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Operating Company, Inc.**
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Energy to Serve Your World™

FNP-045-NRC-DC

September 12, 2000

DIRECTOR, OFFICE OF NRC
ATT: DOCUMENT CONTROL DESK
C/O JIM MCKNIGHT
US NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555

DEAR SIR,

ATTACHED YOU WILL FIND THE NEW REVISION TO THE PROCEDURE LISTED BELOW.

IF YOU HAVE QUESTIONS PLEASE CALL ME AT 334-899-5156 EXTENSION 3439.

FNP-0-EIP-5.0 REVISION 10 (1 COPY)
FNP-0-EIP-7.0 REVISION 12 (1 COPY)
FNP-0-EIP-14.0 REVISION 15 (1 COPY)
FNP-0-EIP-9.0 REVISION 46 (1 COPY)

SINCERELY,

A handwritten signature in black ink that reads "Donnie Hardy". The signature is written in a cursive style and is positioned above a horizontal line.

DONNIE HARDY

DOCUMENT CONTROL SUPERVISOR

CC: FILE
A:LETTERS
RTYPE: A4.54

A045

FARLEY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE 9.0

FNP-0-EIP-9.0

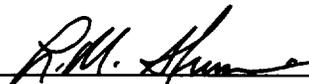
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EMERGENCY CLASSIFICATION AND ACTIONS

PROCEDURE USAGE REQUIREMENTS PER FNP-0-AP-6	SECTIONS
Continuous Use	
Reference Use	ALL
Information Use	

Approved:



 Nuclear Plant General Manager

Date Issued 9-7-00

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LIST OF EFFECTIVE PAGES

PAGE NO.	REVISION NO.										
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LOEP iii	38	X	X	X	X	X					
TOC iv		X	X	X	X	X					
TOC v		X	X	X	X	X					
1	36	X	X	X	X	X					
2	36	X	X	X	X	X					
3	36	X	X	X	X	X					
4	36	X	X	X	X	X					
5	36	X	X	X	X	X					
6	36	X	X	X	X	X					
7	37	DEL		X	X	X					
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PG.3	38	X	X	X	X	X					
PG.4	38	X	X	X	X	X					
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PG.6	38	X	X	X	X	X					
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GUIDELINE 2:											
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PG.6	39	X	X	X	X	X					
PG.7	35	X	X	X	X	X					
PG.8	38	X	X	X	X	X					
PG.9	38	X	X	X	X	X					
PG.10	36	X	X	X	X	X					
PG.11	36	DEL				X					
GUIDELINE 3:											
PG.1	35	X	X	X	X	X					
PG.2	41	X	X	X	X	X					
PG.3	38	X	X	X	X	X					
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PG.5	38	X	X	X	X	X					
PG.6	35	X	X	X	X	X					
PG.7	35	X	X	X	X	X					
PG.8	38	X	X	X	X	X					
PG.9	38	X	X	X	X	X					
PG.10	35	X	X	X	X	X					
PG.11	35	DEL	X	X	X	X					
GUIDELINE 4:											
PG.1	41	X	X	X	X	X					
PG.2	36	X	X	X	X	X					
PG.3	41	X	X	X	X	X					
PG.4	35	X	X	X	X	X					
PG.5	36	X	X	X	X	X					
PG.6	38	X	X	X	X	X					
PG.7	38	X	X	X	X	X					
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EMERGENCY CLASSIFICATION AND ACTIONS

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EMERGENCY CLASSIFICATION AND ACTIONS

1.0 Purpose

The purpose of this procedure is to provide a method for rapid projection of estimated offsite radiation exposures as a result of a release of radioactive material, to provide the basis for classifying emergencies based on plant conditions and automatic dose calculations, to provide guidance for determining protective action recommendations, to provide guidelines for actions, and for notification guidance.

2.0 References

See Table 1.

3.0 General:

3.1 This procedure provides criteria for the classification of an emergency based on plant status and radiological hazards (i.e., direct radiation and inhalation hazards which may result from the passage of a cloud of radioactive material released from the plant).

3.2 Assessment of radioactive liquid releases will be made using the offsite Dose Calculation Manual.

3.3 Release time is defined as follows:

3.3.1 EDCM Calculations: The period of time from the most recent projection to the estimated time of release termination.

3.3.2 ODCM Calculations: The period of the release in which Technical Specification limits are exceeded.

3.4 Definitions:

TOTAL EFFECTIVE DOSE EQUIVALENT (TEDE)

means the sum of the deep dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).

DEEP DOSE EQUIVALENT (DDE)

which applies to external whole body exposure, is the dose equivalent at a tissue depth of 1 cm.

COMMITTED DOSE EQUIVALENT (CDE)

means the dose equivalent to organs or tissues of reference that will be received from an intake of radioactive material by an individual during the 50-year period following the intake.

COMMITTED EFFECTIVE DOSE EQUIVALENT (CEDE)

is the sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to these organs of tissues.

- 3.5 Protective action recommendation guidance is provided to aid in establishing protective action recommendations. The Emergency Director will exercise his own judgment in recommending protective actions to offsite agencies.
- 3.6 If steam generator water level falls below the break point during a steam generator tube rupture, off-site dose rate may be significantly higher (up to 10 times) due to volatilization of iodine.
- 3.7 Initial Notification or upgrade should be made from the Control Room or TSC. It is not necessary to transfer the information to the EOF to make the upgrade notification. The EOF, if staffed, should be informed as soon as possible.
- 3.8 Communication guidance for making the initial verbal notification is on the Emergency Initial Notification Form, in the appropriate guideline.
- 3.9 Guidance for when the emergency response facilities should be manned and the level of manning required is included in Table 2. It is recommended that the TSC and the EOF be fully staffed initially at the ALERT level. If the full staff is not required, individuals can be released on a case-by-case basis.
- 3.10 At the NOUE level or below, it may be desirable to partially staff the TSC in order to relieve the Control Room staff of offsite communications and notifications. FNP-0-EIP-6.0 provides a listing of positions that should be considered for partial TSC activation.
- 3.11 EIP-6, Figure 3, provides a list of information that should be considered when updating plant staff over the public address system.

4.0 Classify emergency based on the most severe plant conditions OR projected off-site dose/dose rate conditions, WHICHEVER results in the higher emergency classification. Figure 2 provides a flowpath for dose assessment methods and plant conditions criteria.

4.1 Plant Conditions

While performing the remainder of step 4.1, have the Shift Radio Chemist (SRC) commence performing the calculations for dose assessment per step 4.2. Use the following guidelines to determine the highest indicated emergency classification based on plant conditions:

Guideline 1, Section I, General Emergency Classification Criteria

Guideline 2, Section I, Site Area Emergency Classification Criteria

Guideline 3, Section I, Alert Criteria

Guideline 4, Section I, NOUE Criteria

4.2 Dose Assessment

CAUTION: DOSE CALCULATIONS FROM EIP-9.1 OR EIP-9.3 ARE NOT TO BE USED TO DECLARE A NOUE OR ALERT SINCE EIP-9.1 AND EIP-9.3 ARE BASED ON EDCM METHODOLOGY, AND NOUE AND ALERT LIMITS ARE BASED ON ODCM METHODOLOGY.

NOTE: Due to the differences in the met data used for EDCM and ODCM calculations, the following sequence of step 4.2 substeps must be followed. The Top Down approach must be used for dose assessment.

NOTE: EDCM dose assessment can only be done from an ERDS terminal or a MIDAS terminal. The only location in the power block where these terminals are available is in the TSC.

NOTE: All of the step 4.2 substeps will normally be accomplished by the SRC with the exception of steps 4.2.8 and 4.2.11. Steps 4.2.8 and 4.2.11 must be performed by the Shift Supervisor, Operations Shift Superintendent, or Emergency Director.

4.2.1 For initial dose assessment from the TSC, proceed to step 4.2.4.

- 4.2.2 For dose assessment from the EOF or long term dose assessment from the TSC, go to EIP-9.3, PERSONNEL COMPUTER-AUTOMATED DOSE ASSESSMENT and perform dose assessment using the MIDAS program. Return to step 4.2.8 for evaluation of dose information and continue with step 4.2.9.
- 4.2.3 If the MIDAS program is inoperable, then for dose assessment from the EOF or from the TSC, go to EIP-9.1, AUTOMATED DOSE ASSESSMENT and perform dose assessment using the ARDA program to obtain dose information. Return to step 4.2.8 for evaluation of dose information and continue with step 4.2.9.
- 4.2.4 If the ARDA System is operable and has been automatically activated, then go to EIP-9.1, AUTOMATED DOSE ASSESSMENT and perform dose assessment using the ARDA program to obtain dose information. Return to step 4.2.8 for evaluation of dose information and continue with step 4.2.9.
- 4.2.5 If the ARDA System per EIP 9.1 is operable, has not automatically activated, and one of the following rad monitors has alarmed:
- R-29
 - R-15C
 - R-60 A, B, C, or D
 - R-14
 - R-21
 - R-22

Then go to EIP-9.1, AUTOMATED DOSE ASSESSMENT, manually start ARDA and perform dose assessment using the ARDA program to obtain dose information. Return to step 4.2.8 for evaluation of dose information and continue with step 4.2.9.

