# ENTERGY NUCLEAR NORTHEAST
# JAMES A. FITZPATRICK NUCLEAR POWER PLANT
# P.O. BOX 110
# LYCOMING, NY 13093
# DOCUMENT TRANSMITTAL AND RECEIPT ACKNOWLEDGEMENT FORM

**DATE: AUGUST 28, 2002**
CONTROLLED COPY NUMBER: 34

TO: **U.S.N.R.C. Document Center/Washington, DC**

FROM: CATHY IZYK - EMERGENCY PLANNING DEPARTMENT

SUBJECT: EMERGENCY PLAN AND IMPLEMENTING PROCEDURES

Enclosed are revisions to your assigned copy of the JAFNPP Emergency Plan and Implementing Procedures. Please remove and **DISCARD** the old pages. Insert the attached, initial and date this routing sheet and return the completed routing sheet to ***Cathy Izyk in the Emergency Planning Department within 15 days.*** If this transmittal is not returned within 15 days, your name will be removed from the controlled list.

| VOLUME 2 Update List Dated August 29, 2002 | | | |
|---|---|---|---|
| DOCUMENT | PAGES | REV. # | INITIALS/DATE |
| IAP-1 | REPLACE ALL | 28 | |
| EAP-8 | REPLACE ALL | 58 | |
| EAP-5.3 | REPLACE ALL – place sticker provided on pull out map on page 31. | 9 | |
| EAP-17 | REPLACE ALL | 102 | |

| VOLUME 3 Update List Dated August 29, 2002 | | | |
|---|---|---|---|
| DOCUMENT | PAGES | REV. # | INITIALS/DATE |
| EAP-43 | REPLACE ALL | 57 | |
| SAP-7 | REPLACE ALL | 36 | |

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# EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 2
## UPDATE LIST

CONTROLLED COPY # 34

Date of Issue: August 29, 2002

| Procedure Number | Procedure Title | Revision Number | Date of Last Review | Use of Procedure |
|---|---|---|---|---|
| N/A | TABLE OF CONTENTS | REV. 19 | 02/98 | N/A |
| IAP-1 | EMERGENCY PLAN IMPLEMENTATION CHECKLIST | REV. 28 | 08/02 | Continuous |
| IAP-2 | CLASSIFICATION OF EMERGENCY CONDITIONS | REV. 23 | 08/02 | Continuous |
| EAP-1.1 | OFFSITE NOTIFICATIONS | REV. 46 | 08/02 | Informational |
| EAP-2 | PERSONNEL INJURY | REV. 25 | 08/02 | Informational |
| EAP-3 | FIRE | REV. 23 | 08/02 | Informational |
| EAP-4 | DOSE ASSESSMENT CALCULATIONS | REV. 31 | 08/02 | Reference |
| EAP-4.1 | RELEASE RATE DETERMINATION | REV. 14 | 06/02 | Reference |
| EAP-5.1 | DELETED (02/94) | | | |
| EAP-5.2 | DELETED (04/91) | | | |
| EAP-5.3 | ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING | REV. 9 | 08/02 | Informational |
| EAP-6 | IN-PLANT EMERGENCY SURVEY/ENTRY | REV. 16 | 06/02 | Informational |
| EAP-7.1 | DELETED (02/94) | | | |
| EAP-7.2 | DELETED (02/94) | | | |
| EAP-8 | PERSONNEL ACCOUNTABILITY | REV. 58 | 08/02 | Reference |
| EAP-9 | SEARCH AND RESCUE OPERATIONS | REV. 10 | 08/02 | Informational |
| EAP-10 | PROTECTED AREA EVACUATION | REV. 16 | 08/02 | Informational |
| EAP-11 | SITE EVACUATION | REV. 18 | 08/02 | Informational |
| EAP-12 | DOSE ESTIMATED FROM AN ACCIDENTAL RELEASE OF RADIOACTIVE MATERIAL TO LAKE ONTARIO | REV. 11 | 04/02 | Reference |
| EAP-13 | DAMAGE CONTROL | REV. 14 | 06/02 | Informational |
| EAP-14.1 | TECHNICAL SUPPORT CENTER ACTIVATION | REV. 22 | 04/02 | Informational |
| EAP-14.2 | EMERGENCY OPERATIONS FACILITY ACTIVATION | REV. 20 | 04/02 | Informational |
| EAP-14.5 | OPERATIONAL SUPPORT CENTER ACTIVATION AND OPERATION | REV. 14 | 03/00 | Informational |

# EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 2
# UPDATE LIST

Date of Issue: August 29, 2002

| Procedure Number | Procedure Title | Revision Number | Date of Last Review | Use of Procedure |
|---|---|---|---|---|
| EAP-14.6 | HABITABILITY OF THE EMERGENCY FACILITIES | REV. 14 | 10/98 | Informational |
| EAP-15 | EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL | REV. 11 | 06/02 | Informational |
| EAP-16 | PUBLIC INFORMATION PROCEDURE | REV. 6 | 02/98 | Informational |
| EAP-16.2 | JOINT NEWS CENTER OPERATION | REV. 0 | 02/02 | Informational |
| EAP-17 | EMERGENCY ORGANIZATION STAFFING | REV. 102 | 08/02 | Informational |
| EAP-18 | DELETED (12/93) | | | |
| EAP-19 | EMERGENCY USE OF POTASSIUM IODINE (KI) | REV. 21 | 04/01 | Informational |
| EAP-20 | POST ACCIDENT SAMPLE, OFFSITE SHIPMENT AND ANALYSIS | REV. 9 | 06/02 | Reference |
| EAP-21 | DELETED (12/85) | | | |
| EAP-22 | DELETED (02/98) | | | |
| EAP-23 | EMERGENCY ACCESS CONTROL | REV. 11 | 06/02 | Informational |
| EAP-24 | EOF VEHICLE AND PERSONNEL DECONTAMINATION | REV. 9 | 06/02 | Informational |
| EAP-25 | DELETED (02/94) | | | |

ENERGY NUCLEAR OPERATIONS, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# EMERGENCY PLAN IMPLEMENTATION CHECKLIST

**IAP-1**
**REVISION 28**

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/27/02
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

| | |
|---|---|
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PERIODIC REVIEW DUE DATE: AUGUST 2007

REVISION SUMMARY SHEET

REV. NO.

27
- On attachment 1 and 2 section "C", corrected reference to EAP-17 attachment 4 not 5.
- Added This is:(1) an actual emergency, OR (2) a drill, OR (3) a pager/on-call test" to attachments 1 and 2 section "C".
- On attachment 1 and 2 section "C", added clarification wording that CAN will call 315-349-6261 (located near RECS line) for verification of CAN activation from the Control Room.

26
- On Attachment 1 added additional information in section J.
- On Attachment 1 section J & L and Attachment 2 section P & R added the words "30 Minute Limit To Complete"

25
- On attachment 1 and 2 A, deleted wording on activating pagers.

TABLE OF CONTENTS

1.0 **PURPOSE**

The purpose of this procedure is to provide a checklist for implementing actions and direction in the use of additional procedures for implementing the emergency plan.

2.0 **REFERENCES**

2.1 **Performance References**

None

2.2 **Developmental References**

2.2.1 JAFNPP Emergency Plan, Volumes 2 & 3, Implementing Procedures.

3.0 **INITIATING EVENTS**

3.1 Either an Unusual Event, Alert, Site Area Emergency or General Emergency has been declared in accordance with IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS.

4.0 **PROCEDURE**

**NOTE:** As a quick reference tool for the implementor of this procedure, a new checklist should be completed at initial declaration and each reclassification as appropriate. Additionally, a review of the checklist should be conducted for significant event related occurrences.

4.1 From the Control Room, when an emergency is classified or reclassified in accordance with IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS, the immediate actions for the Emergency Director are (see Attachment 1):

**FACILITY ACTIVATION REQUIREMENTS**

| Facility | Unusual Event (0700-1530) | Unusual Event (After 1530, Weekends, Holidays) | Alert | Site Area Emergency | General Emergency |
|---|---|---|---|---|---|
| TSC | ED Decides | X (1) | X | X | X |
| OSC | ED Decides | X (1) | X | X | X |
| EOF | ED Decides | ED Decides | X | X | X |
| JNC | ED Decides | ED Decides | X | X | X |

(1) TSC and OSC must be activated at the Unusual Event classification during off-hours UNLESS the ED is confident that the emergency will not escalate.

(Facility activation may be modified by the Emergency Director if the safety of incoming personnel may be jeopardized by a security event or other event hazardous to incoming personnel.)

4.2 From the TSC or EOF, when an emergency is classified or reclassified in accordance with **IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS**, then the immediate actions for the Emergency Director are (see Attachment 2):

**NOTE:** As a quick reference tool for the implementor of this procedure, a new checklist should be completed at initial declaration and each reclassification as appropriate. Additionally, a review of the checklist should be conducted for significant event related occurrences.

4.3 If plant conditions deteriorate, implement **IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS**, to reclassify the emergency.

5.0 **ATTACHMENTS**

1. CONTROL ROOM EMERGENCY PLAN IMPLEMENTATION CHECKLIST

2. TSC/EOF EMERGENCY PLAN IMPLEMENTATION CHECKLIST

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐<br><br>UE*<br>ALERT*<br>SAE*<br>GE* | _____<br>Initials<br><br>_____<br>Time | A. Implement **EAP-1.1, OFFSITE NOTIFICATIONS**, in order to notify offsite agencies. |
| ☐<br><br>GE* | _____<br>Initials<br><br>_____<br>Time | B. If a General Emergency has been declared in accordance with **IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS**, then recommend protective actions in accordance with procedure **EAP-4, DOSE ASSESSMENT CALCULATIONS, Attachment 1, Initial Protective Actions.** |
| ☐<br><br>UE*<br>ALERT*<br>SAE*<br>GE* | _____<br>Initials<br><br>_____<br>Time | C. Per EAP-1.1, notify Security (ext. 3456) to activate **pagers**, and if necessary **CAN.**<br>**Pagers should be activated at the NUE, and once again at the ALERT or higher classification if escalation from the NUE occurs.**<br>Provide the following information:<br>1. This is: (1) an actual emergency, **OR** (2) a drill, **OR** (3) a pager/on-call test<br>2. Emergency Classification<br>3. Facilities activated:<br>a. "Group 1" for (CR/TSC/OSC /JAF) **or**<br>b. "Group 2" for (CR/TSC/OSC/JAF/EOF/JNC) **or**<br>c. Selected: CR / TSC / OSC / JAF / EOF / JNC<br>4. Activate Pagers YES NO<br>5. Activate CAN YES NO<br>6. 3 digit Pager Code ____ ____ ____<br><br>**IF** Security is unable to activate pagers and/or CAN, **THEN** the Shift Manager should utilize EAP-17, Attachment 4 to make the activation. CAN will call 315-349-6261 (located near RECS line) for verification of CAN activation. This is the only CR number authorized for CAN activation from the CR. |

PAGER CODES

| | | |
|---|---|---|
| 1=Actual Event<br><br>2=Drill or Exercise<br><br>9=Pager/on-call test only | 1=NUE<br>2=Alert<br>3=SAE<br>4=GE<br>9=None | 1 = Report to CR/OSC/TSC<br>2 = Report to CR/OSC/TSC/EOF/JNC<br>3 = On duty only report to CR/OSC/TSC/EOF/JNC<br>7 = Personnel assigned a pager call CAN 800-205-5175 (respond as directed)<br>8 = All personnel report to EOF for further instructions<br>9 = No response required |

* IMPLEMENTATION IS **REQUIRED** AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐<br>ALERT*<br>SAE*<br>GE* | Initials<br>Time | D. Activate emergency response facilities in accordance with the **Facility Activation Requirements** matrix in Section 4.1 |
| ☐ | Initials<br>Time | E. If a Gaseous Radioactivity Release is suspected, imminent, underway or has occurred, then implement **EAP-4, DOSE ASSESSMENT CALCULATIONS**, Attachment 1, **INITIAL PROTECTIVE ACTIONS**, in order to determine recommendations to be given to the County and State. |
| ☐ | Initials<br>Time | F. If a Liquid Radioactivity Release is imminent, underway or has occurred, then implement **EAP-12, DOSE ESTIMATED FROM AN ACCIDENTAL RELEASE OF RADIOACTIVE MATERIAL TO LAKE ONTARIO**, in order to determine dose projections and protective action recommendations to be given to the County and State. |
| ☐ | Initials<br>TIME | G. If a fire has occurred then implement **EAP-3, FIRE**, and conduct fire fighting efforts. |
| ☐ | Initials<br>Time | H. If a personnel injury has occurred, then consider implementation of **EAP-2, PERSONNEL INJURY**, based on the initiating events. |
| ☐ | Initials<br>Time | I. If a protected area and/or site evacuation have been initiated and it is necessary to enter areas where abnormal radiological conditions exist, then consider implementation of **EAP-6, IN-PLANT EMERGENCY SURVEY/ENTRY**, based on initiating events. |

* IMPLEMENTATION IS REQUIRED AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| **30 Minute Limit To Complete** ☐ SAE* GE* | _____ Initials _____ Time | J. If a Site Area Emergency or General Emergency has been declared, or, if any of the following: unanticipated confirmed multiple area radiation monitor alarms, ventilation monitor alarms, fire, EAP-6 survey showing high radiation, high airborne activity indicated by process computer alarms, then implement EAP-10, **PROTECTED AREA EVACUATION.** |
| ☐ SAE+ GE* | _____ Initials _____ Time | K. If a General Emergency has been declared, or at the discretion of the Emergency Director, implement **EAP-11, SITE EVACUATION**, based on the initiating events. If a Site Area Emergency has been declared, then consider implementation of **EAP-11, SITE EVACUATION**, based on the initiating events. |
| **30 Minute Limit To Complete** ☐ SAE* GE* | _____ Initials _____ Time | L. If a Site Area Emergency or General Emergency has been declared, a Protected Area Evacuation or Site Evacuation has been completed, or at the Emergency Director's request, implement **EAP-8, PERSONNEL ACCOUNTABILITY.** |
| ☐ | _____ Initials _____ Time | M. If onsite personnel are unaccounted for, or an individual may be missing, trapped or disabled, then implement **EAP-9, SEARCH AND RESCUE OPERATIONS**, based on initiating events. |
| ☐ | _____ Initials _____ Time | N. If the TSC and OSC have been activated, and plant equipment has been damaged, then consider implementation of **EAP-13, DAMAGE CONTROL**, based on initiating events. |
| ☐ | _____ Initials _____ Time | O. If authorization to receive emergency exposures is needed, then implement **EAP-15, EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL**, based on initiating events. |

+ IMPLEMENTATION SHALL BE **CONSIDERED** AT THIS EMERGENCY CLASSIFICATION.

* IMPLEMENTATION IS **REQUIRED** AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐ | Initials<br>Time | P. If abnormal radiological conditions are indicated in the plant or environs, then implement **EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI).** |
| ☐ | Initials<br>Time | Q. If unusual weather conditions exist or are imminent, consider implementation of **SAP-19, SEVERE WEATHER**, based on initiating events. |
| ☐ | | R. If plant conditions deteriorate, implement **IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS**, to reclassify the emergency. |

Signature _____

Date _____ Time _____

# TSC/EOF EMERGENCY PLAN IMPLEMENTATION CHECKLIST



| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐<br>UE*<br>ALERT*<br>SAE*<br>GE* | _____ Initials<br><br>_____ Time | A. Implement **EAP-1.1, OFFSITE NOTIFICATIONS**, in order to notify offsite agencies. |
| ☐<br>GE* | _____ Initials<br><br>_____ Time | B. If a General Emergency has been declared, or if a gaseous radioactivity release is suspected, imminent, underway, or has occurred, then implement procedure **EAP-4, DOSE ASSESSMENT CALCULATIONS, Attachment 2, AUGMENTED DOSE ASSESSMENT PROTECTIVE ACTIONS**, in order to determine recommendations to be given to the County and State. |
| ☐<br>UE*<br>ALERT*<br>SAE*<br>GE* | | **C. IF** not already accomplished from the CR, **THEN** Per **EAP-1.1**, notify Security (ext. 3456) to activate **pagers**, and if necessary **CAN**.<br>**Pagers should be activated at the NUE, and once again at the ALERT or higher classification if escalation from the NUE occurs.**<br>Provide the following information:<br>1. This is:(1) an actual emergency, **OR** (2) a drill, **OR** (3) a pager/on-call test<br>2. Emergency Classification<br>3. Facilities activated<br>a. "Group 1" for (CR/TSC/OSC /JAF) **or**<br>b. "Group 2" for (CR/TSC/OSC/JAF/EOF/JNC) **or**<br>c. Selected: CR / TSC / OSC / JAF / EOF / JNC<br>4. Activate Pagers YES NO<br>5. Activate CAN YES NO<br>6. 3 digit Pager Code ____ ____ ____<br>**IF** Security is unable to activate pagers and/or CAN, **THEN** activation must occur utilizing EAP-17, Attachment 4. CAN will call 315-349-6261 (located near RECS line) for verification of CAN activation. This is the only CR number authorized for CAN activation from the CR. |

| PAGER CODES | | |
|---|---|---|
| 1=Actual Event<br><br>2=Drill or Exercise<br><br>9=Pager/on-call test only | 1=NUE<br>2=Alert<br>3=SAE<br>4=GE<br>9=None | 1 = Report to CR/OSC/TSC<br>2 = Report to CR/OSC/TSC/EOF/JNC<br>3 = On duty only report to CR/OSC/TSC/EOF/JNC<br>7 = Personnel assigned a pager call CAN 800-205-5175 (respond as directed)<br>8 = All personnel report to EOF for further instructions<br>9 = No response required |

* IMPLEMENTATION IS **REQUIRED** AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐ ALERT* SAE* GE* | Initials<br>Time | D. Activate emergency response facilities in accordance with the **Facility Activation Requirements** matrix in Section 4.1 |
| ☐ ALERT* SAE* GE* | Initials<br>Time | E. If the TSC is activated, then implement **EAP-14.1, TECHNICAL SUPPORT CENTER ACTIVATION.** |
| ☐ ALERT* SAE* GE* | Initials<br>Time | F. If the OSC is activated, then implement **EAP-14.5, OPERATIONAL SUPPORT CENTER ACTIVATION.** |
| ☐ ALERT* SAE* GE* | Initials<br>Time | G. If the EOF is activated, then implement **EAP-14.2, EMERGENCY OPERATIONS FACILITY ACTIVATION.** |
| ☐ | Initials<br>Time | H. If abnormal radiological conditions exist or are suspected, then consider implementation of **EAP-14.6, HABITABILITY OF THE EMERGENCY FACILITIES,** based on the initiating events. |
| ☐ | Initials<br>Time | I. If a liquid radioactivity release is imminent, underway or has occurred then implement **EAP-12, DOSE ESTIMATED FROM AN ACCIDENTAL RELEASE OF RADIOACTIVE MATERIAL TO LAKE ONTARIO,** in order to determine dose projections and protective action recommendations to be given to the County and State. |

