCR # 00-1890	DTC TPEPT	File # 1703.10
IP Code I	Date Approved 12-11-00	Released By D. Adams/s/	Date Issued 12-12-00	Recipient 935

CONTROLLED

1.0 PURPOSE

Prescribes actions to be taken when an emergency condition has been classified as a Site Area Emergency.

2.0 USE REFERENCES

- 2.1 EP-101, Classification of Emergencies
- 2.2 EP-204-01, Damage Control and Rescue Teams
- 2.3 EP-220, Personnel Monitoring and Radiological Emergency Teams
- 2.4 EP-290, Emergency Notifications
- 2.5 EP-402, Responsibilities of the Recovery Organization
- 2.6 EP-530, Assembly and Accountability and Onsite Protective Actions
- 2.7 EP-542, Computer-Based Offsite Dose Assessment – Airborne Release
- 2.8 20.000.22, Plant Fires
- 2.9 MLS05, Notifications/General Regulatory Reporting Requirements
- 2.10 Off-Site Dose Calculation Manual

3.0 ENTRY CONDITIONS

An emergency condition has been classified as a SITE AREA EMERGENCY in accordance with EP-101.

4.0 GENERAL INFORMATION

- 4.1 **Definition of Site Area Emergency:** Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed Environmental Protection Agency (EPA) Protective Action Guideline exposure levels except at or near the site boundary.

4.2 The purpose of the Site Area Emergency declaration is to:

4.2.1 Ensure that response centers are manned

4.2.2 Ensure that monitoring teams are dispatched

4.2.3 Ensure that personnel required for evacuation of near-site areas are at duty stations if the situation becomes more serious

4.2.4 Provide consultation with offsite authorities

4.2.5 Provide updates for the public through offsite authorities

NOTE: If assembly and accountability was ordered for a lower emergency classification, it may be omitted at the Site Area Emergency at the discretion of the Emergency Director.

4.3 The Technical Support Center (TSC), Operational Support Center (OSC), Emergency Operations Facility (EOF) and Joint Public Information Center (JPIC) emergency response facilities are activated with the declaration of a Site Area Emergency. The Fermi 2 Emergency Call Out System must be activated and assembly of all personnel within the Protected Area ordered to achieve staffing of the facilities. Control Room personnel must perform these duties as soon as possible after declaration of a Site Area Emergency.

4.4 Emergency notification of government agencies is detailed in EP-290. State and local governments must be notified within 15 minutes of declaration of the emergency. The Nuclear Regulatory Commission (NRC) must be notified immediately following the offsite authorities but not to exceed 1 hour. Notify Canada immediately after the NRC.

4.5 The Shift Manager shall continue to act as Emergency Director until relieved of this responsibility by the Plant Manager/alternate or until the emergency situation is terminated.

4.5.1 When the Plant Manager/alternate relieves the Shift Manager and the TSC is functional, the functions of the Emergency Director shall be shifted to the TSC, including offsite notifications, dose assessment, and protective action recommendations.

4.5.2 The Shift Manager shall remain in the plant to supervise plant operations.

4.5.3 Notifications to the NRC shall be made from the Control Room throughout the emergency, unless otherwise ordered by the Emergency Director.

- 4.6 Once the EOF is declared functional, the Emergency Officer relieves the Emergency Director of the following responsibilities:

NOTE: Notifications to the NRC shall be made from the Control Room throughout the emergency, unless otherwise ordered by the Emergency Director.

- 4.6.1 Notification of and communications with government agencies
 - 4.6.2 Offsite radiological surveys and environmental sampling
 - 4.6.3 Dose assessment/projections, meteorology
 - 4.6.4 Protective Action Recommendations
- 4.7 When a Site Area Emergency is declared and the EOF is declared functional, the Emergency Officer shall assume overall responsibility for the emergency response. The Emergency Director reports directly to the Emergency Officer. The Emergency Officer is directly responsible for technical review of information and updates provided to the JPIC for dissemination to the press and the public.

5.0 IMMEDIATE ACTIONS

- 5.1 Complete Site Area Emergency - Checklist for Immediate Actions (Attachment 1).
- 5.1.1 Attachment 1 must be signed by the Emergency Director or the Emergency Officer.