- 4.2.6 If the ARDA system per EIP 9.1, AUTOMATED DOSE ASSESSMENT is NOT operable, then go to EIP-9.3, PERSONAL COMPUTER-AUTOMATED DOSE ASSESSMENT and perform dose assessment using the MIDAS program. Return to step 4.2.8 for evaluation of dose information and continue with step 4.2.9.

- 4.2.7 If the ARDA system per EIP 9.1 AUTOMATED DOSE ASSESSMENT is operable, has not automatically activated, and none of the alarms listed in step 4.2.5 have alarmed then go to EIP-9.5, EMERGENCY CLASSIFICATION BASED ON ODCM to perform dose assessment. Return to step 4.2.11 for evaluation of doserate information.

NOTE: Evaluating the dose assessment information in Step 4.2.8 must be performed by the Shift Supervisor, Operations Shift Superintendent, or Emergency Director in the Control Room or TSC, the DAD or Recovery Manager in the EOF.

- 4.2.8 Using the dose information obtained from EIP-9.1 or EIP-9.3, determine the highest indicated emergency classification from the "High Effluent" criteria in Guideline 1, Section I, or Guideline 2, Section I.

NOTE: If a General Emergency or site area emergency is indicated in the following step, the Emergency Director should consider directing long term dose assessment be performed from the TSC per step 4.2.2.

- 4.2.9 If a General Emergency or Site Area Emergency was indicated from step 4.2.8, then go to step 4.3.

- 4.2.10 If a General Emergency or Site Area Emergency was not indicated in step 4.2.8, then go to EIP-9.5, EMERGENCY CLASSIFICATION BASED ON ODCM. Return to step 4.2.11 for evaluation of doserate information.

NOTE: Evaluating the dose assessment information in Step 4.2.11 must be performed by the Shift Supervisor, Operations Shift Superintendent, or Emergency Director in the Control Room or TSC, the DAD or Recovery Manager in the EOF.

- 4.2.11 Using the dose rate information obtained from EIP-9.5, determine the highest indicated emergency classification from the "High Effluent" criteria in Guideline 3, Section I, and Guideline 4, Section I.

- 4.3 Determine the correct emergency classification, declare the emergency at the time the classification was verified in the Guideline, determine PARs and make notifications.
 - 4.3.1 Compare the emergency classifications determined from steps 4.1 and 4.2 to determine the highest required emergency classification and declare the emergency. Do not wait for dose assessment results from step 4.2 to classify the event if plant conditions require an initial classification or an upgrade classification. As soon as a criteria for classification has been met, the event should be classified by the Operations Shift Superintendent or ED and an upgrade can be done later if required.
 - 4.3.2 Using section L of the guideline for the highest emergency classification determined in step 4.3.1, determine the required protective action recommendations.
 - 4.3.3 Complete the initial notification form at the back of the guideline and perform required notifications.
- 5.0 Perform actions and initial notification to offsite authorities upon initial entry or upgrade into a classification using the applicable guideline:
 - Guideline 1, Section II - General Emergency
 - Guideline 2, Section II - Site Area Emergency
 - Guideline 3, Section II - Alert
 - Guideline 4, Section II - Notification of Unusual Event
- 6.0 Continue reassessment of emergency classification per step 4.0 or 7.0, as appropriate, and transmit follow-up message/periodic update message as follows:
 - 6.1 Transmit Follow-up Messages:
 - 6.1.1 Transmit a follow up message as soon as possible following an initial or upgrade notification. Refer to step 6.2 for time limits.
 - 6.1.2 Use, if desired, EIP-8.3, Step 15, for guidance in completing and transmitting the "Emergency Message" for Follow Up/Periodic Update (Figure 6).

- 6.1.3 When performing dose assessment, transcribe dose information from the form being printed on a blank Figure 6 or use the form being printed. Fill in the remaining information. Transmit follow up message by telecopy.

NOTE: EFFORTS WILL BE MADE TO TRANSMIT FOLLOW-UP REPORTS EVERY HALF HOUR.

- 6.2 Transmit subsequent "Follow Up Message/Periodic Update Message" reports per one of the methods listed in steps 6.1.1 or 6.1.2.
- 6.2.1 At a minimum of once per hour. The hourly requirement may be waived while in a NOUE declaration, if this is agreed to by the state and local agencies.
- 6.2.2 Following a significant change in dose rate that does not require a change in emergency classification.
- 6.2.3 Following a significant change in plant conditions that does not require a change in emergency classification.
- 7.0 Downgrade or closeout an emergency classification after determining, through the use of the guidelines, that the current emergency classification is no longer required. FNP-0-EIP-28.0 will be used to downgrade or closeout an emergency class

GUIDELINE 1

GENERAL EMERGENCY

I. Criteria for Classification

The classification of General Emergency applies to those events which are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential loss of containment integrity. The potential for release of radioactive material for the General Emergency classification is more than 1000 Ci of I-131 equivalent or more than 10^6 Ci of Xe-133 equivalent.

The purpose of the declaration of a General Emergency is to:

- (a) Initiate predetermined protective actions for the public.
- (b) Provide continuous assessment of information from licensee and offsite measurement.
- (c) Initiate additional measures as indicated by event releases or potential releases and,
- (d) Provide current information for and consultation with offsite authorities and the public.

A General Emergency would be declared for any of the following:

1.0 HIGH EFFLUENT

Projected exposure at site boundary or for projected peak dose location within the plume for EDCM calculation:

G1.1 Greater than or equal to 1.0 REM (1000 MREM) TEDE exposure

OR

G1.2 Greater than or equal to 5.0 REM (5000 MREM) thyroid CDE exposure

GUIDELINE 1**GENERAL EMERGENCY****2.0 FISSION PRODUCT BARRIERS**

G2.1 Loss of two of three fission product barriers with a potential loss of the third. The following describe indication of loss of these boundaries:

(a) Fuel cladding damage indicated by:

1. RCS activity > 300 $\mu\text{Ci}/\text{gram}$ dose equivalent I-131. Figure 8 may be used to help evaluate if Dose Equivalent I-131 (DEI) is > 300 $\mu\text{Ci}/\text{gram}$.

OR

2. Loss of core geometry is indicated by ΔT between RCS wide range hot leg and cold leg temperature of $>64^\circ\text{F}$ and core exit temperature (incore thermocouples) reading greater than 1200°F .

(b) Loss of primary coolant boundary as indicated by:

1. Containment pressure reaching 27 psig **AND**
2. High containment radiation (R-2, R-22 and R-12, reaching their alarm setpoint) **AND**,
3. High containment humidity.

(c) Loss or potential loss of containment integrity is indicated by:

1. Containment pressure greater than 54 psig, **OR**
2. A rapid decrease in containment pressure, **OR**
3. Failure of the containment isolation system resulting in a direct path from containment to the environment.

(d) Other plant conditions exist, from whatever source, that make release of large amounts of radioactivity in a short time period possible, such as any core melt situation.

GUIDELINE 1

GENERAL EMERGENCY

3.0 SECURITY/EVACUATION

G3.1 Loss of physical control of the facility. If the basis for declaring this emergency classification is based on security concerns then refer to table 3 prior to taking actions that will cause people to report to the site or change locations on site

GUIDELINE 1

GENERAL EMERGENCY

II. Emergency Director Actions

NOTE: THE OPERATIONS SHIFT SUPERINTENDENT SHALL PERFORM THE DUTIES OF THE EMERGENCY DIRECTOR UNTIL HIS ARRIVAL AND ASSUMPTION OF DUTIES.

NOTE: ACTIVATION OF THE TSC AND EOF STAFFS, PER STEPS E1 AND E2, SHOULD BE DONE IN PARALLEL WITH NOTIFICATION OF THE STATE AND LOCAL AGENCIES.

Initials

- ___ A. Sound the Plant Emergency Alarm, if not already sounded.
- B. Announce the condition and give needed evacuation instructions over plant public address system.

NOTE: IF POSSIBLE AND TIME PERMITTING, COVER WITH ARCD AND GEMA ABOUT THE PARs PRIOR TO ANNOUNCING THEM OVER THE ENN.

- ___ C. Fill in the General Emergency Initial Notification Form (last two pages of this guideline), including developing protective action recommendations per step L. Take into account the zones and evacuation time estimates shown in Figure 1.

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE SHIFT CLERK, BUT MAY BE MADE BY OPERATIONS STAFF, TSC STAFF OR OTHER QUALIFIED PERSON USING THE INITIAL NOTIFICATION FORM (LAST TWO PAGES OF THIS GUIDELINE).

NOTE: INITIAL AND UPGRADE CLASSIFICATIONS AND NOTIFICATIONS SHOULD BE PERFORMED BY THE CONTROL ROOM OR THE TSC STAFF, WITH THE EOF INFORMED AS SOON AS POSSIBLE.

- D. Initial Notifications
 - ___ 1. Within 15 minutes of declaration, verbally notify the state and local agencies using the General Emergency Initial Notification Form (last two pages of this guideline).
 - ___ 2. Verify notifications complete and documented on the General Emergency Initial Notification Form (last two pages of this guideline).