* IMPLEMENTATION IS REQUIRED AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| ☐ | _____ Initials<br>_____ Time | J. If a fire has occurred then implement **EAP-3, FIRE**, and conduct fire fighting efforts. |
| ☐ | _____ Initials<br>_____ Time | K. If a personnel injury has occurred, then consider implementation of **EAP-2, PERSONNEL INJURY**, based on the initiating events. |
| ☐ | _____ Initials<br>_____ Time | L. If downwind surveys/environmental monitoring are needed, then consider implementation of **EAP-5.3, ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING**, based on initiating events. |
| ☐ ALERT* SAE* GE* | _____ Initials<br>_____ Time | M. If an Alert or higher is declared, then implement **EAP-23, EMERGENCY ACCESS CONTROL**, based on initiating events. |
| ☐ ALERT* SAE* GE* | _____ Initials<br>_____ Time | N. If an Alert or higher has been declared and the TSC has been activated, then implement **EAP-28, EMERGENCY RESPONSE DATA SYSTEM (ERDS) ACTIVATION.** |
| ☐ | _____ Initials<br>_____ Time | O. If a protected area and/or site evacuation have been initiated and it is necessary to enter areas where abnormal radiological conditions exist, then consider implementation of **EAP-6, IN-PLANT EMERGENCY SURVEY/ENTRY**, based on initiating events. |

* IMPLEMENTATION IS **REQUIRED** AT THIS EMERGENCY CLASSIFICATION.

| Implemented | Initials/Time | Actions/Procedures |
|---|---|---|
| **30 Minute Limit To Complete** ☐ SAE* GE* | Initials Time | P. If a Site Area Emergency or General Emergency has been declared, or, if plant conditions reflect the initiating events, then implement **EAP-10, PROTECTED AREA EVACUATION.** |
| ☐ SAE+ GE* | Initials Time | Q. If a General Emergency has been declared, or at the discretion of the Emergency Director, implement **EAP-11, SITE EVACUATION,** based on initiating events. If a Site Area Emergency has been declared, then consider implementation of EAP-11, **SITE EVACUATION,** based on the initiating events. |
| 30 Minute Limit To Complete ☐ SAE* GE* | Initials Time | R. If a Site Area Emergency or General Emergency has been declared, a Protected Area Evacuation or Site Evacuation has been completed, or at the Emergency Director's request, implement **EAP-8, PERSONNEL ACCOUNTABILITY.** |
| ☐ | Initials Time | S. If onsite personnel are unaccounted for, or an individual may be missing, trapped or disabled, then implement **EAP-9, SEARCH AND RESCUE OPERATIONS,** based on initiating events. |
| ☐ | Initials Time | T. If the TSC and OSC have been activated, and plant equipment has been damaged, then consider implementation of **EAP-13, DAMAGE CONTROL,** based on initiating events. |
| ☐ | Initials Time | U. If authorization to receive emergency exposures is needed, then implement **EAP-15, EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL,** based on initiating events. |

+ IMPLEMENTATION SHALL BE **CONSIDERED** AT THIS EMERGENCY CLASSIFICATION.

* IMPLEMENTATION IS **REQUIRED** AT THIS EMERGENCY CLASSIFICATION.

| | | |
|---|---|---|
| ☐ | Initials<br>Time | V. If abnormal radiological conditions are indicated in the plant or environs, then implement **EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI).** |
| ☐ | Initials<br>Time | W. If unusual weather conditions exist or are imminent, consider implementation of **SAP-19, SEVERE WEATHER**, based on initiating events. |
| ☐ | Initials<br>Time | X. If all emergency facilities have been activated and it is necessary to provide long term staffing, then implement **EAP-43, EMERGENCY FACILITIES LONG TERM STAFFING.** |

Signature _____

Date _____ Time _____

ENTERGY NUCLEAR OPERATION, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# ONSITE/OFFSITE DOWNWIND SURVEYS AND ENVIRONMENTAL MONITORING
# EAP-5.3
# REVISION 9

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/22/02
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

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PERIODIC REVIEW DUE DATE: June 2007

REVISION SUMMARY SHEET

REV. NO.

9
- Added reminder to discuss use of KI to attachment 1.
- Added step 2.2.10 - reference to acceptable dose rates.
- Added words to refer to 4.11 to these sections: to sections 4.6.9, 4.9.1.F, 4.9.2.F, 4.9.3.K, 4.9.4.G, 4.9.5.G, 4.9.6.F, and 4.10.7
- Added step 4.11 Environmental Lab Radiological Sample Guidelines, to address samples brought to the Env. Lab.

8
- 4.4.3 replaced generator with inverter.
- Updated color maps on attachments 5 and 6
- Updated coversheet - company name change.
- Changed Emergency vehicle description from Suburban to Explorer in section 4.4.1
- Changed generators to inverters in section 4.4.3
- Changed NMPC AND NYPA to Nine Mile Point and Entergy in section 4.6.1.B
- In section 4.7.8 deleted the word plastic in reference to gloves.
- In section 4.9.1 - added the words "the surface of the water".
- In section 4.9.2 - added the words "the surface of the container".
- On Attachment 2 added a column for distance from site in miles.
- On Attachment 3 deleted the work Radiation from the radiation Survey Before Sampling check off.

7
- On attachment 2, added "(obtain 25ft$^3$) to column Sample Volume (ft$^3$)
- Changed RTP-74 TO RP-INST-02.09, editorial change.

6
- Reformat per AP-02.01, Rev. 5.
- Section 4.2.2: note added to include radio dispatcher/operator in team briefing.
- Attachment 2 revised to clarify information.
- Sample point L-5: correct road designation.
- Revise Attachment 4 Onsite Survey Map to include site changes.

TABLE OF CONTENTS

1.0 **PURPOSE**

This procedure provides instructions for performing onsite/offsite downwind surveys and for collecting various environmental media including air, water, soil, snow, vegetation, grass and TLDs.

2.0 **REFERENCES**

2.1 **Performance References**

2.1.1 EAP-15, EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL

2.1.2 EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI)

2.1.3 EAP-24, EOF VEHICLE AND PERSONNEL DECONTAMINATION

2.1.4 EAP-27, ESTIMATION OF POPULATION DOSE WITHIN THE 10 MILE EPZ

2.1.5 SAP-2, EMERGENCY EQUIPMENT INVENTORY

2.1.6 RP-INST-02.09, MS-2 MINI SCALER OPERATION AND CALIBRATION

2.1.7 SP-04.01, RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

2.2 **Developmental References**

2.2.1 EAP-4, DOSE ASSESSMENT CALCULATIONS

2.2.2 EAP-15, EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL

2.2.3 EAP-17, EMERGENCY ORGANIZATION STAFFING

2.2.4 EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI)

2.2.5 EAP-24, EOF VEHICLE AND PERSONNEL DECONTAMINATION

2.2.6 EAP-27, ESTIMATION OF POPULATION DOSE WITHIN THE 10 MILE EPZ

2.2.7 SAP-2, EMERGENCY EQUIPMENT INVENTORY

2.2.8 RP-INST-02.09, MS-2 MINI SCALER OPERATION AND CALIBRATION

2.2.9 SP-04.01, RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

2.2.10 Entergy memo JENV-02-057, Establish acceptable dose rate

## 3.0 INITIATING EVENTS

3.1 A radioactive release to the environment is suspected or is underway which has resulted in a declared emergency, **or**

3.2 A request for downwind surveys/environmental monitoring has been issued by the Shift Manager, Emergency Director, Radiological Support Coordinator or designee, **and**

3.3 Survey team members have been notified and assembled at the TSC, OSC, or EOF in accordance with EAP-17, EMERGENCY ORGANIZATION STAFFING, or at the Control Room, in accordance with EAP-4, DOSE ASSESSMENT CALCULATIONS

## 4.0 PROCEDURE

**NOTE:** The on-shift Radiation Protection Technician dispatched to the site boundary for initial protective action recommendations from the Control Room shall perform only the applicable sections of this procedure required to safely and expeditiously provide survey data to the Control Room.

### 4.1 Shift Manager/Emergency Director/Radiological Support Coordinator Responsibilities

The SM, ED, RSC or designee shall:

4.1.1 Direct the assembly of survey team(s).

4.1.2 Designate a radio dispatcher.

4.1.3 Assign a team leader and team number to each survey team.

4.1.4 Assign cellular phone numbers and backup radio communications frequencies to each team, as applicable.

4.1.5 Brief and update each team providing them with the following information (refer to Attachment 1, Survey Team Briefing Form). Provide a copy of the completed form to the team and retain the original for reference.

A. Dosimeter readings

B. Maximum allowable dose (see EAP-15, EMERGENCY RADIATION EXPOSURE CRITERIA AND CONTROL)

C. Nature of airborne release, if applicable

D. Survey points/locations

E. Wind direction

F. Types of samples/surveys to collect

G. Projected dose rates

H. Protective measures to be used

I. Use of KI [see EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI)]

J. Communications specifics (type, radio channel, etc.)

K. Special and/or hazardous conditions

L. Meteorological data/forecast

M. Plant conditions/emergency classification

4.1.6 For TLD collection, ensure requirements for EAP-27, ESTIMATION OF POPULATION DOSE WITHIN THE 10 MILE EPZ, have been fulfilled and provide replacement emergency TLDs if required.

4.1.7 Direct that each team obtain and prepare emergency kits for dispatch.

4.1.8 Maintain radio or telephone contact with survey teams and record survey data on the Downwind Survey Log Sheet (Attachment 2) and/or Survey Team Communication Form (Attachment 14).

4.1.9 Transmit to the survey teams any changes in location assignments, sample types required, changes in wind direction, etc.

4.1.10 Based on personnel and equipment monitoring results:

A. Direct teams to proceed to decontamination, or,

B. Direct teams to deliver air samples, TLDs and data to the Environmental Lab for analysis, if applicable.

**4.2 Survey Team Preparations**

4.2.1 Assemble at the CR, TSC, OSC or EOF, as directed by the SM, ED, RSC, or designee.

4.2.2 Receive a briefing from the SM, ED, RSC or designee. Record briefing information on Attachment 1, Survey Team Briefing Form. Ensure that all information on the form is covered.

**NOTE:** The Radio Dispatcher/Operator should be included in the team briefing.

**4.3 Survey Team Equipment**

4.3.1 Obtain emergency kit(s) at the locations indicated in SAP-2, Attachment 1, Emergency Equipment Location. Kits are located in the OSC area and in the EOF.

4.3.2 Gather necessary protective gear (dosimeters, respirators, etc.) as instructed during briefing.

4.3.3 Perform source checks, operability checks and battery checks on equipment, in accordance with applicable instrument/ equipment procedure. Check calibration dates on equipment. Use survey instruments in accordance with applicable instrument procedures.

4.3.4 Zero personal pocket dosimeters. Record "Initial Dosimeter Reading" where appropriate on the Survey Team Briefing Form, Attachment 1.

4.3.5 Install a particulate filter and a Silver Zeolite iodine collection cartridge on the air sampler.

4.3.6 Don protective clothing and respirator if so instructed during briefing.

4.3.7 Load equipment into vehicle. Place survey meter in vehicle and ensure that it is turned on.

4.4 **Survey Team Transportation**

4.4.1 Transport all equipment designated to survey vehicle and prepare it for the mission. There are three (3) vehicles designated for use by team members during an emergency. They consist of two (2) vans (EP #1 and EP #2) and a 4-wheel drive Explorer(RES3). These vehicles are equipped with an AC power source, radios, and cellular phones. (Private vehicles may be used if necessary with a portable radio.)

4.4.2 Check spare tire and gas level before driving out making sure the vehicle has enough gas for the trip.

4.4.3 Complete the preoperational check of the inverter and air sampler by starting the inverter, plugging the air sampler into the 120 volt receptacle in the vehicle and switching it on. Observe satisfactory operation as indicated by flow on the indicator. Turn the unit off after checking and leave the filter and cartridge installed.

4.4.4 Conduct a phone and radio check with the dispatcher to establish communications. Request any final instructions.

4.4.5 Use the maps provided in this procedure and in the emergency kit and proceed to survey/sample locations.

**NOTE:** Drive slowly on dirt roads to avoid stirring up excessive dirt and dust.

4.5 **Survey Team Communications**

4.5.1 Maintain continuous phone and/or periodic radio contact with the dispatch center, reporting such information as team location and progress, current dosimeter readings, survey meter readings en route, arrival and departure times from each sample location.

4.5.2 Use the Survey Team Communication Form, Attachment 14, to record any messages, new instructions, etc. from the dispatcher.

4.5.3 If the cellular phone and radio become inoperative, use public telephones to communicate with the dispatch center. (The Primary telephone numbers are: 349-6707 for the TSC and 593-5991 for the EOF dispatchers.)

4.6 **Downwind Survey and Air Sampling Instructions**

4.6.1 Use the maps and location descriptions provided in this procedure and in the emergency kit to locate survey/sample locations. Descriptions of the sample locations are presented in the List of Environmental Monitoring Stations, Attachment 11, the List of Environmental TLDs, Attachment 12, and the List of Emergency TLDs, Attachment 13.

**NOTE:** Survey teams will be sent to designated locations selected for ease of access and importance of expected dose to the population. Survey teams may be requested to proceed to any or all of three general areas, as follows:

A. Site Fence. This is the outermost fence surrounding the plant. At a minimum, radiation level readings will be taken at a specified point at the fence and in both directions along the fence from that point.

B. Site Boundary. This is defined as the joint Nine Mile Point and Entergy site property line. Surveys conducted at designated points along or within the site boundary normally are performed in the same manner as for offsite downwind surveys.

C. Offsite. This is the property beyond the site boundary. Points in this area are surveyed for airborne activity as well as for deposition.

4.6.2 Determine the maximum concentration at each survey location by scanning to the left and right. At the position of highest dose rate, commence survey and data recording.

4.6.3 Perform both beta and gamma surveys with an ionization chamber survey meter. (Record instrument serial numbers, time, survey location and beta/gamma dose rates on Downwind Survey Log Sheet, Attachment 2.)

A. Take three readings at waist level (3 feet above ground) within a circle of about 10-15 yards in diameter at the sampling location. Record and transmit back to dispatch center the highest of the three (3) readings.

B. Take three readings at 3 inches above ground at locations corresponding to the waist level readings. Record and transmit back to the dispatch center the highest of the three (3) readings.

4.6.4 Transmit results of survey to the dispatch center, as stated above. (Be sure to identify team, time, survey location as well as dose rate data.) Acknowledge accurate receipt of information repeated back by dispatcher.

4.6.5 As directed by the dispatcher, conduct an air sample in accordance with steps 4.6.6 - 4.6.11 **or** proceed to next sampling location and survey in accordance with steps 4.6.2 - 4.6.4 **or** return to station in accordance with step 4.6.13.

4.6.6 Set up the portable air sampler such that it has power, has both particulate filter and Silver Zeolite iodine collection cartridge and is between 3 and 7 feet off the ground.

4.6.7 Obtain a sample of 25 cubic feet. (Run the sampler for a time interval corresponding to the flow rate data affixed to the pump such that 25 cubic feet is obtained. A normal flow rate is about 3.3 cfm.)

4.6.8 For air samples collected in locations with a dose rate greater than 1 mR/hr, move to an area with a dose rate of less than 1 mR/hr and draw a one minute purge on the sample cartridge prior to counting. This will purge noble gases from the sample assembly. For air samples collected in locations with a dose rate of less than 1 mR/hr, count sample at that location.

4.6.9 Perform a background count, particulate filter count and Silver Zeolite iodine cartridge count separately. (Iodine sample counts greater than 8,500 net cpm should be returned as directed for HPGe analysis, refer to step 4.11 Environmental Lab Radiological Sample Guidelines.)

A. Use the mini scaler as the primary counting instrument for both the particulate and iodine cartridge. See RP-INST-02.09, MS-2 MINI SCALER OPERATION AND CALIBRATION.

1. Obtain a background count.
2. Place the particulate filter in the sample holder textured side up.
3. Record the total counts.
4. Remove the particulate filter and store in an air sample envelope. Record date, time, location, volume, and total counts on sample envelope and on Attachment 2.
5. Obtain another background count.
6. Remove the sample holder slide drawer. Place the iodine cartridge in the sample holder.
7. Record the total counts.
8. Remove the iodine cartridge and store in a plastic bag. Record date, time, location, volume, and total counts on plastic bag and on Attachment 2.

B. Use the count rate meter if a back-up counting instrument is needed.

4.6.10 Put a fresh particulate filter and Silver Zeolite iodine cartridge into holder for next air sample. Field teams should frisk hands after handling any samples.

4.6.11 Transmit results of air sampling to the dispatch center. (Be sure to identify team, time sample collected, survey location, sample count data and sample volume.) Acknowledge accurate receipt of information repeated back by radio dispatcher.

4.6.12 As directed by the dispatcher, proceed to next sampling location and survey in accordance with steps 4.6.2 - 4.6.4, or proceed with step 4.6.13.

4.6.13 As directed by the dispatcher, proceed to selected environmental monitoring stations to retrieve air samples and TLDs, if required. Survey radiation levels at these locations and record the data on the Downwind Survey Log Sheet, Attachment 2. Refer to steps 4.7, 4.8 or 4.9 as applicable.

**4.7 Air Sample Collection From Air Sample Monitoring Station**

4.7.1 For environmental sample collection, ensure requirements for EAP-27, ESTIMATION OF POPULATION DOSE WITHIN THE 10 MILE EPZ, have been fulfilled.

4.7.2 If information is needed from the Eberline radiation monitor cabinet, have the dispatcher call NMPC to dispatch a qualified environmental technician for assistance.

4.7.3 Don gloves. Unlock the Air Sample Monitoring Station cabinet using the P-5 key found in the emergency kit. Open the door using the "T" shaped key located in the locking device on the right-hand cabinet door.

4.7.4 Record the date, time, gas meter reading and gas meter used in the SAMPLE OFF space on the envelope located in the cabinet.

4.7.5 Turn the pump switch to the OFF position.

4.7.6 Unscrew the filter holder and remove the used particulate filter and radioiodine cartridge filters.

4.7.7 Indicate the direction of flow of the cartridge with an arrow and label with the sample station, and date. Place the used cartridge in a plastic bag. Place used filter in appropriate container.

4.7.8 Remove the gloves and place in a plastic bag for use at the next sample location, if appropriate.

4.7.9 Label a new air sample envelope with the sample station, date and time on, gas meter reading and gas meter number.

4.7.10 Reset the pump run time indicator or record time indicator reading as applicable. Inspect the flow path to the filter for obstructions.