6.0 PROCEDURE - None

7.0 FOLLOW-UP ACTIONS

- 7.1 Complete Site Area Emergency - Checklist for Follow-Up Actions (Attachment 2).
- 7.1.1 Attachment 2 must be signed by the Emergency Director or the Emergency Officer.
- 7.2 Continue to monitor the progress of Emergency Teams in controlling the emergency.
- 7.3 Ensure that additional personnel support and equipment are made available as necessary.

- 7.4 Periodically make follow-up status reports to on-shift personnel. Ensure all operations personnel and emergency response personnel are kept informed of:
 - 7.4.1 Personnel hazards
 - 7.4.2 Plant lineups
 - 7.4.3 Corrective actions
 - 7.4.4 Steps taken to control or mitigate the emergency
 - 7.4.5 Status of any offsite protective actions ordered by the state
- 7.5 Periodically make follow-up reports to the State of Michigan, Monroe County, Wayne County, Nuclear Information, and NRC using EP-290
- 7.6 Establish a long-term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 7.7 The Emergency Director may de-escalate to an appropriate, lower emergency classification if:
 - 7.7.1 The emergency condition(s) no longer meets the requirements for a Site Area Emergency; **and**
 - 7.7.2 The actual and potential offsite and onsite radiological hazard does not exceed the Offsite Dose Calculation Manual (ODCM) gaseous effluent limits for dose and dose rate or has been eliminated; **and**
 - 7.7.3 The Emergency Officer concurs (if the EOF is functional).
- 7.8 If the emergency situation is de-escalated, enter EP-103, Alert or EP-102, Unusual Event, as applicable.
- 7.9 The emergency situation may be terminated if:
 - 7.9.1 Release of radioactive materials has ceased or is within ODCM limits, **and**
 - 7.9.2 No further potential exists for uncontrolled releases of radioactive materials to the environment, **and**
 - 7.9.3 The reactor and associated systems are in a stable, safe condition, **and**
 - 7.9.4 Termination of the emergency will not adversely impact offsite protective actions that are in progress.

7.10 If the emergency classification is terminated or de-escalated:

- 7.10.1 A summary of the termination or de-escalation shall be provided to the State of Michigan in accordance with EP-290.
- 7.10.2 A summary of the termination or de-escalation shall be provided to the NRC.
- 7.10.3 Carry out the actions described in EP-402, Responsibilities of the Recovery Organization, as applicable.

7.11 Completed forms shall be forwarded to the Supervisor, RERP for disposition.

8.0 RECORDS

8.1 The following are required records and shall be retained or dispositioned in accordance with established requirements:

- 8.1.1 All completed Site Area Emergency - Checklist for Immediate Actions (Attachment 1)
- 8.1.2 All completed Site Area Emergency - Checklist for Follow-Up Actions (Attachment 2)

END OF TEXT

SITE AREA EMERGENCY - CHECKLIST FOR IMMEDIATE ACTIONS

- | | Complete | NA | |
|-----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | | On-shift personnel notified. |
| 2. | <input type="checkbox"/> | | Fermi 2 Emergency Call Out System activated in accordance with EP-290. |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | Assembly and accountability ordered within the Protected Area in accordance with EP-530. |
| 4. | <input type="checkbox"/> | | TSC, OSC, EOF, and JPIC activated. |
| 5. | <input type="checkbox"/> | | Immediate notifications to offsite authorities in accordance with EP-290. |
| 6. | <input type="checkbox"/> | | NRC Operations Center notified immediately following offsite authorities, not to exceed 1 hour, in accordance with EP-290. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological Emergency and Personnel Monitoring Teams activated (EP-220). |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | Fire Brigade activated (20.000.22). |
| 9. | <input type="checkbox"/> | <input type="checkbox"/> | Damage Control and Rescue Teams activated (EP-204-01). |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite emergency support requested (EP-290). |
| 11. | <input type="checkbox"/> | | Province of Ontario notified in accordance with EP-290. |
| 12. | <input type="checkbox"/> | | Nuclear Information notified in accordance with EP-290. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological sampling ordered (EP-220/ODCM). |
| 14. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite dose assessment initiated (EP-542/ODCM). |
| 15. | <input type="checkbox"/> | <input type="checkbox"/> | Onsite protective actions ordered (EP-530). |
| 16. | <input type="checkbox"/> | | "Site Area Emergency" entered into Emergency Response Information System (ERIS). |
| 17. | <input type="checkbox"/> | | Emergency Response Data System (ERDS) activated. |