GUIDELINE 1

GENERAL EMERGENCY

E. Emergency Organization Notifications

NOTE: STEPS E1 AND E2, NOTIFYING THE TSC AND EOF STAFF, WILL NORMALLY BE ACCOMPLISHED BY HAVING THE SHIFT CLERK COORDINATE ACTIVATION OF THE COMMUNITY ALERT NETWORK (CAN) PER FNP-0-EIP-8.3, TABLE 2 AND STEP 11.

- ___ 1. TSC Staff (full activation required)
- ___ 2. EOF Staff (full activation required)
- ___ 3. On-call Emergency Director
- ___ 4. On-call Recovery Manager
- ___ 5. Emergency Support Manager
- ___ 6. Notify Security of Emergency, incoming personnel, access restrictions and to setup the EOF (pax 4611).

F. Other Notifications

- ___ 1. NRC (Perform immediately after state notification and within one hour of declaration per Figure 6, side 2).
- ___ 2. Have Regulatory ERDS activated to transmit data to the NRC within one hour of the declaration of the emergency (EIP-8-3, step 10).
- ___ 3. If personnel injury or fire is involved, refer to FNP-0-EIP-11.0 and 13.0 respectively for additional actions and EIP-8.0 steps 5.0 and 6.0 for additional notification requirements.
- ___ 4. U.S. Army EOD group at Fort Benning, GA, if necessary.
- ___ 5. Savannah River Operations Office, if necessary.

GUIDELINE 1

GENERAL EMERGENCY

G. In Plant Protective Actions

- ___ 1. Ensure personnel accountability per EIP-10.0.
- ___ 2. Plan and initiate reentry's per EIP-14.0.
- ___ 3. Ensure proper Control Room response.
- ___ 4. Assign an individual to provide periodic plant status updates.
- ___ 5. Assign an individual to maintain a log of important Emergency Director activities.
- ___ 6. Assign an individual to keep a record of all off-site communications.

H. Off-Site Support

- ___ 1. Ensure Radiation Monitoring teams have been dispatched per EIP-4.0.
- ___ 2. Provide information to the Recovery Manager for use in press releases and recovery planning.

I. Information to Off Site Authorities

- ___ 1. Provide periodic plant status updates, meteorological and dose estimates and release projections based on plant conditions and foreseeable contingencies.

J. Re-Assess plant conditions

- ___ 1. Continue to assess plant and radiological conditions to ensure the correct emergency classification is declared.
- ___ 2. If plant and radiological conditions no longer require the current emergency classification downgrade or close out the emergency class using FNP-0-EIP-28.0.

K. Long term staffing

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs.
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.

GUIDELINE 1

GENERAL EMERGENCY

NOTE: Only the technically based protective actions specified below should be recommended unless there are obvious relevant factors (e.g., severe natural phenomena) that probably were not anticipated when the PARs were developed and that would make the standard PAR recommendations impractical or obviously non-conservative. In such events, the emergency director should use his own judgment as appropriate.

L. Protective action recommendation guidance

a. EVACUATE AND CONTROL ACCESS IN DOWNWIND ZONES

Recommend immediate evacuation for all of the general population and controlling access within a two mile radius of FNP (Zone A) and 5 miles downwind of FNP (Zones B-5, C-5,...K-5).

- When evacuating 5 mile downwind zones, disregard portions of the 10 mile zones, D-10 through G10 and I-10 through K-10, which fall within 5 miles of FNP.
- Recommendation of a partial evacuation of a zone is not allowed.
- Consider wind direction variability for inclusion of zones adjacent to the plume.
- Recommendation should include zones that fall within approximately 45 degrees (22.5 degrees on either side) of the down wind direction.
- Evacuation time estimates indicated on Figure 1 for the effected zones should be considered when making evacuation recommendations.

b. SHELTER AND CONTROL ACCESS IN DOWNWIND ZONES

Recommend immediate sheltering of the general population and controlling access in the 10 mile downwind zones (B-10, C-10,...K-10), unless more extensive protective actions are known to be required.

- Recommendation of partial sheltering of a zone is not allowed.
- Consider wind direction variability.
- Consideration should be given to zones adjacent to the plume.
- Recommendation should include zones that fall within approximately 45 degree (22.5 degrees on either side) of the down wind direction.

c. If an emergency radioactive release (10 times normal, refer to eip-8.3 step 15) is in progress, then make the following additional recommendations by checking block E on the notification forms:

- Recommend locating and evacuating hot spots.
- Recommend implementing control of food and water supplies pending.
- Sampling and analysis and possible confiscation in certain areas.
- Recommend monitoring of environmental radiation levels.
- Recommend to consider evacuation of children and pregnant women.

(PARs continued on next page)

GUIDELINE 1**GENERAL EMERGENCY**

- d. If dose projections or measured values indicate that General Emergency TEDE or Thyroid CDE limits are exceeded beyond the 5 miles that would normally be evacuated, then consider making the following additional recommendations (Do not delay sending the initial pre determined PARs to do this step.):
- The ED should use best judgement when making these recommendations.
 - Many assumptions exist in dose assessment calculations involving both source term and meteorological factors which make computer predictions over long distances highly conservative and subject to scrutiny.
 - RMTs should normally be dispatched to verify radiation levels prior to making PARs beyond the above pre-determined PARs.
 - If GE TEDE or CDE limits are exceeded between 5 and 10 miles, consider recommending evacuation of downwind zones out to 10 miles and sheltering downwind areas to 15 miles.
 - If GE TEDE or CDE limits are exceeded beyond 10 miles, consider recommending evacuation of downwind areas out to a distance where the GE TEDE or CDE limits are no longer exceeded and sheltering downwind to 5 miles beyond the recommended evacuation area.
 - When making recommendations for evacuation or sheltering areas outside the 10 mile EPZ simply identify the distance and direction to the states without specifying specific areas.
- e. **PAR CONTINUING ACTIONS**
- Continue to assess conditions such as wind direction shifts, changes in release status, changes in source term, or changes in stability class and upgrade PARs as necessary.
 - PARs should be upgraded within 15 minutes of discovery of the status change that required the upgrade.
 - Changes in PARs should be transmitted verbally to the state and local agencies within 15 minutes of the PAR upgrade.
 - Verbal notification can be done using any convenient communication method. No specific form is required for the verbal notification. Document the notification times on Figure 6.
 - Follow the initial verbal notification as soon as possible with a follow-up message on Figure 6 that is sent to the states and counties as hardcopy.

GUIDELINE 1
GENERAL EMERGENCY
RED INITIAL NOTIFICATION FORM

1. A This is a Drill B Actual Emergency Initial

2. Site: Farley Nuclear Plant

3. Confirmation Phone Numbers: (334)899-5156 or (334)794-0800 Ext.

5. Emergency Classification: General Emergency

6. Emergency Declaration At: Time/Date _____ / _____ / _____
(central) MM DD YY

7. Emergency Classification criteria: G1.1 G1.2 G2.1 G3.1
Failed Barriers: RCS Containment Fuel Clad none Heat Removal Sys Inadequate

14. Meteorological Data A Wind Direction (from) _____ B Speed(mph) _____ C ΔT _____

15. Recommended Actions:

Evacuate and control access in down wind zones
 A-2 B-5 C-5 D5 E-5 F-5 I-5 J-5 K-5

D1 Shelter and control access in down wind zones OR D2 Evacuate and control access in down wind zones
 B-10 C-10 D-10 E-10 F-10 G-10 H-10 I-10 J-10 K-10

E In all affected areas: Monitor environmental radiation levels, locate and evacuate hot spots and implement control and possible confiscation of food and water supplies and consider evacuation of children and pregnant women.