4.7.11 Label the discharge side of a new particulate filter with the station designation and date. Label the new radioiodine cartridge with station designation, flow direction and date. Insert the new particulate filter and new radioiodine cartridge. Fasten the sample holder back together.

4.7.12 Check that the new particulate filter is placed on the inlet side of the radioiodine cartridge. Repeat 4.7.11 if the filter is placed incorrectly.

4.7.13 Turn the pump switch to the ON position.

4.7.14 Place the new air sample envelope in the cabinet.

4.7.15 Collect the emergency TLD and install a new emergency TLD utilizing procedure steps 4.8.1 through 4.8.3, if provided during briefing.

4.7.16 Close and lock the cabinet.

4.7.17 Load TLD and/or air samples in the vehicle.

4.7.18 Report your team number, sample location, and the information on the used air sample envelope to the radio dispatcher.

4.7.19 Continue to the next designated location and begin this procedure at step 4.7, 4.8, or 4.9 as applicable. If environmental sample collection has been completed, continue this procedure with step 4.10.

4.7.20 If air samples are to be taken using portable air samplers, refer to steps 4.6.5 - 4.6.9.

4.8 **Emergency TLD Collection/Installation**

4.8.1 Prior to collecting any emergency and/or environmental TLDs, ensure requirements of EAP-27, ESTIMATION OF POPULATION DOSE WITHIN THE 10 MILE EPZ, have been fulfilled.

4.8.2 Collect emergency TLD from survey/sample location or emergency TLD monitoring station. Record TLD number and location on Environmental/Emergency TLD Form, Attachment 15.

4.8.3 Install a new TLD. Record TLD number and location on Environmental/Emergency TLD Form, Attachment 15.

4.8.4 Complete steps 4.7.15 through 4.7.19 if you are at an air sampling location.

4.8.5 Load TLD in the vehicle.

4.8.6 Report your team number and sample location to the radio dispatcher at each location.

4.8.7 Continue to the next designated location and begin this procedure at step 4.7, 4.8, or 4.9, as applicable. If environmental sample collection has been completed, proceed to step 4.10.

**NOTE:** Environmental TLDs are to be collected only if replacements are available at the time of collection, unless otherwise instructed by the Radiological Support Coordinator or designee.

4.8.8 Collect environmental TLDs in accordance with steps 4.8.1 through 4.8.7. (Additional information concerning the collection of environmental TLDs is found in SP-04.01, RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM.)

## 4.9 Other Environmental Media Sample Collection

(Refer to Radiological Environmental Sampling Program, Attachment 16, for guidance while collecting samples.)

4.9.1 If water is to be sampled,

A. Measure and record (on Attachment 3) radiation readings at the surface and 3 feet above the surface of the water.

B. Collect surface water sample using clean, unused polyethylene containers. (Each sample must total one (1) gallon in volume, whether in one or more containers.)

C. Record applicable information on the Environmental Sample Information Form, Attachment 3. Make sure to indicate whether the sample is still water (i.e. pond) or running water (i.e. stream).

D. Seal containers for transit with tape.

E. Label containers with a date, time and location, and record on Attachment 3.

F. Load sample containers in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines.

4.9.2 If milk is to be sampled,

A. Measure and record (on Attachment 3) radiation readings at the surface and 3 feet above the surface of the container.

B. Request local farmers to remove raw milk samples from collecting tanks or direct samples from cows and place sample in clean, unused polyethylene containers in presence of sample team. (Each sample must total one (1) gallon in volume, whether in one or more containers.)

C. Record applicable information on the Environmental Sample Information Form, Attachment 3.

D. Seal containers for transit with tape.

E. Label containers with a date, time and location, and record on Attachment 3.

F. Load sample containers in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines.

4.9.3 If soil is to be sampled,

A. Measure and record (Attachment 3) radiation readings at surface of soil and 3 feet above it.

B. The potentially contaminated area should be segmented into a grid pattern of approximately 100 square feet (10 ft. x 10 ft.). The grid size may be adjusted to accommodate the overall area.

C. Prepare a sample map designating sample locations.

D. One sample shall be taken from each grid. The sample should represent a known sample surface area which is determined by the sampling device used. The size of the surface area should be sufficient to provide a minimum of 500 ml of sample.

E. Use a sample device of a known surface area, such as a small coring device or a small trowel with a template.

F. Samples shall be collected to depth of 1.0 inch, or when taking samples of a deeper profile, the soil should be removed to the desired depth in 1.0 inch layers down to the desired depth. Using the sampling device, carefully remove each inch layer (as required) of soil. Rock and debris greater than approximately 0.5" across should be removed from the sample.

G. Place the soil in a plastic bag and seal with tape. Only one layer of soil should be placed in each bag. Label the bag with the date, time, location, and grid location, sample surface area and map number, if appropriate.

H. Place a stake in the ground where the sample was taken. Note the sample number on the stake. This step is optional.

I. Wipe down the digging tool and plastic ring to avoid the spreading of contamination to the next sample location.

J. Record appropriate data on Attachment 3.

K. Load samples in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines.

4.9.4 If vegetation is to be sampled,

A. Measure and record (Attachment 3) radiation readings at surface and 3 feet above it.

B. Vegetation should be sampled based on deposition possibilities and availability for sufficient sample size. Tree or shrub leaves should be sampled from the outer perimeter of the tree or shrub that is not sheltered and would be most representative of deposition. Ground covers such as lettuce or flowers should be sampled from open areas. Large leaf vegetation is better than small leaf vegetation. If rain has occurred since the release, any deposited contamination may have been washed off.

C. Take samples of leafy vegetation in quantities of about 2 1/2 pounds (approximately 1 kg.) using shears if necessary.

D. Place samples in an appropriate size polyethylene bag and close bag securely.

E. Record applicable information on the Environmental Sample Information Form, Attachment 3.

F. Label bag with the date, time and location, and record on Attachment 3.

G. Load sample bags in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines.

4.9.5 If snow is to be sampled,

A. Select the area to be sampled from the general location that has not been subjected to non-meteorological disturbances (i.e. plowing, etc.). When selecting areas to sample consideration must be given to the following variables:

1. Rate of snowfall at and since the time of release (i.e. this would influence the snow sample depth of interest).

2. Air temperatures since the snowfall of interest has occurred (i.e. warming trend may cause surface snow to melt).

3. Wind speed and direction (i.e. drifting of snow).

4. Sunshine, rain or other conditions occurring after the snowfall of interest (i.e. melting, freezing and/or rain may mean the snow deposition is fixed in an ice layer and is not affected by winds).

B. Measure and record (Attachment 3) radiation readings at surface of snow and 3 feet above it.

C. Locate two (2) reference points at the sampling location.

D. Collect snow at a depth sufficient to be representative of the snow of interest (i.e. see variables in step 4.9.5.A). A sample size of approximately one square foot area should be obtained.

E. Place sample in clean, unused polyethylene bag. It is recommended that containers be double bagged to prevent leakage as snow melts. Label sample with the date, time, location and number.

F. Record the following data on Attachment 3: location selected, area sampled in square feet, depth sampled, direction and approximate feet from two reference points, weather conditions, and time of sampling.

G. Load samples in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines

4.9.6 If grass is to be sampled,

A. Measure and record (Attachment 3) radiation readings at the surface and 3 feet above it.

B. Locate two reference points at the sampling location.

C. Clip the grass in the sample area as close to the roots as possible without including dirt. Grass samples should total 1 kg. in volume.

D. Place samples in an appropriate size container and close securely. Label sample with the date, time and location.

E. Record applicable information on Attachment 3: location selected, direction and distance from two reference points, time of sampling and approximate surface area sampled.

F. Load samples in vehicle for transfer to laboratory for analysis. Refer to step 4.11 Environmental Lab Radiological Sample Guidelines.

**4.10 Survey Team Closeout**

4.10.1 Return to the location specified by the dispatcher and turn in samples and records.

4.10.2 Before dropping off the vehicle, remove any protective clothing and respirators. Place the used protective clothing on the vehicle floor until a contamination survey is completed.

4.10.3 Check the survey vehicle interior and exterior for possible contamination with the count rate meter before leaving the vehicle in the parking lot. Report readings above background as designated during briefing to the dispatcher for further instructions. Otherwise, proceed to the location specified. See EAP-24, EOF VEHICLE AND PERSONNEL DECONTAMINATION.

4.10.4 Check equipment for contamination at the dispatch center. If contamination is found, refer to EAP-24, EOF VEHICLE AND PERSONNEL DECONTAMINATION.

4.10.5 Monitor each other for contamination (>100 cpm above background on a count rate survey meter). If contamination is detected, radio the dispatcher to request further directions and aid in performing decontamination measures. See EAP-24, EOF VEHICLE AND PERSONNEL DECONTAMINATION. Request an individual to pick up environmental samples, TLDs and data forms so that laboratory analyses can be made. Return to the dispatch center after decontamination with your dosimeters.

4.10.6 Check each team member's dosimeter reading, record it under "Final Dosimeter Reading" on Attachment 1. Turn over this record and the other data forms to the dispatcher, Chemistry Lab or Environmental Lab as appropriate.

4.10.7 Deliver applicable samples to the Environmental Laboratory for analysis following step 4.11 Environmental Lab Radiological Sample Guidelines.

**4.11 Environmental Lab Radiological Sample Guidelines**

4.11.1 All samples are to be screened for radioactivity.

4.11.2 Samples that screen greater than two (2) times background shall be:

A. Treated as radioactively contaminated;

B. Stored in the contaminated samples storage room and shielded as appropriate to prevent elevated background levels in the counting room.

4.11.3 Radiological samples brought to the Environmental Laboratory are subject to the following guidelines:

A. The contact dose rate shall be limited to 5.0 mr/hr or less.

B. Smearable contamination on transport containers shall be limited to 1000 dpm/100 sq cm or less.

4.11.4 Samples that exceed the above guidelines, or as directed by the Radiological Support Coordinator, should be analyzed at an alternate location, such as but not limited to:

A. JAF on-site Chemistry Lab, **OR**

B. Nine Mile Point, **OR**

C. Ginna

5.0 **ATTACHMENTS**

1. SURVEY TEAM BRIEFING FORM
2. DOWNWIND SURVEY LOG SHEET
3. ENVIRONMENTAL SAMPLE INFORMATION FORM
4. ONSITE EMERGENCY PLANNING SURVEY MAP
5. ONSITE ENVIRONMENTAL STATION AND TLD LOCATIONS
6. OFFSITE ENVIRONMENTAL STATION AND TLD LOCATIONS
7. ONSITE EMERGENCY PLANNING SURVEY
8. OFFSITE SURVEY LOCATIONS MAP 4
9. COMBINED NMPNS/JAFNPP SITE MAP
10. TABLE OF ONSITE AND OFFSITE SURVEY/SAMPLE LOCATIONS
11. LIST OF ENVIRONMENTAL MONITORING STATIONS
12. LIST OF ENVIRONMENTAL TLDS
13. LIST OF EMERGENCY TLDS
14. SURVEY TEAM COMMUNICATION FORM
15. ENVIRONMENTAL/EMERGENCY TLD FORM
16. RADIOLOGICAL ENVIRONMENTAL SAMPLING PROGRAM
17. NMP SITE SURVEY LOCATIONS

# SURVEY TEAM BRIEFING FORM

1. Date _____ Time _____ Team No. _____ Survey Requested By _____

2. Team Dispatcher _____; Dispatch Center at _____ tel. no. _____

3. Team Leader _____; Initial dosimeter reading _____ TLD No. _____
   Final dosimeter reading _____

4. Team Member _____; Initial dosimeter reading _____ TLD No. _____
   Final dosimeter reading _____

5. Maximum dose allowed for this survey: (Refer to EAP-15, Emergency Exposure Criteria and Control*)
   Team Leader: _____ rem; authorized by: _____
   Team Member: _____ rem; authorized by: _____

6. Nature of airborne release: _____ ground; _____ elevated; _____ unknown.

7. Survey points/locations: _____
   _____

8. Wind directions (from) or critical sectors/ERPAs: _____

9. Environmental monitoring stations to be checked and samples brought back: (if known)
   Station No. or location: _____, for: _____ air; _____ TLD
   _____, for: _____ air; _____ TLD
   _____, for: _____ air; _____ TLD

10. Projected dose rates at survey locations (when available):
    location: _____: dose rate: _____ mr/hr
    location: _____: dose rate: _____ mr/hr
    location: _____: dose rate: _____ mr/hr

11. Protective measures to be used:
    (1) __x__ pocket dosimeter
    (2) __x__ TLD
    (3) _____ other dosimeter (specify)
    (4) _____ SCBA
    (5) _____ respirator/cartridges/filters
    (6) _____ coveralls/hood
    (7) _____ gloves
    (8) _____ shoe covers
    (9) _____ KI
    (10) other (specify)
    _____
    _____
    _____

12. Radiation data to be collected:
    (1) beta/gamma (3 foot)
    (2) air sample
    (3) beta/gamma (3 inches)
    (4) other (specify) _____

13. Use of KI (refer to EAP-19, EMERGENCY USE OF POTASSIUM IODIDE (KI))

14. Assigned radio channel/telephone number for callback: _____

15. Any other special or hazardous conditions: _____

16. Special instructions: _____
    _____

17. Meteorological Data/Forecast: _____
    _____

18. Plant conditions/emergency classification: _____
    _____

19. Survey Info. briefed/filled in by _____ at _____

**A COPY OF THIS FORM SHALL BE PROVIDED TO EACH SURVEY TEAM.**

# DOWNWIND SURVEY LOG SHEET



**Date of Surveys** ___/___/___

**Team No.** ____:
(Name) _____
(Name) _____
(Name) _____

**Team No.** ____:
(Name) _____
(Name) _____
(Name) _____

**Team No.** ____:
(Name) _____
(Name) _____
(Name) _____

**NOTE:** Iodine canisters with count rate greater than 8,500 net cpm should be returned to the site for HPGe analysis on a priority basis.

| Team No. | Survey Location | Distance From Site (miles) | Time | Dose Rate 3 inch (mrem/hr) | Dose Rate 3 foot (mrem/hr) | Sample Volume ($ft^3$) (obtain 25 $ft^3$) | Air Sample net cpm (Gross-Bkg=Net) |
|---|---|---|---|---|---|---|---|
| | | | | Open Window = | Open Window = | | Iodine Bkg:<br>Iodine Net: |
| | | | | Closed Window = | Closed Window = | | Part. Bkg:<br>Part. Net: |
| | | | | Open Window = | Open Window = | | Iodine Bkg:<br>Iodine Net: |
| | | | | Closed Window = | Closed Window = | | Part. Bkg:<br>Part. Net: |
| | | | | Open Window = | Open Window = | | Iodine Bkg:<br>Iodine Net: |
| | | | | Closed Window = | Closed Window = | | Part. Bkg:<br>Part. Net: |

Team No. _____:
Dose Rate Instrument Model # _____ S/N _____
Count Rate Instrument Model # _____ S/N _____
High Volume Air Sampler Model # _____ S/N _____

Team No. _____:
Dose Rate Instrument Model # _____ S/N _____
Count Rate Instrument Model # _____ S/N _____
High Volume Air Sampler Model # _____ S/N _____

Team No. _____:
Dose Rate Instrument Model # _____ S/N _____
Count Rate Instrument Model # _____ S/N _____
High Volume Air Sampler Model # _____ S/N _____

# ENVIRONMENTAL SAMPLE INFORMATION FORM

Type of Sample _____ Sample Number _____

Date _____ Time _____

Technician _____

Location _____

Reference Object #1 Reference Object #2

_____ Direction _____

_____ Distance _____

## Draw Map

Radiation Survey Before Sampling

Reading at Surface _____mrad/hr(OW) _____mr/hr (CW)

Reading at 3 feet _____mrad/hr(OW) _____mr/hr (CW)

Sample Size (sq. ft.) _____ Sample Depth (in.) _____
(if appropriate) (if appropriate)