Emergency Director/Emergency Officer signature _____

Forward completed form to Supervisor, RERP, 164 NOC

SITE AREA EMERGENCY - CHECKLIST FOR FOLLOW-UP ACTIONS

- | | Complete | NA | |
|-----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Additional Control Room personnel placed on standby. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Follow-up actions of Abnormal and Emergency Operating Procedures completed. |
| 3. | <input type="checkbox"/> | | TSC, OSC, EOF, and JPIC functional. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | Assess plant conditions and reclassify if necessary in accordance with EP-101. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Follow-up reports completed in accordance with EP-290. |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | On-shift personnel informed of changing conditions. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | All reporting requirements met in accordance with MLS05. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | Long term organization established. |
| 9. | <input type="checkbox"/> | | INPO and Nuclear Insurers notified (EP-290). |
| 10. | <input type="checkbox"/> | | Emergency terminated or deescalated. |
| 11. | <input type="checkbox"/> | | Emergency termination or deescalation notification and summary to offsite authorities in accordance with EP-290. |
| 12. | <input type="checkbox"/> | | Emergency termination or deescalation notification and summary to NRC Operations Center in accordance with EP-290. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Recovery initiated (EP-402). |
| 14. | <input type="checkbox"/> | | Update ERIS emergency classification entry. |

Comments: _____

Emergency Director/Emergency Officer signature _____

Forward completed form to Supervisor, RERP, 164 NOC

GENERAL EMERGENCY

Revision Summary

- 1) Revised step 4.4 to notify Province of Canada immediately after the NRC.
- 2) Changed Nuclear Shift Supervisor to Shift Manager throughout text.

Implementation Plan

- 1) This revision goes into effect upon issuance.

Attachments

CM

- 1 062199 General Emergency - Checklist for Immediate Actions
- 2 081095 General Emergency - Checklist for Follow-Up Actions

Enclosures - None

<i>Information and Procedures</i>				
DSN EP-105	Revision 14	DCR # 00-1891	DTC TPEPT	File # 1703.10
IP Code 1	Date Approved 12-11-00	Released By D. Adams/s/	Date Issued 12-12-00	Recipient 935

CONTROLLED

1.0 PURPOSE

Prescribes actions to be taken when an emergency has been classified as a General Emergency.

2.0 USE REFERENCES

- 2.1 EP-101, Classification of Emergencies
- 2.2 EP-204-01, Damage Control and Rescue Teams
- 2.3 EP-220, Personnel Monitoring and Radiological Emergency Teams
- 2.4 EP-290, Emergency Notifications
- 2.5 EP-402, Responsibilities of the Recovery Organization
- 2.6 EP-530, Assembly and Accountability and Onsite Protective Actions
- 2.7 EP-542, Computer-Based Offsite Dose Assessment – Airborne Release
- 2.8 EP-545, Protective Action Recommendations
- 2.9 20.000.22, Plant Fires
- 2.10 MLS05, Notifications/General Regulatory Reporting Requirements
- 2.11 Off-Site Dose Calculation Manual

3.0 ENTRY CONDITIONS

An emergency has been classified as a GENERAL EMERGENCY in accordance with EP-101.

4.0 GENERAL INFORMATION

- 4.1 **Definition of General Emergency:** Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed Environmental Protection Agency (EPA) Protective Action Guidelines exposure levels offsite for more than the immediate site area.

- 4.2 The purpose of the General Emergency declaration is to:
- 4.2.1 Initiate predetermined protective actions for the public.
 - 4.2.2 Provide continuous assessment of information from licensee and offsite organization measurements.
 - 4.2.3 Initiate additional measures as indicated by actual or potential releases.
 - 4.2.4 Provide consultation with offsite authorities.
 - 4.2.5 Provide updates for the public through offsite authorities.

NOTE: If assembly and accountability was ordered for a lower emergency classification, it may be omitted at the General Emergency at the discretion of the Emergency Director.