F Other _____

16. Approved By: _____ Emergency Director
(Name) (Title)

- A. _____ Line 1 check box A or B.
- B. _____ Line 3 fill in an extension number that will be staffed.
- C. _____ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- D. _____ Line 7 check the box(es) for the criteria requiring this emergency classification. On the bottom line check the failed barriers or none if no failed barriers exist and check Heat removal Inadequate if appropriate. If additional information is required list it on a separate page and have it read over the ENN when line 7 is read.
- E. _____ Line 14 enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP
- F. _____ Line 15 indicate the PARs required for this declaration, by selecting the down wind zones in lines C and D1 or D2. Check line E if an emergency release is in progress. Use line F as appropriate. For example list PARs beyond 10 miles.
- G. _____ Line 16 the Emergency Director must sign this form.
- H. _____ Within 15 minutes of declaration time, using the ENN (instructions on following page), contact the state and local agencies listed below. Enter below the time of the attempted initial ENN contact (transmission time). Enter below the name of the person contacted once obtained. Check the acknowledged box when receipt of message is acknowledged. The table on the next page lists methods of contact

AORC/Troopers/Hous. Co. Time _____ Name _____ Acknowledged

GEMA/Early County Time _____ Name _____ Acknowledged

If AORC is at the FEOC in Houston county then Houston County is not required to be notified

Houston County Time _____ Name _____ Acknowledged

If GEMA is at the FEOC in Early county then Early County is not required to be notified

Early County Time _____ Name _____ Acknowledged

If AEMA is not on the ENN they are not required to be notified

AEMA Time _____ Name _____ Acknowledged

I. _____ Proceed to the following page for the REMAINING NOTIFICATIONS at step J.

GUIDELINE 1
GENERAL EMERGENCY
RED INITIAL NOTIFICATION FORM

ENN INSTRUCTIONS FOR INITIAL NOTIFICATION

1. Pickup handset, Dial CC9907 to open all speakers, DIAL ** on the ENN, wait 10 seconds, press to talk and announce "This is name/title at Farley Nuclear Plant. Please obtain a GENERAL EMERGENCY RED initial notification form and monitor the ENN."
2. Request a state level agency for Alabama and Georgia, a county level agency for Houston County (not required if AORC at the FEOC) and Early County (not required if GEMA at the FEOC), and AEMA acknowledge manning of the ENN per step H on the previous page.
Example "AORC at Montgomery EOC are you on the line?"
3. Pickup handset, DIAL ** on the ENN, wait 10 seconds, press to talk and announce on the ENN "Please prepare to receive a GENERAL EMERGENCY, RED initial notification message with acknowledgment", then slowly read the GE initial notification form over the ENN.
4. Have the agencies contacted above, acknowledge receipt of the message.
5. Pickup handset, Dial CC9900 to close all speakers opened in step 1.
6. If any required agency could not be contacted on the ENN, then use numbers listed below or in FNP-0-EIP-8.3 to contact them by any available means.

NOTIFICATION MEANS (underlined numbers are available 24 hours a day)

<p>ALABAMA State Agencies In preferred order AORC at Montgomery EOC ENN (11), OPX (6628), phone (334-242-4378) FAX (334-264-4396)</p> <p>State Troopers in Montgomery ENN (12), phone (334-242-4378, 4379)</p> <p>AORC at Alabama Forward EOC ENN (13), OPX 6621), phone (334-793-1565) FAX (8-257-1535)</p> <p>HOUSTON COUNTY ENN(31), ENN(13), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808)</p> <p>AEMA COURTESY NOTIFICATION ENN (51)</p>	<p>GEORGIA State Agencies In preferred order GEMA at Atlanta EOC <u>ENN (21), OPX (6629), Phone (404-635-7200)</u> <u>FAX (404-627-4850)</u></p> <p>GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (912-723-4764, 4826,4956) FAX (8-257-2455)</p> <p>EARLY COUNTY <u>ENN(42) ENN(41) OPX (6622)FAX(8-257-2455)</u> <u>phone(912-723-3577, 3578, 4746, 4826, 4956)</u></p> <p>FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) FAX (850-488-7841)</p>
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REMAINING NOTIFICATIONS (continued from previous page)

- J. ___ Fax a copy of the previous page GENERAL EMERGENCY RED INITIAL NOTIFICATION FORM to the state of Florida, EOF and EOC using speed dial #10 or an alternative method of contact that is listed in the table above.
- K. ___ Verify the state of Florida has received the FAX using the numbers listed in the table above.
- L. ___ Complete Figure 6, side 1, as an initial backup message (check line 1 box C) as soon as possible.
- M. ___ Fax Figure 6, side 1, to state and local agencies as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.
- N. ___ Provide the information on Figure 6, side 1, to the NRC as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.

GUIDELINE 2**SITE AREA EMERGENCY****I. Criteria for Classification**

The classification of Site Area Emergency applies to those events which are in progress or have occurred involving actual or likely major failures of plant functions needed for protection of the public from radiation or contamination. The potential for release of radioactive material for the Site Area Emergency classification is up to 1000 Ci of I-131 equivalent, or 10^4 to 10^6 Ci of Xe-133 equivalent. The purpose of the declaration of a Site Area Emergency is to:

- (a) Assure that response centers are manned,
- (b) Assure that monitoring teams are dispatched,
- (c) Assure that personnel involved in an evacuation effort of near site areas are at their duty stations if the situation worsens, and,
- (d) Provide current information for and consultation with offsite authorities and the public.
- (e) A Site Area Emergency would be declared for plant conditions that warrant activation of emergency centers and monitoring teams.

A Site Area Emergency would be declared for any of the following:

1.0 RCS FAULT

S1.1 A major loss of primary coolant as indicated by:

- (a) Decreasing pressurizer pressure and possible level, **AND**
- (b) Near normal steam pressure in all steam generators accompanied by,
 - (1) Containment pressure reaching 27 psig, **AND**
 - (2) High containment radiation (R-2, R-11, and R-12 reaching their alarm setpoint), **AND**
 - (3) High containment sump (recirculation) level **AND**
 - (4) High containment humidity.

GUIDELINE 2**SITE AREA EMERGENCY**

S1.2 Rupture of a control rod mechanism housing as indicated by the following:

- (a) Rod position indication, **AND**
- (b) High RCS pressure surge, **AND**
- (c) Momentary nuclear power surge, **AND**
- (d) Subsequent behavior indicating a loss of primary coolant.

2.0 **SG FAULT OR RUPTURE**

S2.1 A loss of offsite power (an unplanned loss of power to the emergency 4160 volt busses F and G from off site sources that are not part of a pre-planned test sequence) (LER #2000-005-00 Unit 1) and a steam generator tube rupture as indicated by:

- (a) ECCS actuation, **AND**
- (b) High secondary coolant activity (R-15 or R-19 reach full scale)

S2.2 Greater than 50 gpm primary to secondary leak, fuel damage as evidenced by a reactor coolant activity greater than technical specifications, and a steam line break outside containment as indicated by:

- (a) Abnormally low steam pressure on one or all steam generators with one or more of the following:
 - (1) Steam line high flow,
 - (2) Steam line high differential pressure,
 - (3) Steam flow greater than feed flow

AND

- (b) No abnormal temperature or humidity increase in containment,

GUIDELINE 2**SITE AREA EMERGENCY****3.0 DEGRADED CORE/FUEL FAULT**

S3.1 RCS activity > 300 $\mu\text{Ci}/\text{gram}$ dose equivalent I-131 with potential excessive RCS leakage or potential loss of containment. Figure 8 may be used to help evaluate if Dose Equivalent I-131 (DEI) is > 300 $\mu\text{Ci}/\text{gram}$.

S3.2 Degraded core conditions with possible loss of core geometry as indicated by:

(a) ΔT between RCS wide range hot leg and cold leg temperature >64°F and core exit temperature (in core thermocouples) reading greater than 800°F and increasing, **OR**

(b) Core exit temperature (in core thermocouples) >1200°F.

- Spent fuel handling accident for which sampling or radiation monitors indicate a projected lower limit of offsite individual exposure to be:

S3.3 100 mrem (.1 rem) TEDE **OR**

S3.4 500 mrem (.5 rem) thyroid CDE

As a result of one of the following:

(a) Dropped spent fuel assembly, **OR**

(b) An object is dropped onto a spent fuel assembly, **OR**

(c) A cask containing a spent fuel assembly is dropped exposing the assembly, **OR**

(d) A spent fuel assembly is deformed as a result of any manipulation, **OR**

(e) Spent fuel pool water level below top of assemblies.

GUIDELINE 2

SITE AREA EMERGENCY

4.0 HIGH EFFLUENT

- Projected exposure at site boundary or projected peak dose location within the plume for EDCM calculation:

S4.1 Greater than or equal to 100 mrem (.1 rem) TEDE exposure

OR

S4.2 Greater than or equal to 500 mrem (.5 rem) thyroid CDE exposure

5.0 EQUIPMENT/STRUCTURE FAILURE

S5.1 Loss of functions for achieving hot standby.

S5.2 Transients requiring operation of shutdown systems with failure to trip (continued power generation but no core damage immediately evident).

6.0 ELECTRICAL/INSTRUMENTATION FAULT

S6.1 Loss of offsite power (an unplanned loss of power to the emergency 4160 volt busses F and G from off site sources that are not part of a pre-planned test sequence) (LER #2000-005-00 Unit 1) with a failure of all emergency AC power for more than 15 minutes.

S6.2 Loss of both trains of auxiliary building DC power for more than 15 minutes.

S6.3 Loss of all main control board annunciator capability for more than 15 minutes while:

- (a) Plant is not in cold shutdown, **OR**
- (b) Significant plant transient is initiated while all alarms lost.

GUIDELINE 2

SITE AREA EMERGENCY

7.0 SITE HAZARDS

S7.1 A fire affecting ECCS.

Severe natural phenomena being experienced or projected with plant not in cold shutdown:

S7.2 Earthquake greater than SSE levels

S7.3 Flood, low river water, or hurricane surge greater than design levels.

S7.4 Winds in excess of 115 mph.

Other hazards being experienced with the plant not in cold shutdown as follows:

S7.5 Aircraft crash affecting vital structures by fire or impact, **OR**

S7.6 Severe damage to safe shutdown equipment from missiles or explosion, **OR**

S7.7 Entry of toxic or flammable gases into vital areas(s)

8.0 SECURITY/EVACUATION

S8.1 Imminent loss of physical control of the plant (i.e., takeover by terrorists, anti-nuclear factions, etc.). If the basis for declaring this emergency classification is based on security concerns, then refer to table 3 prior to taking actions that will cause people to report to the site or change locations on site.