Weather conditions _____

_____

Remarks _____

_____

ATTACHMENT 4

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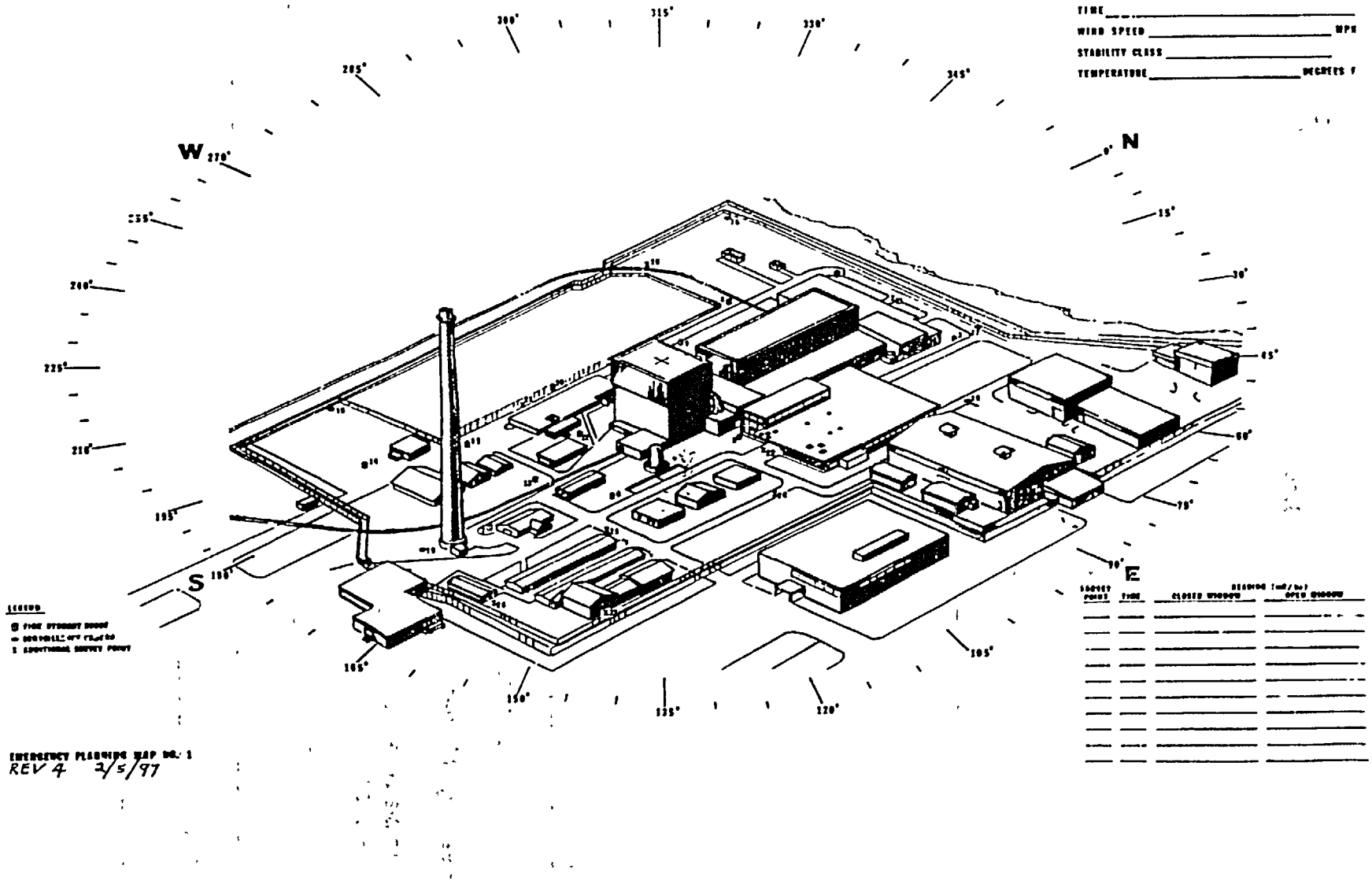
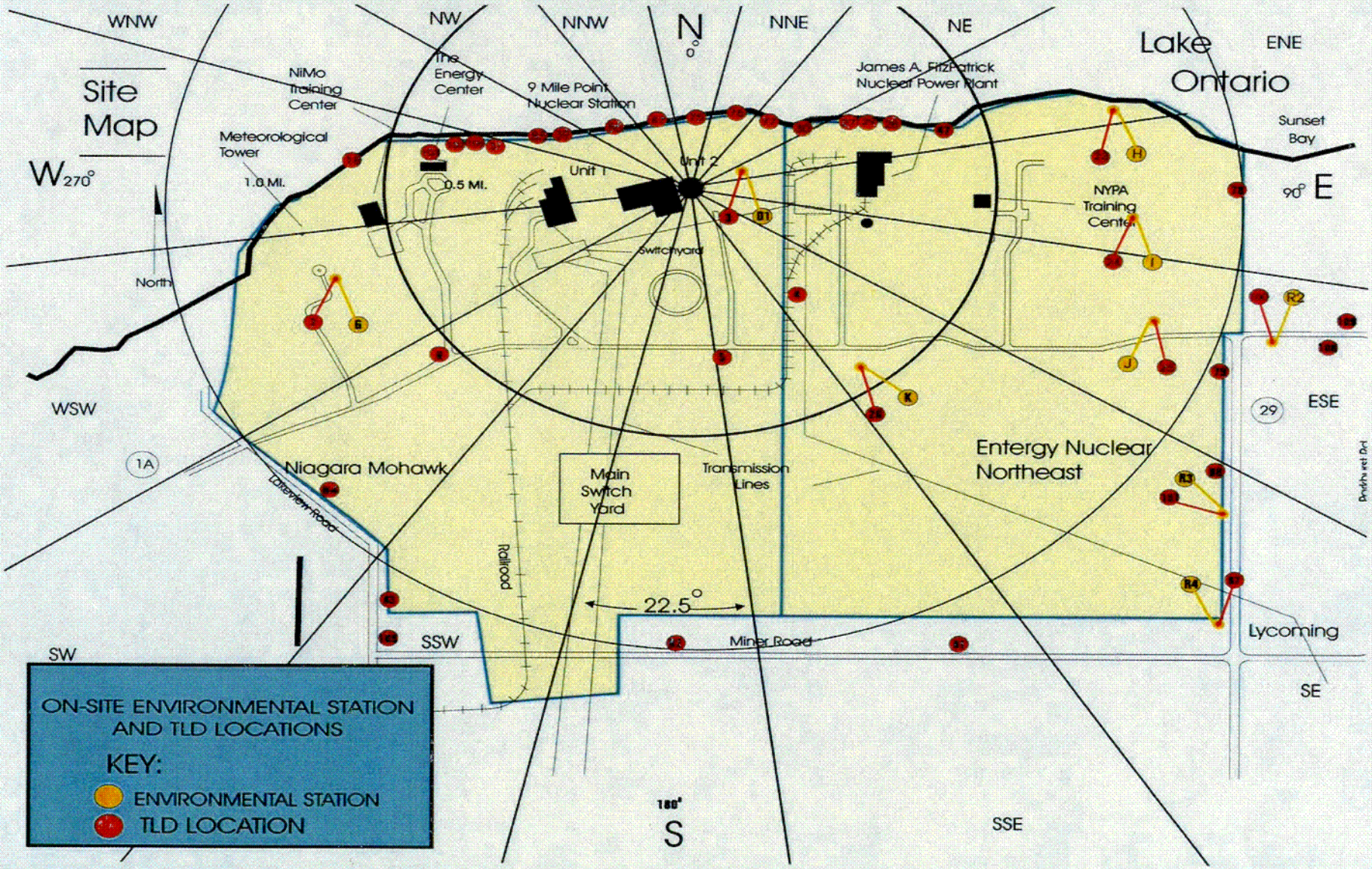
ONSITE EMERGENCY PLANNING SURVEY MAP



ATTACHMENT 5



ONSITE ENVIRONMENTAL STATION AND TLD LOCATIONS

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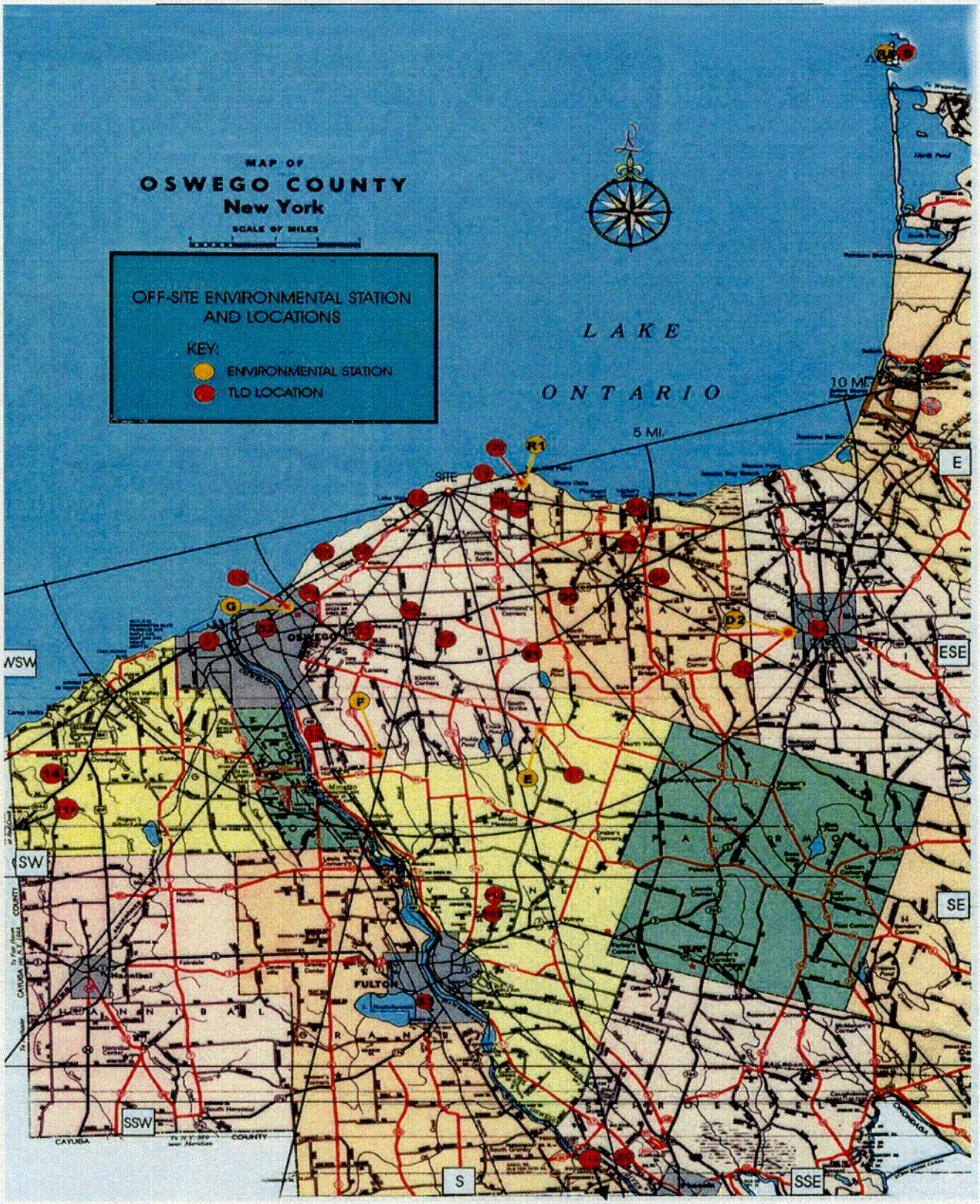
ATTACHMENT 6 Page 1 of 1

OFFSITE ENVIRONMENTAL STATION AND TLD LOCATIONS

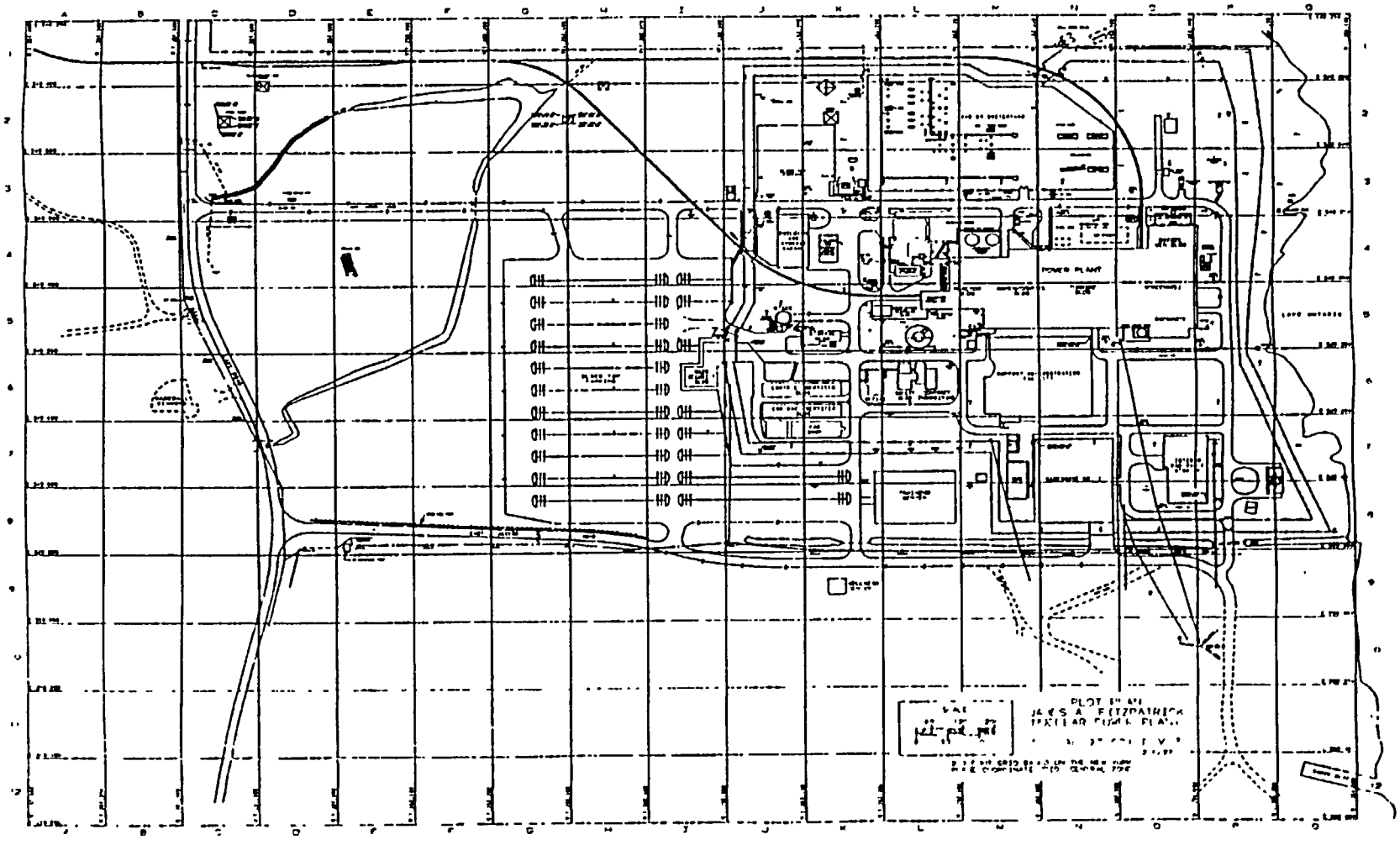



C02

ATTACHMENT 7

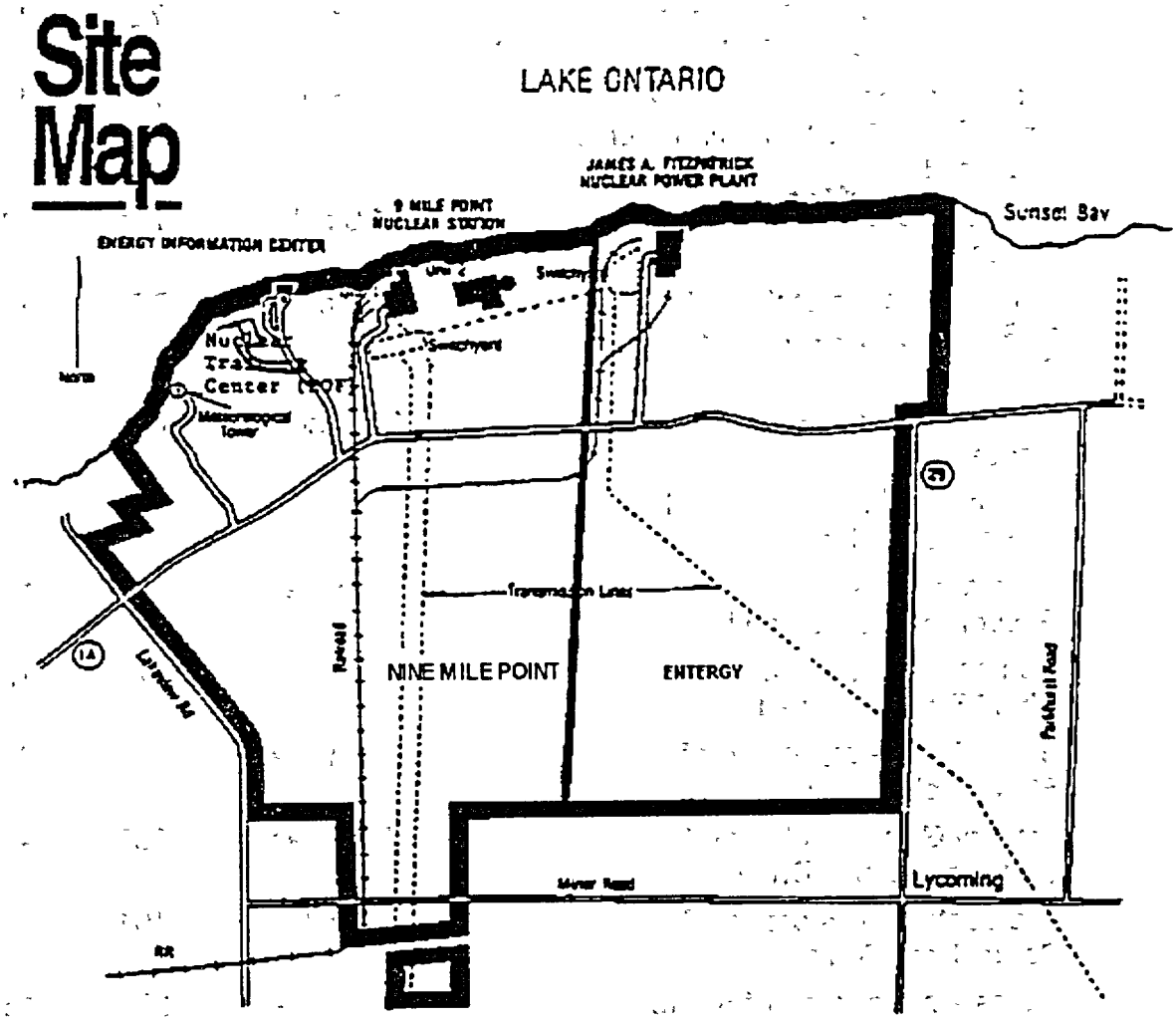


ONSITE EMERGENCY PLANNING SURVEY



ATTACHMENT 9
COMBINED NMPNS/JAFNPP SITE MAP





ATTACHMENT 10 

TABLE OF ONSITE AND OFFSITE SURVEY/SAMPLE LOCATIONS

| SECTOR & SAMPLE ID# | LOCATION DESIGNATION | DISTANCE FROM SITE** | AZIMUTH° | ERPA(S) |
|---|---|---|---|---|
| C-1 (offsite) | 1.3 miles north on Montario Point Road by Environmental Station C. | 16.2 miles | 40° | N/A* |
| D-1 (onsite) | 30' south of Main Warehouse at NMP-2 BY ENVIRONMENTAL STATION $D_1$ | 0.4 miles | 72° | 1 |
| D-2 (onsite) | Dirt access road along the lake on JAFNPP Site by Environmental Station H. | 1.0 mile | 73° | 1 |
| D-3 (offsite) | In hamlet of Selkirk on County Route 5. | 11.3 miles | 71° | 14 |
| D-4 (offsite) | 0.65 miles north of the entrance to Selkirk Shores State Park on Route 3. | 11.3 miles | 77° | 14 |
| D-5 (offsite) | Corner Rainbow Shores Road and Route 3. | 13.5 miles | 65° | N/A* |
| E-1 (onsite) | In front of NMP-2 combined construction offices. | 0.3 miles | 89° | 1 |
| E-2 (onsite) | On dirt access road at Environmental Station I | 0.9 miles | 93° | 1 |
| E-3 (offsite) | Corner of Lake Road and Nine Mile Point Road. | 1.9 miles | 97° | 1,2 |
| E-4 (offsite) | Shore Oaks - at the end of Shore Oaks Drive. | 2.7 miles | 94° | 2,4 |
| E-5 (offsite) | Hickory Grove - at the end of Hickory Grove Drive. | 4.6 miles | 96° | 4 |
| E-6 (offsite) | Intersection of Route 104B, Route 1 and Route 43. | 6.6 miles | 101° | 7 |
| E-7 (offsite) | Texas - intersection of Route 104B and County Route 16. | 7.8 miles | 95° | 15 |
| E-8 (offsite) | Corner of Ramona Beach Road AND ROUTE 3. | 10.2 miles | 86° | 14 |

*N/A = not in an ERPA, outside 10 mile EPZ.