- 4.3 The Technical Support Center (TSC), Operational Support Center (OSC), Emergency Operations Facility (EOF) and Joint Public Information Center (JPIC) emergency response facilities are activated for a General Emergency. The Fermi 2 Emergency Call Out System must be activated and assembly of all personnel within the Protected Area ordered to achieve staffing of the facilities. Control Room personnel must perform these duties as soon as possible after declaration of a General Emergency.
- 4.4 Emergency notification to government agencies is detailed in EP-290. State and local governments must be notified within 15 minutes of declaration of the emergency. The Nuclear Regulatory Commission (NRC) must be notified immediately following the offsite authorities but not to exceed 1 hour. Notify Canada immediately after the NRC.
- 4.5 The Shift Manager shall continue to act as Emergency Director until relieved of this responsibility by the Plant Manager/alternate or until the emergency situation is terminated.
- 4.5.1 When the Plant Manager/alternate relieves the Shift Manager and the TSC is functional, the functions of the Emergency Director shall be shifted to the TSC, including notification, dose assessment, and protective action recommendations.
 - 4.5.2 The Shift Manager shall remain in the plant to supervise plant operations.
 - 4.5.3 Notifications to the NRC shall be made from the Control Room throughout the emergency, unless otherwise ordered by the Emergency Director.

- 4.6 When the EOF is declared functional, the Emergency Officer shall relieve the Emergency Director of the following responsibilities:

NOTE: Notifications to the NRC shall be made from the Control Room throughout the emergency, unless otherwise ordered by the Emergency Director.

- 4.6.1 Notification of and communications with government agencies.
 - 4.6.2 Offsite radiological surveys and environmental sampling.
 - 4.6.3 Dose assessment/projection, and meteorology.
 - 4.6.4 Protective Action recommendations
- 4.7 When a Site Area or General Emergency is declared and the EOF is functional, the Emergency Officer shall assume overall responsibility for the emergency response. The Emergency Director will report directly to the Emergency Officer. The Emergency Officer shall be directly responsible for technical review of information and updates to the Joint Public Information Center (JPIC) for dissemination to the press and the public, and shall approve all protective actions recommended to the offsite authorities.

5.0 IMMEDIATE ACTIONS

- 5.1 Complete General Emergency - Checklist for Immediate Actions (Attachment 1).
- 5.1.1 Attachment 1 must be signed by the Emergency Director or the Emergency Officer.

6.0 PROCEDURE - None

7.0 FOLLOW-UP ACTIONS

- 7.1 Complete General Emergency - Checklist for Follow-Up Actions (Attachment 2).
- 7.1.1 Attachment 2 must be signed by the Emergency Director or the Emergency Officer.
- 7.2 Continue to monitor the progress of Emergency Teams in controlling the emergency.
- 7.3 Ensure that additional personnel support and equipment are made available as necessary.

- 7.4 Periodically make follow-up status reports to on-shift personnel. Ensure all operations personnel and emergency response personnel are kept informed of:
 - 7.4.1 Personnel hazards
 - 7.4.2 Plant lineups
 - 7.4.3 Corrective actions
 - 7.4.4 Steps taken to control or mitigate the emergency
 - 7.4.5 Status of any offsite protective actions ordered by the state
- 7.5 Periodically make follow-up reports to State of Michigan, Monroe County, Wayne County, Nuclear Information, and NRC using EP-290.
- 7.6 Establish a long-term relief rotation to ensure personnel are not required to remain at their assigned positions for an excessive period of time (normally not greater than 12 hours).
- 7.7 The Emergency Director may de-escalate to an appropriate, lower emergency classification if:
 - 7.7.1 The emergency condition(s) no longer meets the requirements for a General Emergency; **and**
 - 7.7.2 The actual and potential offsite radiological hazard does not exceed the Offsite Dose Calculation Manual (ODCM) gaseous effluent limits for dose and dose rate or has been eliminated; **and**
 - 7.7.3 The Emergency Director (Emergency Officer if the EOF is activated) has conferred with the State of Michigan officials and the NRC and all three parties agree on de-escalating **and**
 - 7.7.4 The Emergency Officer concurs (if the EOF is activated).
- 7.8 If the emergency situation is de-escalated, enter EP-104, Site Area Emergency, or EP-103, Alert, or EP-102, Unusual Event, as applicable.

7.9 The emergency situation may be terminated if:

- 7.9.1 Release of radioactive materials has ceased and or is within ODCM limits, **and**
- 7.9.2 No further potential exists for uncontrolled releases of radioactive materials to the environment, **and**
- 7.9.3 The reactor and associated systems are in a stable, safe condition, **and**
- 7.9.4 Termination of the emergency will not adversely impact offsite protective actions that are in progress.