S8.2 Evacuation of the control room and control of shutdown systems not established from local stations in 15 minutes.

GUIDELINE 2

SITE AREA EMERGENCY

II. Emergency Director Actions

NOTE: THE OPERATIONS SHIFT SUPERINTENDENT SHALL PERFORM THE DUTIES OF THE EMERGENCY DIRECTOR UNTIL HIS ARRIVAL AND ASSUMPTION OF DUTIES.

NOTE: ACTIVATION OF THE TSC AND EOF STAFFS, PER STEPS E1 AND E2, SHOULD BE DONE IN PARALLEL WITH NOTIFICATION OF THE STATE AND LOCAL AGENCIES.

Initials

- _____ A. Sound the Plant Emergency Alarm, if not already sounded.
- _____ B. Announce the condition and give needed evacuation instructions over plant public address system.
- _____ C. Fill in the SITE AREA Emergency Initial Notification Form (last two pages of this guideline), including developing protective action recommendations per step L. Take into account the zones and evacuation time estimates shown in Figure 1.

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE SHIFT CLERK, BUT MAY BE MADE BY OPERATIONS STAFF, TSC STAFF OR OTHER QUALIFIED PERSON USING THE INITIAL NOTIFICATION FORM (LAST TWO PAGES OF THIS GUIDELINE).

NOTE: INITIAL AND UPGRADE CLASSIFICATIONS AND NOTIFICATIONS SHOULD BE DONE FROM THE CONTROL ROOM OR THE TSC, WITH THE EOF INFORMED AS SOON AS POSSIBLE.

- D. Initial Notifications
 - _____ 1. Within 15 minutes of declaration verbally notify the state agencies using the Site Area Emergency Initial Notification Form (last two pages of this guideline).
 - _____ 2. Verify notifications complete and documented on the Site Area Emergency Initial Notification Form (last two pages of this guideline).

GUIDELINE 2

SITE AREA EMERGENCY

E. Emergency Organization Notifications

NOTE: STEPS E1 AND E2, NOTIFYING THE TSC AND EOF STAFF WILL NORMALLY BE ACCOMPLISHED BY HAVING THE SHIFT CLERK COORDINATE ACTIVATION OF THE COMMUNITY ALERT NETWORK (CAN) PER FNP-0-EIP-8.3, TABLE 2 AND STEP 11).

- ___ 1. TSC Staff (full activation required initially and then downsize if appropriate per table 2)
- ___ 2. EOF Staff (full activation required initially and then downsize if appropriate per table 2)
- ___ 3. On-call Emergency Director
- ___ 4. On-call Recovery Manager
- ___ 5. Emergency Support Manager
- ___ 6. Notify Security of Emergency, incoming personnel, access restrictions and to setup the EOF (pax 4611).

F. Other Notifications

- ___ 1. NRC (Perform immediately after state notification and within one hour of declaration per Figure 6, side 2.)
- ___ 2. Have Regulatory ERDS activated to transmit data to the NRC within one hour of the declaration of the emergency (EIP 8.3, step 10).
- ___ 3. If personnel injury or fire is involved, refer to FNP-0-EIP-11.0 and 13.0 respectively for additional actions and EIP-8.0 steps 5.0 and 6.0 for additional notifications.
- ___ 4. U.S. Army EOD group at Fort Benning, GA, if necessary.
- ___ 5. Savannah River Operations Office, if necessary.

GUIDELINE 2

SITE AREA EMERGENCY

G. In Plant Protective Actions

- 1. Ensure personnel accountability per EIP-10.0.
- 2. Plan and initiate reentries per EIP-14.0.
- 3. Ensure proper Control Room response.
- 4. Assign an individual to provide periodic plant status updates.
- 5. Assign an individual to maintain a log of important Emergency Director activities.
- 6. Assign an individual to keep a record of all off site communications.

H. Off Site Support

- 1. Ensure Radiation Monitoring teams have been dispatched per EIP-4.0.
- 2. Provide information to the Recovery Manager for use in press releases and recovery planning.

I. Information to Off Site Authorities

- 1. Provide periodic plant status updates, meteorological and dose estimates and release projections based on plant conditions and foreseeable contingencies.

J. Re-Assess plant conditions

- 1. Continue to assess plant and radiological conditions to ensure the correct emergency classification is declared.
- 2. If a higher emergency classification is required immediately go to the appropriate guideline.
- 3. If plant and radiological conditions no longer require the current emergency classification downgrade or close out the emergency class using FNP-0-EIP-28.0.

GUIDELINE 2

SITE AREA EMERGENCY

K. Long term staffing

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs.
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.

L. Protective action recommendation guidance

NOTE Only the technically based protective actions specified below should be recommended unless there are obvious relevant factors (e.g., severe natural phenomena) that probably were not anticipated when the PARs were developed, and that would make the standard PAR recommendations impractical or obviously non-conservative. In such events, the emergency director should use his own judgment as appropriate.

- a. Protective Action Recommendations are not required; however, they may (at the discretion of the Emergency Director) be made as a precautionary measure, depending on the severity of the plant condition or if the site boundary dose is approaching the General Emergency limit. Refer to the note above.
- b. If it is determined that PARs are required, then use the guidance of Guideline 1, Section L when making the recommendations
- c. Continue to assess plant and radiological conditions such as wind direction shifts, changes in release status, changes in source term, or changes in stability class and upgrade PARs as necessary. PARs should be upgraded within 15 minutes of discovery of the status change that required the upgrade. Changes in PARs should be transmitted verbally to the state and local agencies within 15 minutes of the PAR upgrade. Verbal notification can be done using any convenient communication method, no specific form is required. Follow the initial verbal notification as soon as possible with a follow-up message on Figure 6 that is sent to the states and counties as hardcopy.

SHADED
GUIDELINE 2
SITE AREA EMERGENCY
ORANGE INITIAL NOTIFICATION FORM

1. A This is a Drill B Actual Emergency Initial
2. Site: Farley Nuclear Plant
3. Confirmation Phone Numbers: (334)899-5156 or (334)794-0800 Ext.
5. Emergency Classification: Site Area Emergency
6. Emergency Declaration At: _____ Time/Date _____ / _____ / _____
(central) MM DD YY
7. Emergency Classification criteria: S1.1 S1.2 S2.1 S2.2 S3.1 S3.2
 S3.3 S3.4 S4.1 S4.2 S5.1 S5.2 S6.1 S6.2 S6.3
 S7.1 S7.2 S7.3 S8.1 S8.2
Failed Barriers: RCS Containment Fuel Clad none Heat Removal Sys Inadequate
14. Meteorological Data A Wind Direction (from) _____ B Speed(mph) _____ C ΔT _____
15. Recommended Actions:
 - A There are no recommended protective actions.
 - C Evacuate and control access in down wind zones
 A-2 B-5 C-5 D5 E-5 F-5 I-5 J-5 K-5
 - D1 Shelter and control access in down wind zones **OR** D2 Evacuate and control access in down wind zones
 B-10 C-10 D-10 E-10 F-10 G-10 H-10 I-10 J-10 K-10
 - E In all affected areas: Monitor environmental radiation levels, locate and evacuate hot spots and implement control and possible confiscation of food and water supplies and consider evacuation of children and pregnant women.
 - F Other _____
16. Approved By: _____ Emergency Director
(Name) (Title)
 - A. _____ Line 1 check box A or B.
 - B. _____ Line 3 fill in an extension number that will be staffed.
 - C. _____ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
 - D. _____ Line 7 check the box(es) for the criteria requiring this emergency classification. On the bottom line check the failed barriers or none if no failed barriers exist and check Heat removal Inadequate if appropriate. If additional information is required, list it on a separate page and have it read over the ENN when line 7 is read.
 - E. _____ Line 14-enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP.
 - F. _____ Line 15 indicate the PARs required for this declaration, (normally line 15A, none for SAE). If PARs are required, indicate by selecting the down wind zones in lines C and D1 or D2. Check line E if an emergency release is in progress. Use line F as appropriate.
 - G. _____ Line 16, the Emergency Director must sign this form.
 - H. _____ Within 15 minutes of declaration time, using the ENN (instructions on following page), contact the state agencies listed below. Enter below the time of the attempted initial ENN contact (transmission time). Enter below the name of the person contacted once obtained. Check the acknowledged box when receipt of message is acknowledged. The table on the next page lists methods of contact
AORC/Troopers/Hous. Co. Time _____ Name _____ Acknowledged
GEMA/Early County Time _____ Name _____ Acknowledged
If AEMA is not on the ENN, they are not required to be notified.
AEMA Time _____ Name _____ Acknowledged
 - I. _____ Proceed to the following page for the REMAINING NOTIFICATIONS at step J.