**Center of site is NMP Unit 2.

TABLE OF ONSITE AND OFFSITE SURVEY/SAMPLE LOCATIONS

| SECTOR & SAMPLE ID# | LOCATION DESIGNATION | DISTANCE FROM SITE** | AZIMUTH° | ERPA(S) |
|---|---|---|---|---|
| F-1 (onsite) | Along Lake Road about 0.3 miles east of JAFNPP access road to Environmental Station J. | 1.2 miles | 107° | 1 |
| F-2 (offsite) | Intersection of County Route 29 and Lake Road. | 1.1 miles | 105° | 1 |
| F-3 (offsite) | Nine Mile Point Road halfway between Lake Road and Miner Road intersection. | 2.1 miles | 114° | 2 |
| F-4 (offsite) | Intersection of Pleasant Point Drive and County Route 1. | 3.9 miles | 110° | 4 |
| F-5 (offsite) | Intersection of Route 104 and Route 6 by New Haven School and Environmental TLD #56. | 5.5 miles | 121° | 4,7,8,9 |
| F-6 (offsite) | Intersection of Route 104 and Route 43 at Tollgate. | 7.4 miles | 116° | 7,8 |
| -7 (offsite) | Intersection of County Route 64 and Route 104 in the Village of Mexico. | 9.3 miles | 117° | 16 |
| G-1 (onsite) | NMP-2 Main Access Road near Security Building. | 0.2 miles | 129° | 1 |
| G-2 (onsite) | Along NMP-2 material access road near Lake Road intersection. | 0.5 miles | 142° | 1 |
| G-3 (onsite) | 250' south of JAFNPP access road on Lake Road by Environmental Station K. | 0.7 miles | 131° | 1 |
| G-4 (offsite) | Intersection of Miner Road and County Route 29. | 1.9 miles | 142° | 1,2 |
| G-5 (offsite) | Intersection of Nine Mile Point Road and County Route 1. | 2.8 miles | 134° | 2,4,5 |
| G-6 (offsite) | Intersection of Route 104 & 104B. | 4.8 miles | 126° | 4,9 |
| G-7 (offsite) | Intersection of Lilly Marsh Road and Darrow Road. | 6.1 miles | 35° | 9 |
| G-8 (offsite) | Cummings Bridge - intersection of Routes 6 and 51. | 7.3 miles | 136° | 8,9 |

Center of site is NMP Unit 2.

ATTACHMENT 10 

TABLE OF ONSITE AND OFFSITE SURVEY/SAMPLE LOCATIONS

| SECTOR & SAMPLE ID# | LOCATION DESIGNATION | DISTANCE FROM SITE** | AZIMUTH° | ERPA(S) |
|---|---|---|---|---|
| G-9 (offsite) | Hamlet of Vermillion on Route 35. | 9.6 miles | 137° | 8,18 |
| H-1 (onsite) | South side of Lake Road about 800' west of NMP-2 material access road. | 0.5 miles | 155° | 1 |
| H-2 (offsite) | Nine Mile Pole #3, half-way between the two transmission lines on Miner Road. | 1.6 miles | 157° | 1,2,3 |
| H-3 (offsite) | North Scriba - intersection of County Routes 1 and 29. | 2.5 miles | 152° | 2,5 |
| H-4 (offsite) | Hammonds Corners - intersection of Routes 104 and 29. | 3.5 miles | 159° | 5,10 |
| H-5 (offsite) | South New Haven - intersection of Routes 51 and 51A. | 5.2 miles | 149° | 9 |
| H-6 (offsite) | 250' east of O'Connor Road and County Route 4 by Environmental Station E. | 7.1 miles | 159° | 18 |
| H-7 (offsite) | Intersection of County Route 6 and McDougall Road. | 9.2 miles | 156° | 18 |
| J-1 (onsite) | Along Lake Road, south of NMP-2 Cooling Tower. | 0.4 miles | 174° | 1 |
| J-2 (offsite) | NMP Pole #1 - intersection of Miner Road and NMP Transmission Road. | 1.5 miles | 177° | 1,3 |
| J-3 (offsite) | Intersection of North Road and NMP Transmission Lines east of Lakeview Road. | 2.2 miles | 178° | 3,5 |
| J-4 (offsite) | Intersection of Route 104 and County Route 51A. | 3.8 miles | 176° | 5,10 |
| J-5 (offsite) | Intersection of O'Connor Road and Hay Fly Road. | 5.5 miles | 176° | 10 |
| J-6 (offsite) | Intersection of Route 176 and Black Creek Road. | 7.9 miles | 177° | 20 |
| J-7 (offsite) | Intersection of Route 176 and Howard Road. | 11.1 miles | 176° | N/A* |

*N/A = not in an ERPA, outside 10 mile EPZ.
**Center of site is NMP Unit 2.

TABLE OF ONSITE AND OFFSITE SURVEY/SAMPLE LOCATIONS

| SECTOR & SAMPLE ID# | LOCATION DESIGNATION | DISTANCE FROM SITE** | AZIMUTH° | ERPA(S) |
|---|---|---|---|---|
| K-1 (onsite) | Intersection of Lake Road and E. I. C. ROAD. | 0.8 miles | 211° | 1 |
| K-2 (offsite) | Intersection of Miner Road and Lakeview Road. | 1.6 miles | 189° | 1,3 |
| K-3 (offsite) | Intersection of County Route 1 (North Road) and Creamery Road. | 2.6 miles | 205° | 3,5,6 |
| K-4 (offsite) | Scriba - intersection of Route 104, Creamery Road and Klocks Corners Road. | 3.9 miles | 194° | 5,6,10,11 |
| K-5 (offsite) | Lansing - intersection of County Routes 4 & 53. | 5.7 miles | 201° | 11,19 |
| K-6 (offsite) | 0.55 miles east of the corner of Route 53 and Dutch Ridge Road by Environmental Station F. | 7.6 miles | 193° | 19 |
| K-7 (offsite) | Minetto - intersection of County Route 48 and Worden Road. | 9.0 miles | 201° | 21 |
| -1 (onsite) | Energy Information Center access road, approx. 600' from Lake Road. | 0.5 miles | 224° | 1 |
| L-2 (offsite) | Intersection of Lakeview and Lake Road (Co. Rt. 1A). | 1.4 miles | 219° | 1,3 |
| L-3 (offsite) | Walker - intersection of County Routes 1 and 1A. | 3.1 miles | 221° | 3,6 |
| L-4 (offsite) | 100' N of Seneca St. on St. Paul's Cemetery Road by Env. Sta. G. | 5.2 miles | 226° | 12 |
| L-5 (offsite) | Oswego - inter. of Rtes. 104 & 481. | 6.6 miles | 229° | 12 |
| L-6 (offsite) | SUNY at Oswego - intersection of Route 104 and college access road. | 8.1 miles | 232° | 22 |
| L-7 (offsite) | Oswego Center - intersection of County Routes 7 and 20. | 9.6 miles | 220° | 20 |
| M-1 (onsite) | Energy Information Center access road - near intersection to NMP Training Center. | 0.5 miles | 246° | 1 |
| M-2 (onsite) | Meteorological Tower. | 0.8 miles | 250° | 1 |
| N-1 (onsite) | Energy Information Center. | 0.4 miles | 265° | 1 |

**Center of site is NMP Unit 2.

ATTACHMENT 11



LIST OF ENVIRONMENTAL MONITORING STATIONS

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| D | D1 Onsite | 30' south of NMP-2 Main Warehouse. | E, N.E. | 2500' |
| D | H Onsite | Dirt access road on JAFNPP site along the lake. | E, N.E. | 5000' |
| E | I Onsite | Along dirt access road .5 mile south of Environmental Station H (onsite). | E | 4500' |
| F | J Onsite | Along Lake Road (1600') .3 mile east of JAFNPP access road. | E, S.E. | 4700' |
| F | K Onsite | 250' south of Lake Road near JAFNPP access road. | E, S.E. | 3525' |
| K | G Onsite | Nine Mile Meteorological Tower. | S, S.W. | 2100' |

ATTACHMENT 11



LIST OF ENVIRONMENTAL MONITORING STATIONS

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| E | R1 Offsite | NMP Road, .4 miles North of Lake Road | E | 1.8 miles |
| F | R2 Offsite | Rt. 29 and Lake Road | E, S.E. | 1.5 miles |
| G | R3 Offsite | Rt. 29, .7 miles South of Lake Road | S.E. | 1.5 miles |
| G | R4 Offsite | Rt. 29 and Miner Road | S.E. | 2.2 miles |
| C | R5 Offsite | 0.3 miles north on Montario Point Road | N.E. | 16.2 miles |
| L | G | 100' N. of Seneca St. on St. Paul's Cemetery Rd. | S.W. | 5.3 miles |
| F | D2 | 0.75 mile W. on Co. Rt. 64 in Village of Mexico | E, S.E. | 9.1 miles |
| H | E | 250' E. of O'Connor Rd. on Co. Rt. 4 | S, S.E. | 7.3 miles |
| J | F | 0.55 mile E. of Co. Rt. 53 on Dutch Ridge Road | S | 7.8 miles |

LIST OF ENVIRONMENTAL TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| A | 75 | Unit 2, N. Fence North of Rx. Bldg. (RETS #6) | N | 800' |
| A | 76 | Unit 2, N. Fence North of Change House (RETS #7) | N | 600' |
| A | 77 | Unit 2, N. Fence North of Pipe Bldg. (RETS #8) | N | 600' |
| A | 86 | Unit 2, N. Fence, N. of W. Side Screen House (RETS #20) | N | 500' |
| A | 87 | Unit 2, N. Fence, N. of E. Side Screen House (RETS #21) | N | 500' |
| B | 39 | N. Fence, Opp. RW Bldg. NMP-1 | N, N.E. | 300' |
| D | 3 | 30' South of NMP-2 Stone & Webster Warehouse by Environmental Station D1 | E, N.E. | 2500' |
| D | 23 | Dirt access road along the Lake on JAFNPP site by Environmental Station H (Onsite) (RETS #9) | E, N.E. | 5000' |
| D | 27 | North fence inside JAFNPP by lake shore, North of Screenhouse | E, N.E. | 1100' |
| D | 28 | Light pole inside JAFNPP across from road intersection, North of Screenhouse | E, N.E. | 3600' |
| D | 29 | North fence inside JAFNPP North of Screenhouse | E, N.E. | 3400' |
| D | 30 | Northwest corner of fence at lake shore | E, N.E. | 2800' |
| D | 47 | NE shoreline inside JAFNPP on fence near Sewage Treatment Plant | E, N.E. | 4100' |
| E | 19 | East boundary JAFNPP Site Pole #9 | E | 6900' |
| E | 24 | Along dirt access road by I Onsite Environmental Station | E | 4500' |

## LIST OF ENVIRONMENTAL TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| E | 78 | JAF, E. of E. Old Laydown Area, on tree (RETS #10) | E | 4900' |
| E | 106 | Shoreline Cove, E. of NMP-1, tree of W. edge | E | 6900' |
| E | 107 | Shoreline Cove, E. of NMP-1, tree 30' S. of #106 | E | 6900' |
| F | 25 | Along Lake Road (1600') 0.3 mile east of JAFNPP access road by J Onsite Environmental Station | E, S.E. | 4700' |
| F | 26 | 250' south of Lake Road, near JAFNPP access road by K Onsite Environmental Station | E, S.E. | 3525' |
| G | 4 | Along NMP-2 access road 50' from Lake Road | S.E. | 2800' |
| G | 5 | Along south side of Lake Road 800' west of materials access road | S.E. | 2300' |
| J | 6 | Along south side of Lake Road 500' east of NMP-1 access road | S | 2000' |
| K | 7 | 0.5 mile north of Lake Road at NMPC meteorological tower by G Onsite Environmental Station (RETS #17) | S, S.E. | 2100' |
| N | 18 | Energy Information Center picnic area north shore on lamp post (RETS #18) | W | 1600' |
| N | 103 | Energy Information Center Garage Road, lamp post | W | 1600' |
| Q | 31 | North fence NMP-1 | N, N.W. | 00' |
| Q | 85 | Unit 1, N. Fence, N. of W. Side Screen House (RETS #19) | N, N.W. | 400' |

LIST OF ENVIRONMENTAL TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| C | 8 | 0.3 miles West on Montario Point Road by R5 Offsite Environmental Station | N.E. | 16.2 miles |
| D | 55 | Gas Substation, Route 5, West of Pulaski, New York | E, N.E. | 14.0 miles |
| E | 9 | 0.65 mile north of the entrance to Selkirk Shores State Park on Route 3 | E | 11.7 miles |
| E | 88 | Hickory Grove Rd., pole #2 0.6 miles N, of Rt. 1 (RETS #22) | E | 4.8 miles |
| E | 98 | Lake Rd., pole #145, 0.15 miles E. of Rt. 29 (RETS #37) | E | 1.2 miles |
| E | 99 | NMP Rd., 0.4 miles N. of Lake Rd. Environmental Station R1 | E | 1.8 miles |
| F | 10 | 0.75 mile west on County Route 64 in Village of Mexico by Environmental Station D2 | E, S.E. | 9.1 miles |
| F | 56 | Route 104 New Haven School S.E. corner on pole (RETS #35) | E, S.E. | 5.3 miles |
| F | 54 | Liberty Street & County Route 16 - Mexico High School on pole | E, S.E. | 9.8 miles |
| F | 79 | Co. Rt. 29 S, pole #63, 0.2 miles S. of Lake Rd. (RETS #11) | E, S.E. | 1.3 miles |
| F | 89 | Leavitt Rd., pole #16, 0.4 miles S. of Rt. 1 (RETS #23) | E, S.E. | 5.0 miles |
| F | 100 | Rt. 29 and Lake Rd., Env. Sta. R2 | E, S.E. | 1.5 miles |
| F | 104 | Parkhurst Rd. Pole #148□A, 0.1 mi. S. of Lake Rd. | E, S.E. | 1.6 miles |
| F | 108 | Lake Rd., Pole #143, 300 ft. East of Rt. 29, south side | E, S.E. | 1.0 miles |

## LIST OF ENVIRONMENTAL TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| F | 109 | Lake Rd., tree 300 ft. East of Rt. 29, north side | E, S.E. | 1.0 miles |
| G | 80 | Co. Rt. 29 S, pole #54, 0.7 miles S. Lake Rd. (RETS #12) | S.E. | 1.8 miles |
| G | 90 | Rt. 104, pole #300, 150 ft. E. of Keefe Rd. (RETS #24) | S.E. | 4.4 miles |
| G | 97 | Rt. 29, pole #50, 200 ft. N. of Miner Rd. by Env. Sta. R4 (RETS #34) | S.E. | 1.5 miles |
| G | 101 | Rt. 29, 0.7 miles S. of Lake Rd., Env. Sta. R3 | S.E. | 1.5 miles |
| H | 11 | 250' east of O'Connor Road on County Route 4 by E Offsite Environmental Station | S, S.E. | 7.3 miles |
| H | 49 | Phoenix, N.Y. - Control (Connolly Res.) (RETS #30) | S, S.E. | 19.6 miles |
| H | 81 | Miner Rd., pole #16, 0.5 miles W. of Rt. 29 (RETS #13) | S, S.E. | 1.7 miles |
| H | 91 | Rt. 51A, pole #59, 0.8 miles W of Rt. 51 (RETS #25) | S, S.E. | 5.0 miles |
| J | 12 | 0.55 mile East of County Route 53 on Dutch Ridge Road by F Offsite Env. Sta. | S | 7.8 miles |
| J | 53 | Broadwell & Chestnut Street Fulton High School | S | 14.8 miles |
| J | 82 | Miner Rd. pole #1 1/2, 1.1 miles W. of Rt. 29 (RETS #14) | S | 1.7 miles |
| J | 92 | Maiden Lane Rd., power pole, 0.6 miles S of Rt. 104 (RETS #26) | S | 4.5 miles |
| J | 102 | EOF/EL, Fulton Airport | S | 11.5 miles |
| J | 112 | EOF/EL, Fulton Airport | S | 11.5 miles |

## LIST OF ENVIRONMENTAL TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| K | 83 | Lakeview Rd., Birch Tree, 0.45 miles N. of Miner Rd. (RETS #15) | S, S.W. | 1.2 miles |
| K | 93 | Rt. 53, pole #1-1, 120 ft. S of Rt. 104 (RETS #27) | S, S.W. | 4.5 miles |
| K | 105 | Lakeview Rd. Pole #6125, 0.6 miles S. of Lake Rd. | S, S.W. | 1.4 miles |
| K | 96 | Creamery Rd. 0.3 miles S. of Middle Rd., pole 1 ½ (RETS #32) | S, S.W. | 3.7 miles |
| L | 13 | 100' N. of Seneca Street on St. Paul's Cemetery by G Environmental Station | S.W. | 5.3 miles |
| L | 14 | DeMass Road, S.W. Oswego - Control (RETS #31) | S.W. | 12.4 miles |
| L | 52 | East 12th & Cayuga Streets Fitzhugh Elementary School | S.W. | 6.0 miles |
| L | 58 | Corner of County Route 1 and Alcan (E. of E. Entrance) | S.W. | 2.9 miles |
| L | 84 | Lakeview Rd. N. pole #6117, 200 ft. N. of Lake Rd. (RETS #16) | S.W. | 1.1 miles |
| L | 94 | Rt. 1, pole #82, 250 ft. E. of Kocher Rd. (RETS #28) | S.W. | 4.6 miles |
| L | 111 | J. Blasiak residence, Sterling, NY | S.W. | 17 miles |
| M | 51 | Oswego Steam Station, North end of west fence inside property (W. Liberty & Bronson Streets) | W, S.W. | 7.7 miles |
| M | 95 | Lakeshore Camp Site from Alcan W. Access Rd., pole #21, 1.2 miles N. of Rt. 1 (RETS #29) | W, S.W. | 3.5 miles |
| M | 15 | Pole #66, northeast section of Bible Camp (RETS #36) | S.W. | 1.0 mile |

## LIST OF EMERGENCY TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| A | E-1 | Directly north of NMP-1 SCREENHOUSE | N | 375' |
| D | E-2 | 30' south of NMP-2 Stone & Webster Warehouse by D1 Onsite Environmental Station | E, N.E. | 2500' |
| D | E-3 | Directly north of JAFNPP Screen-house on fence by Environmental TLD #29 | E | 3350' |
| D | E-4 | On solitary Black Walnut tree 250' south of H Onsite Environ-mental Station directly on Dynamite Road | E, N.E. | 4800' |
| E | E-39 | NMP Rd. 0.4 miles N. of Lake Rd. | E | 1.8 miles |
| E | E-24 | Hickory Grove at end of Hickory Grove Drive on NM pole #43 | E | 5.0 miles |
| E | E-30 | Intersection of Route 104B and Rt. 16 (Texas) on pole #153 | E | 8.0 miles |
| F | E-5 | 250' south of Lake Road near JAFNPP access road in woods by K Onsite Environmental Station | E, S.E. | 3525' |
| F | E-19 | Nine Mile Pole #58 1/3 the distance between Lake Road and Miner Road on west side of Route 29 | E, S.E. | 1.3 miles |
| F | E-20 | Pole #141-1, N.W. corner of intersection of County Route 29 and Lake Road (Co. Rt. 1-A) | E, S.E. | 1.2 miles |
| F | E-25 | Nine Mile Point Rd. halfway between Lake Rd. and Miner Rd. on pole #30 | E, S.E. | 2.2 miles |
| F | E-38 | 0.75 mile W of Rt. 104 on Co. Rt. 64 in Village of Mexico | E, SE | 9.1 miles |
| G | E-13 | Nine Mile Pole #46, S.E. corner of intersection of Miner Road and County Route 29 | S.E. | 1.8 miles |