7.10 If the emergency classification is terminated or de-escalated:

- 7.10.1 A summary of the termination or de-escalation shall be provided to the State of Michigan in accordance with EP-290.
- 7.10.2 A summary of the termination or de-escalation shall be provided to the NRC
- 7.10.3 Carry out the actions described in EP-402, Responsibilities of the Recovery Organization, as applicable.

7.11 Completed forms shall be forwarded to the Supervisor, RERP for disposition.

8.0 RECORDS

8.1 The following are required records and shall be retained or dispositioned in accordance with established requirements:

- 8.1.1 All completed General Emergency - Checklist for Immediate Actions (Attachment 1)
- 8.1.2 All completed General Emergency - Checklist for Follow-Up Actions (Attachment 2)

END OF TEXT

GENERAL EMERGENCY - CHECKLIST FOR IMMEDIATE ACTIONS

- | | Complete | NA | |
|-----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | | On-shift personnel notified. |
| 2. | <input type="checkbox"/> | | Fermi 2 Emergency Call Out System activated in accordance with EP-290. |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | Assembly and accountability ordered within the Protected Area in accordance with EP-530. |
| 4. | <input type="checkbox"/> | | TSC, OSC, EOF, and JPIC activated. |
| 5. | <input type="checkbox"/> | | Offsite Protective Action Recommendation formulated in accordance with EP-545. |
| 6. | <input type="checkbox"/> | | Emergency Director/Emergency Officer have conferred with State Emergency Director regarding Protective Action Recommendations. |
| 7. | <input type="checkbox"/> | | Immediate notifications to offsite authorities in accordance with EP-290. |
| 8. | <input type="checkbox"/> | | NRC Operations Center notified immediately following offsite authorities, not to exceed 1 hour, in accordance with EP-290. |
| 9. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological Emergency and Personnel Monitoring Teams activated (EP-220). |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Fire Brigade activated (20.000.22). |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Damage Control and Rescue Teams activated (EP-204-01). |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite emergency support requested (EP-290). |
| 13. | <input type="checkbox"/> | | Province of Ontario notified in accordance with EP-290. |
| 14. | <input type="checkbox"/> | | Nuclear Information notified in accordance with EP-290. |
| 15. | <input type="checkbox"/> | <input type="checkbox"/> | Radiological sampling ordered (EP-220/ODCM). |
| 16. | <input type="checkbox"/> | <input type="checkbox"/> | Offsite dose assessment initiated (EP-542/ODCM). |
| 17. | <input type="checkbox"/> | <input type="checkbox"/> | Onsite protective actions ordered (EP-530). |
| 18. | <input type="checkbox"/> | | "General Emergency" entered into Emergency Response Information System (ERIS). |
| 19. | <input type="checkbox"/> | | Emergency Response Data System (ERDS) activated. |

Emergency Director/Emergency Officer signature _____

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GENERAL EMERGENCY - CHECKLIST FOR FOLLOW-UP ACTIONS

- | | Complete | NA | |
|-----|--------------------------|--------------------------|--|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Additional Control Room personnel placed on standby. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Follow-up actions of Abnormal and Emergency Operating Procedures completed. |
| 3. | <input type="checkbox"/> | | TSC, OSC, EOF, and JPIC functional. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | Assess plant conditions and reclassify if necessary in accordance with EP-101. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Follow-up reports completed in accordance with EP-290. |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | On-shift personnel informed of changing conditions. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | All reporting requirements met in accordance with MLS05. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | Long term organization established. |
| 9. | <input type="checkbox"/> | | INPO and Nuclear Insurers notified (EP-290). |
| 10. | <input type="checkbox"/> | | Emergency terminated or deescalated. |
| 11. | <input type="checkbox"/> | | Emergency termination or deescalation notification and summary to offsite authorities in accordance with EP-290. |
| 12. | <input type="checkbox"/> | | Emergency termination notification and summary to NRC Operations Center in accordance with EP-290. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Recovery initiated (EP-402). |
| 14. | <input type="checkbox"/> | | Update ERIS emergency classification entry. |

Comments: _____

Emergency Director/Emergency Officer signature _____

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