**GUIDELINE 2
SITE AREA EMERGENCY
ORANGE INITIAL NOTIFICATION FORM**

- ENN INSTRUCTIONS FOR INITIAL NOTIFICATION**
1. Pickup handset, dial CC9907 to open all speakers, DIAL ** on the ENN, wait 10 seconds, press to talk and announce **“This is name/title at Farley Nuclear Plant. Please obtain an SITE AREA EMERGENCY, ORANGE initial notification form and monitor the ENN.”**
 2. Request a state level agency for Alabama and Georgia and the AEMA acknowledge manning of the ENN per step H on the previous page. Example **“AORC at Montgomery EOC are you on the line?”**
 3. Pickup handset, DIAL ** on the ENN, wait 10 seconds, press to talk and announce on the ENN **“Please prepare to receive a SITE AREA EMERGENCY, ORANGE initial notification message with acknowledgment”**, then slowly read the SAE initial notification form over the ENN.
 4. Have the agencies contacted above, acknowledge receipt of the message.
 5. Pickup handset, dial CC9900 to close all speakers opened in step 1.
 6. If any required agency could not be contacted on the ENN, then use numbers listed below or in FNP-0-EIP-8.3 to contact them by any available means.

NOTIFICATION MEANS (underlined numbers are available 24 hours a day)	
<p>ALABAMA State Agencies in preferred order AORC at Montgomery EOC ENN (11), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery ENN (12), phone (334-242-4378, 4379) AORC at Alabama Forward EOC ENN (13), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY ENN(31), ENN(13), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808)</p>	<p>GEORGIA State Agencies in preferred order GEMA at Atlanta EOC ENN (21), OPX (6629), Phone (404-635-7200) FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (912-723-4764, 4826,4956) FAX (8-257-2455) EARLY COUNTY ENN(42) ENN(41) OPX (6622)FAX(8-257-2455) phone(912-723-3577, 3578, 4746, 4826, 4956)</p>
<p>AEMA COURTESY NOTIFICATION ENN (51)</p>	<p>FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) . FAX (850-488-7841)</p>

REMAINING NOTIFICATIONS (continued from previous page)

- J _____ Fax a copy of the previous page SITE AREA EMERGENCY, ORANGE INITIAL NOTIFICATION FORM to the state of Florida, EOF and EOC using speed dial #10 or an alternative method of contact that is listed in the table above.
- K _____ Verify the state of Florida has received the FAX using the numbers listed in the table above.
- L _____ Complete Figure 6, side 1, as an initial backup message (check line 1 box C) as soon as possible.
- M _____ Fax Figure 6, side 1, to state and local agencies as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.
- N _____ Provide the information on Figure 6, side 1 to the NRC as soon as possible but within one hour of the declaration per the instructions on Figure 6, side 2.

GUIDELINE 3**ALERT****I. Criteria for Classification**

The classification of Alert applies to situations in which events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. The potential for release of radioactive material for the Alert classification is up to 10 curies of I-131 equivalent, or up to 10^4 curies of Xe-133 equivalent. The purpose of offsite alert is to assure that emergency personnel are readily available to respond if the situation becomes more serious or to perform confirmatory radiation monitoring, if required, and to provide offsite authorities current status information for possible further action.

- (a) An Alert would be declared for plant conditions that warrant precautionary activation of the technical support center, operations support centers, and the emergency operations facility (at the discretion of the Recovery Manager).

An Alert would be declared for any of the following:

1.0 RCS FAULT

A1.1 A primary coolant leak greater than 50 gpm. Indications of such a leak will include high charging flow **AND**

- (a) High containment radiation (R 2, R 22, and R 12) **AND**
- (b) High containment humidity
- OR**
- (c) Pressurizer relief or safety valve discharge line temperature high **AND**
- (d) Pressurizer relief tank level, pressure or temperature increasing or above normal.

A1.2 Single rod cluster control assembly withdrawal at power as detected by:

- (a) Rod position indicator, **AND**
- (b) Increasing core power, **AND**
- (c) Increasing Tavg.

GUIDELINE 3

ALERT

2.0 SG FAULT OR RUPTURE

A2.1 Steam generator tube rupture indicated by:

- (a) ECCS actuation, **AND**
- (b) High secondary coolant activity (R-15, R-19, R-23A, or R-23B reach full scale).

A2.2 Greater than 10 gpm primary to secondary leak as indicated by high secondary coolant activity (R-15, R-19, R-23A, or R-23B alarming) **WITH** a steam line break outside containment indicated by:

- (a) Abnormally low steam pressure on one or all steam generators with one or more of the following:
 - (1) Steam line high flow, **OR**
 - (2) Steam line high differential pressure, **OR**
 - (3) Steam flow greater than feedwater flow

AND

- (b) No abnormal temperature, or humidity increase in containment.

A2.3 A steam or feed line break inside containment as indicated by abnormally low pressure on one steam generator with the following:

- (a) Steam line high differential pressure, **OR**
- (b) Steam flow greater than feed flow, **OR**
- (c) Steam line high flow, **AND**
- (d) Containment high temperature

GUIDELINE 3**ALERT****3.0 DEGRADED CORE/FUEL FAULT**

- A3.1** Severe loss of fuel cladding as indicated by a reactor coolant activity equal to or greater than 300 $\mu\text{Ci}/\text{gram}$ equivalent I-131. Figure 8 may be used to help evaluate if Dose Equivalent I-131 (DEI) is $> 300 \mu\text{Ci}/\text{gram}$.
- A3.2** Spent fuel handling accident in which an increase in radiation level (i.e., alarm condition or off scale reading) is observed on R-2, R-11, R-12, R-5, **OR** R-25 as a result of one of the following:
- (a) Dropped spent fuel assembly, **OR**
 - (b) An object is dropped onto a spent fuel assembly, **OR**
 - (c) A cask containing a spent fuel assembly is dropped, **OR**
 - (d) A spent fuel assembly is deformed as a result of any manipulation, **OR**
 - (e) Low spent fuel pool water level.

4.0 HIGH EFFLUENT

Radiological effluent at the site boundary (combined effect from both units) greater than 10 times the radiological technical specification instantaneous limits (based on ODCM) as follows, per EIP-9.5:

- A4.1** Liquids: 10 times 10CFR20 Appendix B, Table 2, Column 2
- A4.2** Liquids: Dissolved or entrained noble gases: 0.001 mCi/ml
- A4.3** Noble gases (whole body) 5.7E-4 Rem/hr (5.7E-1 mrem/hr)
- A4.4** Noble gases (skin): 3.4E-3 Rem/hr (3.4 mrem/hr)
- A4.5** Airborne radioiodine and particulates other than noble gases: 1.7E-3 Rem/hr (1.7 mrem/hr)

GUIDELINE 3**ALERT**

A4.6 High radiation levels or high airborne contamination indicative of a severe degradation in the control of radioactive materials as indicated by:

- (a) Readings on R-14 (stack gas monitor), R-21 (stack particulate monitor) **OR** R-22 (stack gas monitor) reading off scale,

AND

- (b) Sampling on R-27 high range containment monitor confirms direct readings.

5.0 EQUIPMENT/STRUCTURE FAILURE

A5.1 Loss of all auxiliary feedwater (Modes 1-3), **OR**

A5.2 Loss of both trains of RHR (All modes), **OR**

A5.3 Loss of both trains of CCW (Modes 1-4), **OR**

A5.4 Loss of both trains of Service Water (Modes 1-4)

A5.5 Failure of the reactor protection system to initiate and complete a trip which brings the reactor subcritical.

6.0 ELECTRICAL/INSTRUMENTATION FAULT

A6.1 Loss of offsite power (an unplanned loss of power to the emergency 4160 volt busses F and G from off site sources that are not part of a pre-planned test sequence) (LER #2000-005-00 Unit 1) with a failure of all emergency AC power for less than 15 minutes.

A6.2 Loss of both trains of auxiliary building DC power for less than 15 minutes.

A6.3 Loss of all main control board annunciator capability.

GUIDELINE 3

ALERT

7.0 SITE HAZARDS

Severe natural phenomena being experienced or projected as follows:

- A7.1** Earthquake greater than OBE levels. (ARP-1.12 LOC MK5)
- A7.2** Flood, low river water or hurricane surge near design levels that could impact plant operations.
- A7.3** Any tornado striking facility
- A7.4** Hurricane winds near design basis level (115 mph)

Hazards experienced onsite which affect plant operation such as:

- A7.5** Aircraft crash
- A7.6** Release of toxic gas
- A7.7** Release of flammable gas
- A7.8** Fire or explosion potentially affecting ECCS

8.0 SECURITY/EVACUATION

- A8.1** A security emergency involving the occurrence of or imminent threat of sabotage. If the basis for declaring this emergency classification is based on security concerns, then refer to Table 3 prior to taking actions that will cause people to report to the site or change locations on site.
- A8.2** Evacuation of control room anticipated or required with control of shutdown systems established from local stations.

GUIDELINE 3

ALERT

II. Emergency Director Actions

NOTE: THE OPERATIONS SHIFT SUPERINTENDENT SHALL PERFORM THE DUTIES OF THE EMERGENCY DIRECTOR UNTIL HIS ARRIVAL AND ASSUMPTION OF DUTIES.