LIST OF EMERGENCY TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| G | E-16 | 10' high on first metal tower south of K Onsite Environmental Station | S.E. | 1.0 mile |
| G | E-17 | Nine Mile Pole #15, first pole on Miner Road and JAFNPP transmission line | S.E. | 1.3 miles |
| G | E-18 | Nine Mile Pole #53, 2/3 distance between Lake and Miner Roads on west side of Route 29 | S.E. | 1.6 miles |
| G | E-26 | Intersection of Nine Mile Point Road and County Route 1 on NM pole #112 | S.E. | 2.8 miles |
| G | E-37 | Sundown Rd. off Co. Rt. 35. Pole for Siren #31. | S.E. | 9.5 miles |
| H | E-12 | Nine Mile Pole #5, half-way between the two transmission lines on Miner Road | S, S.E. | 1.5 miles |
| H | E-6 | On wood pole, 10' high, half-way between 5 & 6 Onsite Environmental TLD Stations on Lake Road, 100' from NMP-1 access road | S | 2000' |
| H | E-27 | Intersection of County Route 1 and County Route 29 on NM pole #216 | S, S.E. | 2.6 miles |
| H | E-36 | 250' E. of O'Connor Rd. on Co. Rt. 4 near Env. Station | S, S.E. | 7.3 miles |
| J | E-10 | North side of Nine Mile Pole #20 on the west side of the intersection of Miner and Lakeview Roads | S | 1.5 miles |
| J | E-11 | Nine Mile Pole #1 by intersection of Miner Road and Nine Mile Point's transmission line road | S | 1.5 miles |
| J | E-14 | Second set of NMP-1's metal transmission poles from Miner Road, N.W. Street | S | 1.1 miles |

## LIST OF EMERGENCY TLDs

| Sector | Station ID # | Location Description | Direction from Site | Distance from Site |
|---|---|---|---|---|
| J | E-15 | On Stone & Webster Road adjacent to transmission lines on 5th set of metal transmission poles south of NMP-1 switchyard | S | 0.7 mile |
| J | E-28 | Intersection of Route 104 and Maiden Lane Road on NM pole #159 | S | 4.0 miles |
| J | E-35 | March Road between Route 481 and Kingdom Road. Pole #18. | S | 9.5 miles |
| K | E-7 | Energy Information Center access road, 125' before 20 mph sign on west side of the road, 6' up on the first Black Walnut tree | S, S.W. | 2100' |
| K | E-23 | Met Tower on Env. Sta G Pole | S, S.W. | 2100' |
| K | E-9 | 15' high on Nine Mile Pole #90, S.E. corner of intersection of Lakeview and Lake Road (Co. Rt. 1-A) | S, S.W. | 1.0 mile |
| K | E-29 | Intersection of Middle Road and Creamery Road on pole #28 | S, S.W. | 3.4 miles |
| K | E-31 | Intersection of County Route 4 and County Route 53 on pole #49 | S, S.W. | 5.9 miles |
| K | E-34 | Benson Ave. (Co. Rt. 25) Minetto in front of Minetto Fire Barn, across from siren pole. | S, S.W. | 9.3 miles |
| L | E-8 | N.E. corner of Ontario Bible School, on access road, 8' high on pole #64, 200' from the lake | S.W. | 0.8 mile |
| L | E-32 | Off Kocher Rd. E. on Middle Rd. NiMo Pole #15. | S.W. | 4.0 miles |
| L | E-33 | Route 104 West and Fred Haynes Blvd., across from Siren Pole #104 | S.W. | 8.9 miles |
| N/A | E-21 & 22 (controls) | NMPNS Administration Building in Lead Pig | N/A | N/A |

# SURVEY TEAM COMMUNICATION FORM

Date _____ Team Number _____ Team Leader/TLD Number _____
Team Member/TLD Number _____

Assigned Radio Channel _____ Dispatch Center Phone Number _____

| TIME | MESSAGE |
|---|---|
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# ENVIRONMENTAL/EMERGENCY TLD FORM

Date _____ Team Number _____ Team Leader/TLD Number _____

Team Member/TLD Number _____

Assigned Radio Channel _____ Dispatch Center Phone Number _____

| TIME | LOCATION/SECTOR | TLD ID NUMBER | COLLECTED TLD SERIAL NUMBER | NEW TLD SERIAL NUMBER |
|---|---|---|---|---|
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## RADIOLOGICAL ENVIRONMENTAL SAMPLING PROGRAM

The following table should be used in determining environmental samples and quantity to be sampled:

| Medium Sampled | Each Sample | Analysis | Quantity/Vol. Preferred Sample Location |
|---|---|---|---|
| Air-Particulate | 27,000 ft³** 25 ft³* | Beta, gamma | Downwind from site |
| Air-Iodine | 27,000 ft³** 25 ft³* | Beta, gamma | Downwind from site |
| Water-Lake, pond Stream (Note 1) | 1 gallon | Beta, gamma Isotope | 10 downstream from site 2 upstream from site for control |
| Water-Tap (Note 2) | 1 gallon | Gamma Isotope | 2 from control 15 mi. from site 4 downwind from site |
| Soil (Note 3) | 500 ml. | Gamma Isotope | 2 from control 15 mi. from site 6 downwind from site |
| Vegetation/Grass (Note 3) | 1 kg. | Gamma Isotope | 2 from control 15 mi. from site 6 downwind from site |
| Milk (Note 4) | 1 gallon | I-131, Cs-137, Sr-90 | 2 from control 15 mi. from site*** 5-10 downwind from site*** |
| Snow | 1 ft² | Gamma Isotope | 2 from control 15 mi. from site*** 5-10 downwind from site*** |

* Downwind Survey Team Air Sample
** Normal Environmental Monitoring Program Air Sample
*** If Owner Cooperation Available

Note 1: Upstream samples should be a minimum of 5 mi. upstream of plant outfall.

Note 2: Control samples should come from least prevalent wind direction from township (municipal) water supply.

Note 3: Control samples should come from least prevalent wind direction at nearest TLD site for sample accountability. Downwind samples should be taken at/near TLD locations for sample accountability.

Note 4: Milk samples should be raw, untreated milk from dairies in least prevalent wind direction for control purposes.

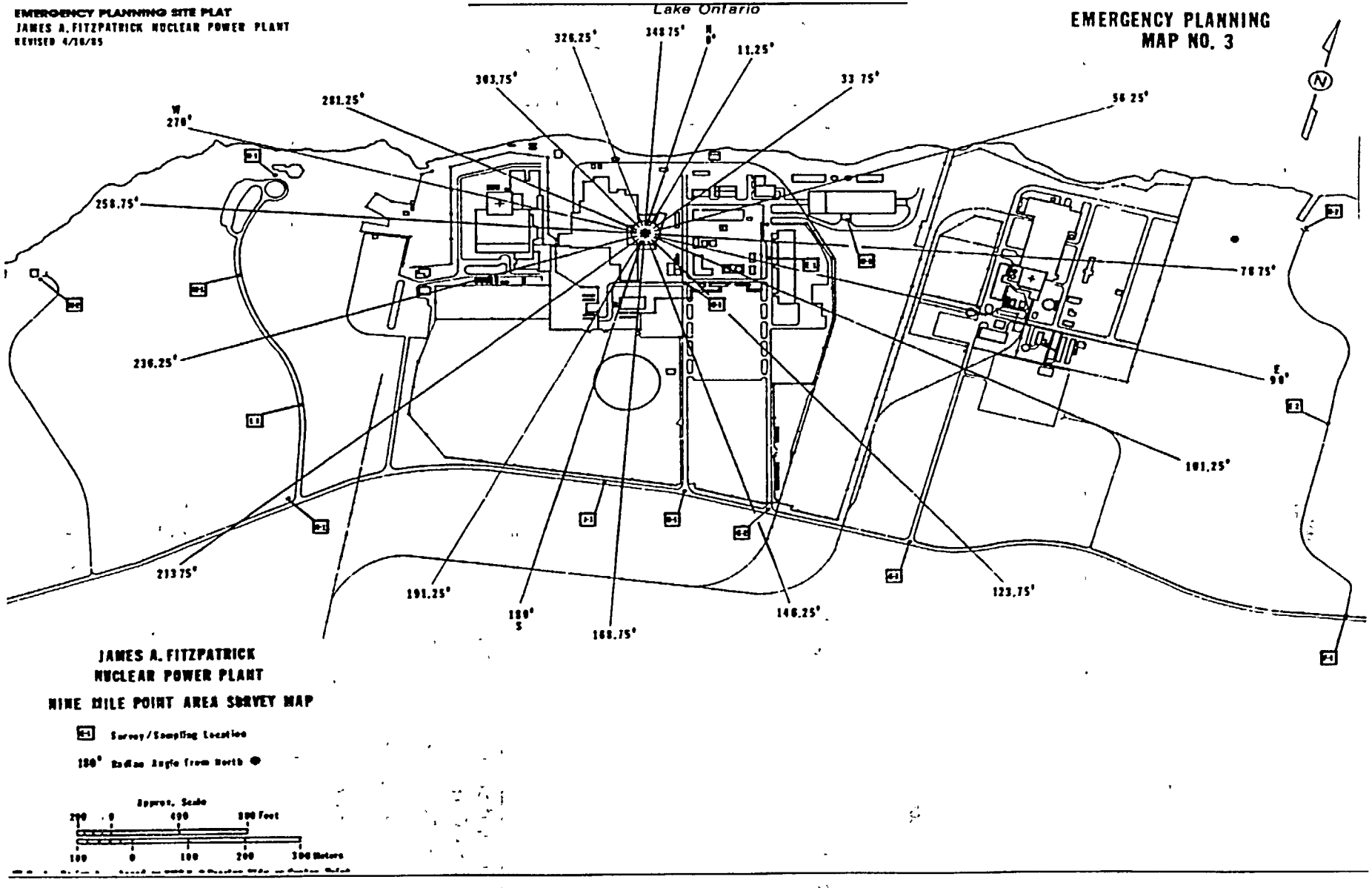
NOT ALL SAMPLES ON THIS TABLE NEED TO BE COLLECTED DURING EMERGENCY CONDITIONS, HOWEVER, A REPRESENTATIVE SAMPLE SHOULD BE TAKEN ON THOSE LISTED AS TIME PERMITS.

This program may be used for a relatively long period of time after the emergency has been terminated such that all required samples have been collected, prepared, and analyzed.

ATTACHMENT 17

Page 1 of 1

NINE MILE POINT AREA SURVEY MAP



ENTERGY NUCLEAR OPERATIONS, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# PERSONNEL ACCOUNTABILITY
**EAP-8**
**REVISION 58**

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/20/02
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

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| ********** ADMINISTRATIVE ********** | CONTROLLED COPY # 34 |

PERIODIC REVIEW DUE DATE: June 2007

REVISION SUMMARY SHEET

REV. NO.

58
- Quarterly update of the Emergency Response Organization.

57
- Changed Security Coordinator/Sergeant to Security Shift Supervisor through out the entire procedure.
- Updated the TSC Security Coordinator's extension from 6160 to 6121 in section 4.7.2 and attachment 1.

56
- Quarterly update of the Emergency Response Organization.
- Changed Security Shift Coordinator/Sergeant to Security Coordinator/Sergeant through out the procedure.

55
- Quarterly update of the Emergency Response Organization.

54
- Quarterly update of the Emergency Response Organization.

53
- Quarterly update of the Emergency Response Organization.
- In section 4.7.5 added the words "and/or Accountability Clerks".

52
- Section 4.6 and **NOTE** that follows - changed wording to conform with Security Activity Management System's computer.
- Section 4.9, - change "badges" to "computers".
- Attachment 1 number 2 - changed "badge-out rack cards" to SAMS Computer.
- Attachment 1 number 9 - deleted (check of badges) and added "the (SAMS) or" to the end of sentence.

51
- Quarterly update of the Emergency Response Organization.

TABLE OF CONTENTS

## 1.0 PURPOSE

This procedure provides the instructions necessary to account for plant personnel, visitors, and contractors.

## 2.0 REFERENCES

### 2.1 Performance References

None

### 2.2 Developmental References

2.2.1 EAP-9, SEARCH AND RESCUE OPERATIONS

2.2.2 EAP-10, PROTECTED AREA EVACUATION

2.2.3 EAP-11, SITE EVACUATION

## 3.0 INITIATING EVENTS

3.1.1 Site Area Emergency, **or**

3.1.2 General Emergency, **or**

3.1.3 Emergency Director's request, **or**

3.1.4 Completion of Protected Area Evacuation or Site Evacuation for personnel without emergency assignments.

## 4.0 PROCEDURE

4.1 A list of missing personnel shall be made available within 30 minutes via personnel accountability or other means as determined by the individual assigned to lead accountability. Personnel accountability shall be accomplished in two phases:

Phase 1 - The total number of personnel accounted for in the protected area are compared with the total number of persons indicated as being in the protected area.

Phase 2 - The names of missing persons unaccounted for in the protected area are compared to the names of persons indicated as being in the protected area.

4.2 The Emergency Director shall request the Security Shift Supervisor to initiate accountability.

4.3 The Security Shift Supervisor will enable the accountability readers in accordance with Security procedures and request (when those facilities are activated) the Communications and Records Coordinator to dispatch an accountability clerk to the Control Room, TSC and OSC to assist personnel in completing Attachment 3 and badging in the readers.

4.4 The Emergency Director shall request the Control Room to make the following announcement (twice):

| |
|---|
| ATTENTION. ATTENTION. ALL PERSONNEL IN THE PROTECTED AREA COMMENCE ACCOUNTABILITY USING BADGE READERS AND SIGN-IN SHEETS. |

4.5 The Security Shift Supervisor, who may designate security personnel to lead the accountability process if required, shall use Attachment 1 or Attachment 2 to accomplish personnel accountability.

4.6 The individual assigned to lead accountability shall compile a list of persons on site by name and badge number using either the Security Activity Management System (SAMS) computer or Security Access Computer which is a badge number only list of personnel on site.

**NOTE:** The (SAMS) computer shall be the primary means of compiling the on site list by name and badge number. The security access computer shall be used as a secondary means and is a "badge number only" list of personnel on site.

The onsite personnel list should also include visitors to the site and shall note their escort names.

Accountability for security personnel may be accomplished by contacting them individually.

4.7 Phase 1 of accountability shall be accomplished in the following manner:

**NOTE:** Manual method will be used if a computer failure occurs.

4.7.1 The individual assigned to lead accountability shall activate the "Personnel Onsite Report" which will indicate who is onsite.

As personnel badge in the accountability readers, they will be deleted from the "Unaccounted Personnel Report." This report will reflect continually who has not badged in an accountability reader.

4.7.2 Accountability clerks shall be established in the Control Room, Technical Support Center and Operational Support Center and shall contact the Emergency Security Coordinator in the Technical Support Center at extension 6121.

4.7.3 These clerks shall provide the following information to the Emergency Security Coordinator:

A. Total number of persons assembled in that area obtained from Attachment 3.

B. A copy of Attachment 3. The originals shall continue to be used for continuous accountability.

C. Fax Attachment 3 forms to EOF Staffing Coordinator (to assist in long-term staffing assessment).

4.7.4 The individual assigned to lead accountability shall compare the total number of personnel accounted for on the Attachment 3 forms to the total number onsite from the security computer. These numbers and any discrepancies shall be reported to the Emergency Director. In addition, the individual assigned to lead accountability shall request the Security Shift Supervisor or designee prepare an "unaccounted for" log from the accountability system reader output.

4.7.5 Security personnel and/or Accountability Clerks shall establish continuous accountability logs using Attachment 3 at the following locations:

A. 300 ft. elevation of Old Admin. Building near the Control Room entrance. This position shall record personnel who exit or enter via the Fan Room or Turbine building doors.

B. OSC control point near portal monitors. This position shall record personnel who exit or enter the RCA.

C. Old Admin. Building foyer. This position shall record personnel who exit or enter via the foyer.

**NOTES:**

1. Personnel traveling between the TSC, OSC and Control Room are NOT required to sign in/out on Continuous Accountability Log Sheet, Attachment 3 after the completion of initial accountability.

2. Entry and exit via doors with operable card readers do NOT require sign in on Attachment 3. In the event of a Security computer failure, entry and exit via carded doors that allow access to areas outside the Emergency Response Facilities (combined TSC, OSC and Control Room areas) shall require sign in on Attachment 3.

4.8 Phase 2 of accountability shall be accomplished in the following manner:

4.8.1 The individual assigned to lead accountability shall compare the security computer list of onsite persons against those in the Control Room, TSC and OSC and compile a list of unaccounted for individuals. (The manual method will utilize Attachment 3).

4.8.2 The individual assigned to lead accountability shall provide to the Emergency Security Coordinator a list of unaccounted badges and names from the readers, which should match the list of unaccounted individuals.

4.9 The individual assigned to lead accountability shall verify that persons on the "Unaccounted Personnel Report" lists have not left the protected area by a check of the security computers. The last known location of these persons shall be obtained from the security computer.

4.10 The individual assigned to lead accountability shall attempt to locate any persons unaccounted for by calling them on the plant page system. The page should be repeated every two minutes. If the unaccounted for personnel do not respond within 5 minutes, the following announcement shall be made twice over the P.A. system:

| |
|---|
| ATTENTION, ATTENTION: IF ANYONE KNOWS THE PRESENT LOCATION OF (name of missing individual), CALL SECURITY AT EXTENSION (specify). |

4.11 The individual assigned to lead accountability shall contact the missing individuals' supervisors or co-workers for further information. If these attempts are unsuccessful, the names of the missing persons shall be forwarded to the Emergency Director who shall immediately initiate search and rescue activities in accordance with EAP-9, SEARCH AND RESCUE OPERATIONS.

5.0 **ATTACHMENTS**

1. ACCOUNTABILITY CHECKLIST - MANUAL METHOD
2. ACCOUNTABILITY CHECKLIST - COMPUTER METHOD
3. ACCOUNTABILITY LOG

# ACCOUNTABILITY CHECKLIST - MANUAL METHOD



Initials/Time

1. _____/_____ Received notification from the Emergency Director to implement personnel accountability procedure.

2. _____/_____ Compile list of persons onsite using either the SAMS Computer or the security computer. Total number of persons onsite: _____.

PHASE 1

3. _____/_____ Contact each of the primary assembly areas and obtain a head count:

| AREA | EXTENSIONS | PERSON CONTACTED | NUMBER OF PERSONS |
|---|---|---|---|
| Control Room | 6665 | _____ | _____ |
| Technical Support Center | 6121 | _____ | _____ |
| Operational Support Center | 6833/6837 | _____ | _____ |
| Security Bldg | 6413/6416 | _____ | _____ |

Total number of persons accounted for: _____

4. _____/_____ Difference between total head count and persons onsite as indicated by security (step 3): _____.

5. _____/_____ Report totals from step 2, 3, and 4 to the Emergency Director.

PHASE 2

Initials/Time

6. _____/_____ Contact each assembly area. Using the list of persons onsite, check off each person in the assembly area.

7. _____/_____ List the names and badge numbers of persons unaccounted for:

_____

_____

_____

_____

_____

_____

8. _____/_____ Notify the Emergency Director of the names of persons unaccounted for.

9. _____/_____ Verify that persons unaccounted for have not left the site. Determine last known location using the (SAMS) or the security computer.

10. _____/_____ Call persons unaccounted for on the plant paging system (repeat announcement).

11. _____/_____ Contact supervisors, co-workers. Attempt to determine last known location of persons unaccounted for.

12. _____/_____ Advise Emergency Director of missing persons and information determined in steps 9, 11.

**RETAIN THIS FORM. IT SHALL BE TURNED IN TO THE EMERGENCY DIRECTOR.**

# ACCOUNTABILITY CHECKLIST - COMPUTER



Initials/Time

1. _____/_____ Received notification from the Emergency Director to implement personnel accountability procedure.

2. _____/_____ Security Central Alarm Station (CAS) or Secondary Alarm Station (SAS) operator to activate accountability card readers by activating the (F6) key on the security computer.

PHASE 1/2

3. _____/_____ Individual assigned to lead accountability to activate "Personnel Onsite Report."

4. _____/_____ Individual assigned to lead accountability to activate the "Unaccounted Personnel Report."

5. _____/_____ Advise the Emergency Security Coordinator in the Technical Support Center of missing person(s) unaccounted for.

6. _____/_____ Verify that person(s) unaccounted for have not left the site.

7. _____/_____ Call person(s) unaccounted for on the plant paging system.

8. _____/_____ Contact supervisors and co-workers to attempt to learn last location of the persons unaccounted for.

9. _____/_____ Advise Emergency Director of missing person(s)

# ACCOUNTABILITY LOG

DATE _____

FACILITY _____

| | NAME | Badge Number | Continuous Accountability Time/DRD Readings | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | IN | OUT | IN | OUT | IN | OUT |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
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ENTERGY NUCLEAR OPERATIONS, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# EMERGENCY ORGANIZATION STAFFING
# EAP-17
# REVISION 102

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/24/02
RESPONSIBLE PROCEDURE ~~OWNER~~

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

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| ☐ ADMINISTRATIVE | CONTROLLED COPY # 34 |

PERIODIC REVIEW DUE DATE: June 2007

REVISION SUMMARY SHEET

REV. NO.

102
- Quarterly update of the Emergency Response Organization.

101
- On attachment 2 added information that directs the Shift Manager, per AOP-43 to make plant announcement per EAP att. 15.
- Changed SAS Cell Phone from 593-4767 to 593-9539

100
- Quarterly update of the Emergency Response Organization.
- Name change for Security Coord/Serg. - Previously was Shift Coord/Sergeant in the JAF area.
- Removed reference to GMO as position was replaced by GMPO.
- In section 5.1.3 added verbiage to clarify the on-duty day of the week start.

99
- Quarterly update of the Emergency Response Organization.
- Updated Operations titles from: Non-Licensed Operator to Nuclear Plant Operator and changed Licensed Operator )SNO or NCO) to Senior Nuclear Operator.
- Added position in the TSC - TSC Support
- Added position in the JNC - RP Briefer

98
- Deleted the JAFNPP Typical E-Plan Staff Call out Matrix by position (Attachment 2) due to the reorganization of the ERO and plant on call schedule.
- Updated all of the attachments due to the deletion of the Call Out Matrix (previously Att. 2)
- Deleted the words "On Call Employees" and replaced it with "pager" in section 4.6.
- Removed section 5.0, Emergency Plan on call employees and schedules.
- In sections 5.1 1 - 5.1.7, listed steps for personnel being on call and information on the schedule, switching weeks, where a list of pager codes are found, what day of the week the duty starts, and corporate on call information.
- In section 6.1.2.C - added words to start with team 1 members.
- In section 6.1.3, reworded the instructions to all personnel assigned an E-Plan pager.
- Deleted section 6.1.4 that dealt with On Duty Individuals - section 5.1 that was also deleted.
- On E-Plan Employee Call Out, Attachment 2 and Attachment 4 - changed the "WPO Nuclear Generation Duty Officer" to "Recovery Support Group Manager." Replaced "NGDO" with "RSGM:.
- On Attachment 1 - Changed titles of Operators per AP-12.03 changes.

97
- Quarterly update of the Emergency Response Organization.

TABLE OF CONTENTS

1.0 **PURPOSE**

The purpose of this procedure is to designate the emergency organization for specific emergency classification and to describe the activation of the designated principal emergency response personnel.

**NOTE:** THIS PROCEDURE IS INTENDED ONLY FOR EMERGENCY PLAN ACTIVATION AND MAY BE ALTERED BY THE EMERGENCY PLANNING COORDINATOR FOR PURPOSES OF EMERGENCY PLAN DRILLS OR EXERCISES.

2.0 **REFERENCES**

2.1 **Performance References**

2.1.1 EAP-43, EMERGENCY FACILITIES LONG TERM STAFFING

2.1.2 SAP-20, EMERGENCY PLAN ASSIGNMENTS

2.2 **Developmental References**

2.2.1 James A. FitzPatrick Nuclear Power Plant Emergency Plan, SECTION 5, ORGANIZATION

2.2.2 IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS

2.2.3 EAP-22, OPERATION AND USE OF RADIO PAGING DEVICE

2.2.4 SAP-20, EMERGENCY PLAN ASSIGNMENTS

3.0 **INITIATING EVENTS**

An emergency has been declared in accordance with IAP-2, CLASSIFICATION OF EMERGENCY CONDITIONS

3.1 A call-out test is being conducted as directed by the Emergency Planning Coordinator (EPC) or designee.

4.0 **RESPONSIBILITIES**

4.1 **Vice President - Operations** (VPO), General Manager - Plant Operations (GMPO), Director - Safety Assurance (DSA).

4.1.1 Either the VPO, GMPO, or the DSA will be in the general area (within approximately 60 minutes travel time to the plant) unless, and as approved by the VPO, special circumstances dictate that they will be absent. Their location is known via the weekly staff schedule, or other means.

4.1.2 The VPO, GMPO, and the DSA shall make their schedules available to the Operations Manager via the weekly staff schedule, or other means as appropriate.

4.2 **Shift Manager**

4.2.1 During an emergency, the Emergency Director is responsible for the direction of all emergency actions at the James A. FitzPatrick Nuclear Power Plant. During normal hours, sufficient supervisory and support personnel are available to respond to an emergency condition; during off-hours, this support is diminished as shown in Attachment 1. When the Shift Manager/Emergency Director determines that additional personnel are necessary to respond to an onsite emergency, he will direct Security to initiate a recall of personnel in accordance with this procedure and EAP-1.1, section 4.2.1. Pagers should be activated for both normal working hours and off hour emergencies. It will be the responsibility of the Security Force to make the necessary telephone calls to initiate this site recall. Other personnel may be directed to perform this function if a Security event prevents Security from making the recall.

4.3 **Human Resources Manager**

4.3.1 The JAFNPP Human Resources Manager is responsible to maintain an up-to-date list of all plant employees, their titles, and home phone numbers. Each calendar year quarter, the Human Resources Manager shall provide this listing to the Emergency Planning Coordinator (EPC).

4.3.2 The JAFNPP Human Resources Manager is responsible to ensure Oswego County I.D. cards for terminated or transferred employees are returned to the EPC after the personnel action.

4.4 **Emergency Planning Coordinator**

4.4.1 The Emergency Planning Coordinator shall quarterly update Attachment 5.

4.4.2 The Emergency Planning Coordinator shall issue an Emergency Plan Employee Call-Out Form (Attachment 2). This form will be filed at the SAS console.

4.4.3 The Emergency Planning Coordinator, or designee, shall, at least quarterly, update and distribute the Emergency Plan On-call Employee Call-out Schedule.

4.5 **Security**

It is the responsibility of the Secondary Alarm Station (SAS) security officer to conduct the notifications to Emergency Plan On-Call Employees if so directed by the Shift Manager or Emergency Director. The security officer shall use the appropriate pager codes for emergency call-out for Attachment 2 (located at the SAS console). Any information needed regarding plant status shall be obtained from the Shift Manager. The call-out system Community Alert Network, "CAN", shall also be used as appropriate.

4.6 **Personnel Assigned an Emergency Plan Pager**

It is the responsibility of each individual assigned an Emergency Plan pager to perform their duties in accordance with this procedure. This includes maintaining an operable radio pager within notification range. If the employee is "on duty" (on-call) he/she must remain within approximately one hour of their assigned facility and be fit for duty in accordance with plant/JAF procedures.

5.0 **EMERGENCY PLAN ON-CALL EMPLOYEES AND SCHEDULES**

5.1 A roster and schedule of on-call personnel is initiated and published by the Emergency Planning Coordinator on at least a quarterly basis.

5.1.1 Individuals filling positions listed in the on-call roster are issued Emergency Plan pagers and are scheduled for "on-duty" periods.

5.1.2 It is the responsibility of each individual assigned an on-call duty to be aware of the on-call schedule, their "on-duty" status and be aware of the pager codes.

5.1.3 An on-duty week shall normally run from 0700 Monday until 0700 the following Monday. If a holiday falls on Monday, the on-duty period ends at 0700 the next work day following the holiday.

5.1.4 Pagers shall be kept within hearing/notification range of "on-duty" personnel at all times.

5.1.5 If an individual wishes to switch a duty period with another equally ERO qualified person, it is the individual's responsibility to ensure adequate coverage is maintained. No official notifications are necessary.

5.1.6 Pager codes as listed in Attachment 3 are issued to each individual assigned a pager. The codes indicate if it is a real event, a drill or a pager/on-call test. (All individuals issued Emergency Plan pagers are expected to respond to the pager codes).

5.1.7 The on-call schedule for the WPO Recovery Support Group Manager (RSGM) is maintained by the Corporate Emergency Preparedness Group.

## 6.0 PROCEDURE

### 6.1 Activation of the Emergency Plan

6.1.1 Shift Manager/Emergency Director

A. The Control Room will activate pagers and CAN during times of a declared Security event.

B. The Shift Manager or designee shall instruct the SAS Security Officer (at extension 3456) to initiate the call out of Emergency Response Organization personnel in accordance with this procedure and EAP-1.1, Section 4.2.1.

6.1.2 Secondary Alarm Station (SAS) Security Officer (or designated Security Officer)

**NOTE:** Activation of BOTH pagers and CAN (if needed) should be performed concurrently to ensure timely ERO notification.

A. Notification of Emergency Plan On-Call Employees via pagers.

**NOTE:** Pager and/or CAN notifications NOT performed in SAS will be performed in accordance with Attachment 4from the Control Room.

1. The SAS Security Officer, upon being instructed to do so by the Shift Manager/Emergency Director, shall notify all the Emergency Plan On-Call Employees. This shall be accomplished by using the Emergency Plan Employee Call-Out Form (Attachment 2). Activate the paging system a minimum of three (3) times. Separate pages by an interval of 2 minutes, or when the page is received in SAS.

B. Community Alert Network (CAN)

**NOTE:** Activation of BOTH pagers and CAN (if needed) should be performed concurrently to ensure timely ERO notification.

Activate "CAN" during off-hours when directed to do so by the Shift Manager and/or Emergency Director.

**NOTE:** The Password and Call Back verification Phone Numbers are the same number.

1. Notify "CAN" at 800-552-4226. The "CAN" operator will request your name and affiliation - Entergy - James A. FitzPatrick NPP (JAF Security).

2. The "CAN" operator will ask for a Password and a call back verification number. Provide "CAN" operator with one of the following phone numbers:

   a. SAS Phone (315-349-6420) or

   b. SAS Phone (315-349-6415) or

   c. SAS Cellular Phone (315-593-9539) or

   d. Security Sergeant (315-349-6422) or

   e. Control Room Phone, near RECS line, (315-349-6261)

   (The "CAN" operator will then hang up and call you back for verification of the facilities and messages. If cellular phone number is given, ensure cellular phone is turned on.)

3. On the call back from "CAN," provide the following information:

   a. The "CAN" operator will request which call-out list(s) to call. Answer "Call out the (depending on which facilities are requested to be activated).

   **NOTE:** The JAF list includes Security Personnel.

   1) "Group 1 call-out list" (This list includes CR/TSC/OSC/JAF); **or**

   2) "Group 2 call-out list" (This list includes CR/TSC/OSC/JAF and EOF/JNC); **or**

   3) Individually Selected: "CR TSC OSC EOF JNC JAF call-out list(s)"

b. Instruct the "CAN" operator to activate:

1) Message 1 for actual emergencies

**OR**

2) Message 2 for drills

**OR**

3) Message 3 for call-out TESTS

c. The CAN operator will ask if you want to be notified when the activation is complete or if a problem occurs during activation, ANSWER "yes".

d. Provide the CAN operator with the current local time when requested.

4. The backup phone number to call "CAN" is 1-877-786-8478. The secondary backup number is (800) 992-2331. This is an answering service and is to be used only in the event of a malfunction of the computerized prompt/recording. Tell the answering service your name/affiliation and a call back number. This person will contact the "CAN" operations staff who will return your call to get the detailed information.

5. Notify the Shift Manager/ED when "CAN" has been activated.

6. CAN notifications **NOT** performed in **SAS** will be performed in accordance with Attachment 4.

C. Manual Call-Out/Verification

**IF** CAN was activated, **THEN** verify CAN activation was successful by calling ten (10) individuals on Attachment 5 and verify that CAN activation was successful, OR by receiving CAN call at SAS.

**IF** CAN activation was NOT successful, **THEN** call all listed team members, starting with Team 1 and read the appropriate CAN message to each individual. (Use additional personnel to expedite call-out if necessary.)

6.1.3 Individuals Assigned an E-Plan Pager

A. ALL individuals assigned an E-plan pager whether assigned an on-call duty or not shall:

1. Maintain an operable radio pager and ensure that he/she can be notified at all times (ie. hear the pager) while both onsite and offsite.

2. Respond to random pager/on-call tests at the time the test is conducted as indicated by the pager code, unless a response has already been made to the "CAN" system.

B. All on-call individuals, in addition to 6.1.3 A, shall:

1. Be aware of their "on-duty" status and be aware of the pager codes.

2. While on-duty, remain fit for duty and be within approximately one hour from their assigned emergency response facility.

3. While on-duty, respond to the appropriate emergency response facility as soon as possible (approximately one hour), and/or follow directions given via coded message on the pager and/or CAN system.

6.1.4 Emergency Director

A. The Emergency Director should establish that the emergency organization staffing applicable to the level of emergency is in place (ref. SAP-20 for facility organizational charts or adjust according to need).

B. As soon as practical after declaring an emergency condition and activating the Emergency Response Organization, the Emergency Director shall attempt to determine if any additional staff is required to maintain the emergency response.

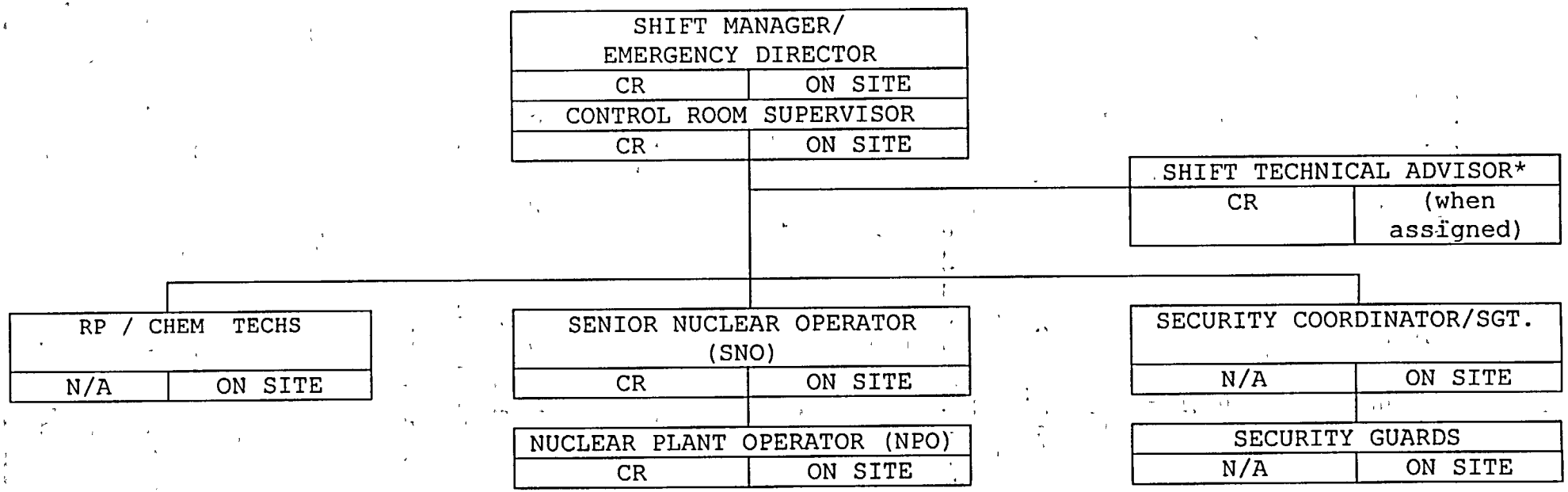
C. The Emergency Director may delegate the staffing responsibilities to a Staffing Coordinator. Refer to EAP-43, EMERGENCY FACILITIES LONG TERM STAFFING

## 7.0 ATTACHMENTS

1. JAFNPP EMERGENCY STAFFING ON SHIFT RESPONSE ORGANIZATION
2. EMERGENCY PLAN EMPLOYEE CALL-OUT
3. "CAN" MESSAGES AND PAGER ACTIVATION CODES
4. CONTROL ROOM: PAGER ACTIVATION/COMMUNITY ALERT NETWORK (CAN) EMERGENCY CALL-OUT DURING SECURITY EVENT
5. EMERGENCY ORGANIZATION ASSIGNMENTS

# JAFNPP EMERGENCY STAFFING ON SHIFT RESPONSE ORGANIZATION






CODE KEY

| | |
|---|---|
| | |

←TITLE

↑ AVAILABILITY ↑

OPERATIONAL LOCATION

COMMAND CONTROL _____

OPERATION KEY CODE

CR = CONTROL ROOM
N/A = NOT APPLICABLE

* S.T.A. may not be present under certain conditions, or role may be fulfilled by SM or CRS

**A. INITIATING INFORMATION:**

Type of event: Actual Drill/Exercise Pager/On-call Test

Emergency Classification: None NUE Alert SAE GE Declared at:_____

**If** directed by Shift Manager (for AOP-43 control room evacuation) have SSS make plant announcement and offsite notifications per EAP-1.1 attachment 15.