NOTE: ACTIVATION OF THE TSC AND EOF STAFFS, PER STEPS E1 AND E2, SHOULD BE DONE IN PARALLEL WITH NOTIFICATION OF THE STATE AND LOCAL AGENCIES.

- ___ A. Announce the condition and give needed evacuation instructions over plant public address system.
- ___ B. Evacuate affected areas of the plant as appropriate.
- ___ C. Fill in the ALERT Initial Notification Form (last two pages of this guideline).

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE SHIFT CLERK, BUT MAY BE MADE BY OPERATIONS STAFF, TSC STAFF OR OTHER QUALIFIED PERSON USING THE INITIAL NOTIFICATION FORM (LAST TWO PAGES OF THIS GUIDELINE).

NOTE: INITIAL AND UPGRADE CLASSIFICATIONS AND NOTIFICATIONS SHOULD BE DONE FROM THE CONTROL ROOM OR THE TSC, WITH THE EOF INFORMED AS SOON AS POSSIBLE.

- D. Initial Notifications
 - ___ 1. Within 15 minutes of declaration, verbally notify the state and local agencies using the Alert Initial Notification Form (last two pages of this guideline).
 - ___ 2. Verify notifications complete and documented on the Alert Initial Notification Form (last two pages of this guideline).

SHARED

GUIDELINE 3

ALERT

1. **IF** an ALERT was declared due to radiological effluents greater than or equal to ALERT limits which are 10 times Technical Specification limits, **THEN** enter the following information on the Emergency Notification form (Figure 6, line 7) when making the initial hardcopy notification of the Alert:

a. ODCM site boundary dose rates from EIP-9.5.

and

b. The following note:

"Dose rate at site boundary has been calculated using the ODCM as required by the FNP Technical Specification. EDCM calculation is not appropriate."

E. Emergency Organization Notifications

NOTE: STEPS E.1 AND E.2, NOTIFYING THE TSC AND EOF STAFF WILL NORMALLY BE ACCOMPLISHED BY HAVING THE SHIFT CLERK COORDINATE ACTIVATION OF THE COMMUNITY ALERT NETWORK (CAN) PER FNP-0-EIP-8.3, TABLE 2 AND STEP 11).

- ___ 1. TSC Staff (full activation required initially and then downsize if appropriate per table 2)
- ___ 2. EOF Staff (full staffing required initially and then activate the EOF or downsize staff as appropriate per table 2)
- ___ 3. On-call Emergency Director
- ___ 4. On-call Recovery Manager
- ___ 5. Emergency Support Manager
- ___ 6. Notify Security of Emergency, incoming personnel, access restrictions and to setup the EOF (PAX 4611)

GUIDELINE 3**ALERT****F. Other Notifications**

- 1. NRC (Perform immediately after state notification and within one hour of declaration per Figure 6, side 2)
- 2. Have Regulatory ERDS activated to transmit data to the NRC within one hour of the declaration of the emergency (EIP-8.3, step 10)
- 3. If personnel injury or fire is involved, refer to FNP-0-EIP-11.0 and 13.0 respectively for additional actions and EIP-8.0 steps 5.0 and 6.0 for additional notifications
- 4. U.S. Army EOD group at Fort Benning, GA, if necessary
- 5. Savannah River Operations Office, if necessary

G. In Plant Protective Actions

- 1. Ensure personnel accountability per EIP-10.0, if any areas of the plant were evacuated due to hazardous conditions
- 2. Plan and initiate re-entries per EIP-14.0, if any areas of the plant were evacuated due to hazardous conditions
- 3. Ensure proper Control Room response
- 4. Assign an individual to provide periodic plant status updates
- 5. Assign an individual to maintain a log of important Emergency Director activities
- 6. Assign an individual to keep a record of all off site communications

H. Off Site Support

- 1. Ensure Radiation Monitoring teams have been dispatched per EIP 4.0.
- 2. Provide information to the Recovery Manager for use in press releases and recovery planning

GUIDELINE 3

ALERT

I. Information to Off Site Authorities

- ___ 1. Provide periodic plant status updates, meteorological and dose estimates and release projections based on plant conditions and foreseeable contingencies.

J. Re-Assess plant conditions

- ___ 1. Continue to assess plant and radiological conditions to ensure the correct emergency classification is declared.
- ___ 2. If a higher emergency classification is required immediately go to the appropriate guideline
- ___ 3. If plant and radiological conditions no longer require the current emergency classification downgrade or close out the emergency class using FNP-0-EIP-28.0.

K. Long term staffing

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage

L. Protective action recommendation guidance

NOTE Only the technically based protective actions specified below should be recommended, unless there are obvious relevant factors (e.g., Severe natural phenomena) that probably were not anticipated when the PARs were developed, and that would make the standard PAR recommendations impractical or obviously non-conservative. In such events, the emergency director should use his own judgment as appropriate.

- ___ 1. Protective Action Recommendations are not required. Block A of line 15 on the notification form should be checked.

GUIDELINE 3
ALERT
YELLOW INITIAL NOTIFICATION FORM

1. A This is a Drill B Actual Emergency Initial

2. Site: Farley Nuclear Plant

3. Confirmation Phone Numbers: (334)899-5156 or (334)794-0800 Ext.

5. Emergency Classification: Alert

6. Emergency Declaration At: Time/Date _____ / _____ / _____
(central) MM DD YY

7. Emergency Classification criteria: A1.1 A1.2 A2.1 A2.2 A2.3 A3.1
 A3.2 A4.1 A4.2 A4.3 A4.4 A4.5 A4.6 A5.1 A5.2
 A5.3 A5.4 A5.5 A6.1 A6.2 A6.3 A7.1 A7.2 A7.3
 A7.4 A7.5 A7.6 A7.7 A7.8 A8.1 A8.2

Failed Barriers: RCS Containment Fuel Clad none Heat Removal Sys Inadequate

14. Meteorological Data A Wind Direction (from) _____ B Speed(mph) _____ C ΔT _____

15. Recommended Actions:
 There are no recommended protective actions.

16. Approved By: _____ Emergency Director
(Name) (Title)

- A. ___ Line 1 check box A or B.
- B. ___ Line 3 fill in an extension number that will be staffed.
- C. ___ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- D. ___ Line 7 check the box(es) for the criteria requiring this emergency classification. On the bottom line check the failed barriers or none if no failed barriers exist and check Heat removal Inadequate if appropriate. If additional information is required, list it on a separate page and have it read over the ENN when line 7 is read.
- E. ___ Line 14-enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP.
- F. ___ Line 16, the Emergency Director must sign this form.
- G. ___ Within 15 minutes of declaration time, using the ENN (instructions on following page), contact the state agencies listed below. Enter below the time of the attempted initial ENN contact (transmission time). Enter below the name of the person contacted once obtained. Check the acknowledged box when receipt of message is acknowledged. The table on the next page lists methods of contact.

AORC/Troopers/Hous. Co.	Time _____	Name _____	Acknowledged <input type="checkbox"/>
GEMA/Early County	Time _____	Name _____	Acknowledged <input type="checkbox"/>

If AEMA is not on the ENN, they are not required to be notified.

AEMA	Time _____	Name _____	Acknowledged <input type="checkbox"/>
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- H. ___ Proceed to the following page for the REMAINING NOTIFICATIONS at step I.

**GUIDELINE 3
ALERT
YELLOW INITIAL NOTIFICATION FORM**

- ENN INSTRUCTIONS FOR INITIAL NOTIFICATION**
1. Pickup handset, dial CC9907 to open all speakers, DIAL ** on the ENN, wait 10 seconds, press to talk and announce "This is name/title at Farley Nuclear Plant. Please obtain an ALERT, YELLOW initial notification form and monitor the ENN."
 2. Request a state level agency for Alabama and Georgia and the AEMA acknowledge manning of the ENN per step G on the previous page. Example "AORC at Montgomery EOC are you on the line?"
 3. Pickup handset, DIAL ** on the ENN, wait 10 seconds, press to talk and announce on the ENN "Please prepare to receive an ALERT, YELLOW initial notification message with acknowledgment", then slowly read the ALERT initial notification form over the ENN.
 4. Have the agencies contacted above, acknowledge receipt of the message.
 5. Pickup handset, Dial CC9900 to close all speakers opened in step 1.
 6. If any required agency could not be contacted on the ENN, then use numbers listed below or in FNP-0-EIP-8.3 to contact them by any available means.