Facility(s) To Activate: Group 1 call-out list **OR**

Group 2 call-out list **OR**

Individually Selected: CR TSC OSC EOF JNC JAF

Activate Pagers?: Yes No

Activate CAN?: Yes No

Three Digit Event Code: _____ (From Shift Manager/ED)

Requested by: SM ED Other _____ (name) _____ / _____ (Date / Time)

**B. JAF Pager Activation:**

**NOTE:** Activation of BOTH pagers and CAN (if needed) should be performed concurrently to ensure timely ERO notification.

1. Pager Activation START Date/Time: _____ / _____
2. Obtain "Pager" number from Lock Box/Envelope and record on line 6.
3. Obtain "Password" from Lock Box/Envelope and record on line 7.
4. Record Three Digit Event Code from section A above on line 8.
5. Dial 1-800-836-2337
6. Enter **"Pager"** number _____ when prompted ("Please enter the pager number").
7. Enter **"Password"** _____ when prompted ("Please enter your caller password").
8. Wait for tones; enter **"Three Digit Event Code"** _____ _____ _____
9. Hang up the phone.
10. Repeat above steps 5-9 two (2) more times - Separate page intervals by 2 minutes **OR** when pager in SAS activates. Call CAN/RSGM between pages as applicable.

**C. Notify the Support Group Manager (RSGM):**

Activate the RSGM pager as follows:

1. From a plant switched phone dial 7243 (Backup from any phone 1-800-436-2732)
2. When prompted, "Please enter the pager number", enter 718-4040.
3. Enter the number you wish to be called back on, include area code (eg. 315-3496xxx) and hang-up.
4. Report plant status to RSGM when call is returned.

**D. Information:**

Time **ERO** Page's (3) and RSGM Pager Activation Completed: _____ (inform Shift Manager/ED).

Time RSGM returned call: _____

Pager Activation Performed by: _____ Print/Sign

**E. IF CAN is to be activated, THEN continue on the reverse side of this sheet.**

**F. CAN Activation:**

**NOTE:** Activation of BOTH pagers and CAN (if needed) should be performed concurrently to ensure timely ERO notification.

1. Select (Circle) the following information provided by the Shift Manager/ED/Other as found in section "A" on the reverse side of this form:
   - Facilities required for activation (step 6) **AND**
   - Message to be used (step 7)
2. Call Community Alert Network (CAN): **1-800-552-4226** (Backup number 1-877-786-8478)
3. Tell the CAN operator Your Name **AND** Where Your Calling from: **Entergy - James A. FitzPatrick Nuclear Power Plant - Security**
4. When prompted for the password and call back verification number by the CAN operator, use one of the following:

   **NOTE: THE PASSWORD AND CALL-BACK NUMBERS ARE THE SAME NUMBER**

   | | | | |
   |---|---|---|---|
   | SAS Phone | 315-349-6420 | SAS Cell Phone | 315-593-9539 |
   | SAS Phone | 315-349-6415 | Sec. Sergeant | 315-349-6422 |

5. The CAN Operator will then hang-up and call you back at the number you provided.
6. On call back from "CAN" provide the call-out lists for the facilities the Shift Manager directed to be activated:
   - Group 1 call-out list **OR**
   - Group 2 call-out list **OR**
   - Individually Selected: CR TSC OSC EOF JNC JAF (JAF is the Security personnel)
7. Instruct the CAN operator to activate:
   - Message one(1) for actual emergencies, **OR**
   - Message two (2) for drills, **OR**
   - Message three (3) for call-out TESTS
8. The CAN operator will ask if you want to be notified when the call-out has been completed, or if a problem occurs preventing CAN activation - Answer **"YES"**.
9. The CAN operator will ask for the current local time: _____ (Record time)
10. Notify the Shift Manager when you have completed the CAN call.
11. Notify the Shift Manager when the CAN operator notifies you that the CAN activation has completed.

**G. Manual Calls/Verification:**

1. If CAN was activated, verify successful activation by calling ten (10) individuals, at random, listed on Attachment 5, or by receiving CAN call at SAS.
2. If CAN activation was not successful, call all individuals on Attachment 5 and read the appropriate CAN message (Attachment 3). (Call Team 1 members then Team 2 then Team 3 - use additional people if available).

**H. Information:**

Time CAN Activation Completed: _____ (inform Shift Manager/ED)

Call-Out Verification: Time complete _____ SAT UN-SAT (Circle one)

CAN Activation Performed by: _____
Print/Sign

# "CAN" MESSAGES AND PAGER ACTIVATION CODES



MESSAGE #1 (Use to activate a facility during an Actual Event)

ACTIVATION

This is an emergency message from the James A. FitzPatrick Nuclear Power Plant. This is an emergency message from the James A. FitzPatrick Nuclear Power Plant. An emergency has been declared at the plant! An emergency has been declared at the plant! Report to your assigned emergency facility. Fitness For Duty requirements apply. Report to your assigned emergency facility. Fitness For Duty requirements apply.

MESSAGE #2 (Use to activate a facility during a drill)

DRILL

This is a drill message from the James A. FitzPatrick Nuclear Power Plant. This is a drill! This is a drill! An emergency has been declared at the plant. Report to your assigned emergency facility. Fitness For Duty requirements apply. An emergency has been declared at the plant. Report to your assigned emergency facility. Fitness For Duty requirements apply. This is a drill. This is a drill.

MESSAGE #3 (Use to initiate a call-out test)

TEST

This is a message from the JAF Nuclear Power Plant. This is a drill! This is a drill! This message applies to personnel assigned a JAF pager. This message applies to personnel assigned a JAF pager. This is a drill! This is a drill!

## PAGER ACTIVATION CODES

| FIRST DIGIT<br>INFORMATION | SECOND DIGIT<br>CLASSIFICATION | THIRD DIGIT<br>FACILITY ACTIVATED |
|---|---|---|
| 1 = Actual Event | 1 = NUE | 1 = Report to CR/OSC/TSC |
| 2 = Drill or Exercise | 2 = Alert | 2 = Report to CR/OSC/TSC/EOF/JNC |
| 9 = Pager/On-call test only | 3 = SAE | 3 = On duty only report to CR/OSC/TSC/EOF/JNC |
| | 4 = GE | 7 = Personnel assigned a pager call CAN 800- 205-5175 (respond to CAN prompts as directed) |
| | 9 = None | 8 = All personnel report to EOF for further instructions. |
| | | 9 = No response required |

EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3
UPDATE LIST

CONTROLLED COPY # 34

Date of Issue: August 29, 2002

| Procedure Number | Procedure Title | Revision Number | Date of Last Review | Use of Procedure |
|---|---|---|---|---|
| N/A | TABLE OF CONTENTS | REV. 23 | 12/98 | N/A |
| EAP-26 | PLANT DATA ACQUISITION SYSTEM ACCESS | REV. 11 | 02/98 | Informational |
| EAP-27 | ESTIMATION OF POPULATION DOSE WITHIN 10 MILE EMERGENCY PLANNING ZONE | REV. 10 | 06/02 | Informational |
| EAP-28 | EMERGENCY RESPONSE DATA SYSTEM (ERDS) ACTIVATION | REV. 6 | 07/00 | Reference |
| EAP-29 | EOF VENTILATION ISOLATION DURING AN EMERGENCY | REV. 5 | 02/98 | Informational |
| EAP-30 | EMERGENCY TERMINATION AND TRANSITION TO RECOVERY* | REV. 0 | 12/98 | Informational |
| EAP-31 | RECOVERY MANAGER* | REV. 1 | 07/01 | Informational |
| EAP-32 | RECOVERY SUPPORT GROUP* | REV. 8 | 02/02 | Informational |
| EAP-33 | DEVELOPMENT OF A RECOVERY ACTION PLAN* | REV. 0 | 12/98 | Informational |
| EAP-34 | ACCEPTANCE OF ENVIRONMENTAL SAMPLES AT THE EOF/EL DURING AN EMERGENCY | REV. 3 | 02/98 | Informational |
| EAP-35 | EOF TLD ISSUANCE DURING AN EMERGENCY | REV. 6 | 02/98 | Informational |
| EAP-36 | ENVIRONMENTAL LABORATORY USE DURING AN EMERGENCY | REV. 4 | 02/98 | Informational |
| EAP-37 | SECURITY OF THE EOF AND EL DURING DRILLS, EXERCISES AND ACTUAL EVENTS | REV. 6 | 07/01 | Informational |
| EAP-39 | DELETED (02/95) | | | |
| EAP-40 | DELETED (02/98) | | | |
| EAP-41 | DELETED (12/85) | | | |
| EAP-42 | OBTAINING METEOROLOGICAL DATA | REV. 18 | 08/02 | Informational |
| EAP-43 | EMERGENCY FACILITIES LONG TERM STAFFING | REV. 57 | 08/02 | Informational |
| EAP-44 | CORE DAMAGE ESTIMATION | REV. 4 | 06/02 | Informational |
| EAP-45 | EMERGENCY RESPONSE DATA SYSTEM (ERDS CONFIGURATION CONTROL PROGRAM) | REV. 6 | 07/00 | Informational |
| SAP-1 | MAINTAINING EMERGENCY PREPAREDNESS | REV. 16 | 04/02 | Informational |
| SAP-2 | EMERGENCY EQUIPMENT INVENTORY | REV. 33 | 10/01 | Reference |
| SAP-3 | EMERGENCY COMMUNICATIONS TESTING | REV. 72 | 08/02 | Reference |

EMERGENCY PLAN IMPLEMENTING PROCEDURES/VOLUME 3
UPDATE LIST

Date of Issue: August 29, 2002

| Procedure Number | Procedure Title | Revision Number | Date of Last Review | Use of Procedure |
|---|---|---|---|---|
| SAP-4 | NYS/OSWEGO COUNTY EMERGENCY PREPAREDNESS PHOTO IDENTIFICATION CARDS | REV. 9 | 06/02 | Informational |
| SAP-5 | DELETED (3/98) | | | |
| SAP-6 | DRILL/EXERCISE CONDUCT | REV. 17 | 04/02 | Informational |
| SAP-7 | MONTHLY SURVEILLANCE PROCEDURE FOR ON-CALL EMPLOYEES | REV. 36 | 08/02 | Informational |
| SAP-8 | PROMPT NOTIFICATION SYSTEM FAILURE/SIREN SYSTEM FALSE ACTIVATION | REV. 12 | 10/01 | Informational |
| SAP-9 | DELETED (02/94) | | | |
| SAP-10 | METEOROLOGICAL MONITORING SYSTEM SURVEILLANCE | REV. 11 | 03/02 | Informational |
| SAP-11 | EOF DOCUMENT CONTROL | REV. 11 | 06/02 | Informational |
| SAP-13 | EOF SECURITY AND FIRE ALARM SYSTEMS DURING NORMAL OPERATIONS | REV. 4 | 06/02 | Informational |
| SAP-14 | DELETED (02/95) | | | |
| SAP-15 | DELETED (11/92) | | | |
| SAP-16 | UTILIZING EPIC IDT TERMINALS FROM DESTINY SYSTEM | REV. 4 | 06/02 | Informational |
| SAP-17 | EMERGENCY RESPONSE DATA SYSTEM (ERDS) QUARTERLY TESTING | REV. 7 | 07/00 | Continuous |
| SAP-19 | SEVERE WEATHER | REV. 4 | 01/01 | Informational |
| SAP-20 | EMERGENCY PLAN ASSIGNMENTS | REV. 21 | 08/02 | Informational |
| SAP-21 | DELETED (04/01) | | | |
| SAP-22 | EMERGENCY PLANNING PROGRAM SELF ASSESSMENT | REV. 1 | 10/98 | Informational |

ENTERGY NUCLEAR OPERATIONS, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# EMERGENCY FACILITIES LONG TERM STAFFING
# EAP-43
# REVISION 57

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/26/02
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☒ LIMITED REVISION ☐

| | |
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| ********** ADMINISTRATIVE ********** | CONTROLLED COPY # 34 |

PERIODIC REVIEW DUE DATE: August 2007

REVISION SUMMARY SHEET

REV. NO.

57
- Quarterly Update of the Emergency Response Organization

56
- Quarterly Update of the Emergency Response Organization
- Changed title of Shift Technical Advisor to Field Support Supervisor/STA to align with Entergy's work alignment.
- Changed Security Shift Coordinator/Sergeant to Security Coordinator/Sergeant.

55
- Quarterly Update of the Emergency Response Organization
- Updated Operations titles from: Non-Licensed Operator to Nuclear Plant Operator and changed Licensed Operator )SNO or NCO) to Senior Nuclear Operator.
- Added position in the TSC - TSC Support
- Added position in the JNC - RP Briefer

54
- Quarterly update of the Emergency Response Organization.

53
- Quarterly update of the Emergency Response Organization.
- Added position within the JNC to read Communications/Writers.

TABLE OF CONTENTS

## 1.0 PURPOSE

This procedure provides instructions to provide long term staffing for JAFNPP Emergency Facilities

## 2.0 REFERENCES

### 2.1 Performance References

2.1.1 AP-11.03, CONTROL OF OVERTIME

### 2.2 Developmental References

2.2.1 Section 5, JAF EMERGENCY PLAN

2.2.2 EAP-17, EMERGENCY ORGANIZATION STAFFING

## 3.0 INITIATING EVENTS

All Emergency Facilities have been activated.

## 4.0 PROCEDURE

### 4.1 Responsibility

It is the responsibility of the Staffing Coordinator to establish long term staffing for all the JAFNPP Emergency Facilities (C.R., O.S.C., T.S.C., E.O.F., Security and J.N.C.). The Staffing Coordinator shall fill positions in accordance with Attachment 1 developing a two shift rotation of qualified employees as a minimum and three shifts whenever possible.

**NOTE:** Personnel who are designated as "in training" for a position are considered to be qualified when all training requirements for that position are completed.

4.2 The Staffing Coordinator shall complete Attachment 1, Emergency Organization Assignments, using a copy of Attachment 3 of EAP-8 that has been completed at JAF for accountability, as a reference.

4.3 The staffing Coordinator shall ensure provision of AP-11.03, CONTROL OF OVERTIME, are considered when making staffing assignments

ENTERGY NUCLEAR OPERATIONS, INC.
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

# MONTHLY SURVEILLANCE PROCEDURE FOR ON-CALL EMPLOYEES
# SAP-7
# REVISION 36

REVIEWED BY: PLANT OPERATING REVIEW COMMITTEE

MEETING NO. N/A DATE: N/A

APPROVED BY: _____ DATE: 8/27/02
RESPONSIBLE PROCEDURE OWNER

EFFECTIVE DATE: August 29, 2002

FIRST ISSUE ☐ FULL REVISION ☐ LIMITED REVISION ☒

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PERIODIC REVIEW DUE DATE: OCTOBER 2005

REVISION SUMMARY SHEET

REV. NO.

36
- Step 4.8, added wording to allow exception to the one hour requirement by the EPC

35
- Deleted step 4.3.
- Add steps 4.8 and 4.9 to include criteria for test acceptance criteria and documentation.
- Corrected step 4.6 to remove "Badge Number (4 digits)" and insert "Phone Number (7 digits)".
- Changed step 4.5 to correct "Pager" to "Pagers".
- Changed step 4.7 - Reworded for clarity second sentence.
- Renumbered remaining steps to reflect changes.
- Removed GM - Support Services approval line from the cover sheet per AP-02.04.

34
- Added "at least once per month" to pager operability testing.

33
- Replaced T. Carroll with P. Chaldu on Attachment 2 - change of personnel.

32
- Reformat per AP-02.01, Rev. 5.

31
- Replaced GM - Maintenance with GM - Operations; replaced Plant Manager with Site Executive Officer - per WJC-97-010.

TABLE OF CONTENTS

1.0 **PURPOSE**

The purpose of this procedure is to provide a means of testing the JAFNPP Emergency Plan On-Call Employee capabilities.

2.0 **REFERENCES**

2.1 **Performance References**

NONE

2.2 **Developmental References**

2.2.1 EAP-17, EMERGENCY ORGANIZATION STAFFING

3.0 **INITIATING EVENTS**

NONE

4.0 **PROCEDURE**

4.1 Emergency Plan On-Call Employee Schedules shall be developed by the Emergency Planning Coordinator. The Corporate Emergency Planning Group will develop the Nuclear Generation Duty Officer schedule.

4.2 The Emergency Plan On-Call Employee Schedule consists of positions listed in EAP-17.

4.3 Periodically (at least quarterly) a pager test of the on duty section will be initiated by the EPC.

4.4 The EPC or designee shall give the Community Alert Network (CAN) operator the following:

A. Name of individual authorizing test

B. PASSWORD

C. Time test is to be conducted

4.5 CAN will activate pagers and enter proper pager codes (Numerical Message).

4.6 On duty section only shall call 1-800-205-5175 and follow prompts. The system will ask for phone number (7 digits) and travel time to your emergency response facility in minutes (2 digits).

4.7 CAN will keep incoming lines open for 1 hour. CAN will fax the results of the test to Emergency Planning Coordinator for evaluation. The fax and resolution of any problems shall be retained by the EPC.

4.8 An acceptable test is when at least one individual is available to respond for each ERO position listed in the Staff Call Out Matrix of EAP-17 (EMERGENCY ORGANIZATION STAFFING*). The individual is considered available when, after pager activation, the individual can report to their assigned facility within one hour. Demonstration of this will be through calling of the 1-800 call-back line or other means if the call-back number is not working. Other means include contacting Emergency Planning at the time of the test, or the following day. Exceptions to the one hour response will be permitted for JNC staff at the discretion of the EPC.

4.9 Emergency Planning shall document the results of the off-hours pager tests by producing a memo to file. The document shall include, as a minimum, the date and time of the test, names of on-call individuals who did not respond, reasons for not responding, indication of any DER's written and statement of test acceptability.

4.10 Pager operability test should be initiated by Emergency Planning at 1130 hrs on Fridays, at least once per month.

5.0 **ATTACHMENTS**

None