NOTIFICATION MEANS (underlined numbers are available 24 hours a day)	
ALABAMA State Agencies in preferred order AORC at Montgomery EOC ENN (11), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery <u>ENN (12), phone (334-242-4378, 4379)</u> AORC at Alabama Forward EOC ENN (13), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY <u>ENN(31), ENN(13), OPX (6621),</u> FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808)	GEORGIA State Agencies in preferred order GEMA at Atlanta EOC <u>ENN (21), OPX (6629), Phone (404-635-7200)</u> FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (912-723-4764, 4826,4956) FAX (8-257-2455) EARLY COUNTY <u>ENN(42) ENN(41) OPX (6622)FAX(8-257-2455)</u> phone(912-723-3577, 3578, 4746, 4826, 4956)
AEMA COURTESY NOTIFICATION ENN (51)	FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) FAX (850-488-7841)

REMAINING NOTIFICATIONS (continued from previous page)

- I _____ Fax a copy of the previous page ALERT YELLOW INITIAL NOTIFICATION FORM to the state of Florida, EOF, and EOC using speed dial #10 or an alternative method of contact that is listed in the table above.
- J _____ Verify the state of Florida has received the FAX using the numbers listed in the table above.
- K _____ Complete Figure 6, side 1, as an initial backup message (check line 1 box C) as soon as possible.
- L _____ Fax Figure 6 side 1, to state and local agencies as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.
- M _____ Provide the information on Figure 6, side 1, to the NRC as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.

GUIDELINE 4**NOUE****I. Criteria for Classification**

The classification of Notification of Unusual Event applies to situations in which events are in process or have occurred which could indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occur.

- (a) A NOTIFICATION OF UNUSUAL EVENT would be required for any plant condition that warrants increased awareness on the part of state and/or local offsite authorities or involve other than normal plant shutdown.

A Notification of Unusual Event would be declared for any of the following:

1.0 RCS FAULT

- N1.1 Failure of a pressurizer safety valve to close.
- N1.2 Failure of the pressurizer power operated relief valve and its remote motor operated isolation valve to close.
- N1.3 Initiation of safety injection either automatically or manually as a result of plant parameters approaching or reaching their setpoint.
- N1.4 Complete loss of forced RCS flow as indicated by RCS flow indicators on all three RCS loops.

2.0 SG FAULT OR RUPTURE

- N2.1 Failure of any steam generator safety valve to close
- N2.2 Failure of any steam generator power operated relief valve to close
- N2.3 Loss of secondary coolant outside containment concurrent with ECCS activation

GUIDELINE 4**NOUE****3.0 DEGRADED CORE/FUEL FAULT**

- N3.1 Indicated subcooling (margin to saturation) decreased below 10°F.
- N3.2 Inadvertent loading of a fuel assembly into an improper position which causes Fq to be greater than the Technical Specification limit.
- N3.3 RCS activity exceeds Tech. Spec. limit that requires shutdown.

4.0 HIGH EFFLUENT

Radiological effluents at the site boundary (combined effluent from both units) in excess of the radiological technical specifications instantaneous limits (based on ODCM) as follows:

- N4.1 Liquids 10CFR20 Appendix B, Table 2 Column 2
- N4.2 Liquids: Dissolved or entrained noble gases 1.0 E-4 $\mu\text{Ci/ml}$
- N4.3 Noble gases (whole body) 5.7E-5 Rem/hr (5.7E-2 mrem/hr)
- N4.4 Noble gases (skin) 3.4E-4 Rem/hr (3.4E-1 mrem/hr)
- N4.5 Airborne radioiodine and particulates other than noble gases:
1.7E-4 Rem/hr (1.7E-1 mrem/hr)

5.0 EQUIPMENT/STRUCTURE FAILURE

- N5.1 Loss of containment integrity requiring shutdown to HOT SHUTDOWN.

6.0 ELECTRICAL/INSTRUMENTATION FAULT

- N6.1 Loss of both trains of offsite power (an unplanned loss of power to the emergency 4160 volt busses F and G from off site sources that are not part of a pre-planned test sequence) (LER #2000-005-00 Unit 1) OR loss of all onsite emergency power (diesel generators and auxiliaries).
- N6.2 Loss of control room indication or annunciation to an extent requiring shutdown.

GUIDELINE 4**NOUE****7.0 SITE HAZARDS**

Natural phenomena being experienced or projected to affect the plant site as follows:

N7.1 Any earthquake.

N7.2 Unusual river water level caused by flood, low water or hurricane surge.

N7.3 Any tornado onsite.

N7.4 Any threatening hurricane.

Hazards experienced onsite or within one mile of the site boundary which could affect plant operations, such as:

N7.5 Aircraft crash.

N7.6 Explosion.

N7.7 Fire affecting a safety related or a non-safety related nuclear process system.

N7.8 Fire or explosion affecting safe shutdown capability.

N7.9 Release of toxic gas.

N7.10 Release of flammable gas.

8.0 SECURITY/EVACUATION

N8.1 Attempted unauthorized entry into a vital area or attempted sabotage of vital equipment. If the basis for declaring this emergency classification is based on security concerns, then refer to table 3 prior to taking actions that will cause people to report to the site or change locations on site.

GUIDELINE 4

NOUE

II. Emergency Director Actions

NOTE: THE OPERATIONS SHIFT SUPERINTENDENT SHALL PERFORM THE DUTIES OF THE EMERGENCY DIRECTOR UNTIL HIS ARRIVAL AND ASSUMPTION OF DUTIES.

Initials

- ___ A. Announce the condition and give needed evacuation instructions over plant public address system.
- ___ B. Evacuate affected areas of the plant as appropriate.
- ___ C. Fill in the NOUE Initial Notification Form (last two pages of this guideline).

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE SHIFT CLERK, BUT MAY BE MADE BY OPERATIONS STAFF, TSC STAFF OR OTHER QUALIFIED PERSON USING THE INITIAL NOTIFICATION FORM (LAST TWO PAGES OF THIS GUIDELINE).

NOTE: INITIAL AND UPGRADE CLASSIFICATIONS AND NOTIFICATIONS SHOULD BE DONE FROM THE CONTROL ROOM OR THE TSC, WITH THE EOF INFORMED AS SOON AS POSSIBLE.

- D. Initial Notifications
 - ___ 1. Within 15 minutes of declaration, verbally notify the state and local agencies using the NOUE Initial Notification Form (last two pages of this guideline).
 - ___ 2. Verify notifications complete and documented on the NOUE Initial Notification Form (last two pages of this guideline).

GUIDELINE 4

NOUE

1. **IF** an NOUE was declared due to radiological effluents greater than or equal to NOUE limits which are Technical Specification limits, **THEN** enter the following information on the Emergency Notification form (Figure 6, line 7) when making the initial hardcopy notification of the NOUE:

a. ODCM site boundary dose rates from EIP-9.5.

and

b. The following note:

"Dose rate at site boundary has been calculated using the ODCM as required by the FNP Technical Specification. EDCM calculation is not appropriate."

E. Emergency Organization Notifications

NOTE: TABLE 2 PROVIDES GUIDANCE AS TO THE REQUIRED LEVEL OF ACTIVATION OF THE TSC AND EOF. LEVEL OF ACTIVATION, IF ANY, IS AT THE DISCRETION OF THE ED/RM. SEE EIP-6/27 FOR GUIDANCE.

- ___ 1. TSC Staff, if activated by the ED
- ___ 2. EOF Staff, if activated by the RM
- ___ 3. On-call Emergency Director
- ___ 4. On-call Recovery Manager
- ___ 5. Emergency Support Manager
- ___ 6. Notify Security of Emergency, incoming personnel and access restrictions (PAX 4611).

F. Other Notifications

- ___ 1. NRC (Perform immediately after state notification and within one hour of declaration per Figure 6, side 2).

GUIDELINE 4

NOUE

- ___ 2. If personnel injury or fire is involved, refer to FNP-0-EIP-11.0 and 13.0 respectively for additional notifications.
- ___ 3. U.S. Army EOD group at Fort Benning, GA, if necessary
- ___ 4. Savannah River Operations Office, if necessary

G. In Plant Protective Actions

- ___ 1. Ensure personnel accountability per EIP-10.0, if any areas of the plant were evacuated due to hazardous conditions.
- ___ 2. Plan and initiate re entries per EIP-14.0, if any areas of the plant were evacuated due to hazardous conditions.
- ___ 3. Ensure proper Control Room response.
- ___ 4. Assign an individual to provide periodic plant status updates.
- ___ 5. Assign an individual to maintain a log of important Emergency Director activities.
- ___ 6. Assign an individual to keep a record of all off site communications.

H. Off- Site Support

- ___ 1. Ensure Radiation Monitoring teams have been dispatched per EIP-4.0.
- ___ 2. Provide information to the Recovery Manager for use in press releases and recovery planning.

I. Information to Off-Site Authorities

- ___ 1. Provide periodic plant status updates, meteorological and dose estimates and release projections based on plant conditions and foreseeable contingencies.

GUIDELINE 4

NOUE

J. Re-Assess plant conditions

- 1. Continue to assess plant and radiological conditions to ensure the correct emergency classification is declared.
- 2. If a higher emergency classification is required immediately go to the appropriate guideline.
- 3. If plant and radiological conditions no longer require the current emergency classification downgrade or close out the emergency class using FNP-0-EIP-28.0.

K. Long term staffing

- 1. Within 8 hours, provide for full TSC and OSC reliefs.
- 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.

L. Protective action recommendation guidance

NOTE Only the technically based protective actions specified below should be recommended, unless there are obvious relevant factors (e.g., severe natural phenomena) that probably were not anticipated when the PARs were developed and that would make the standard PAR recommendations impractical or obviously non-conservative. In such events, the emergency director should use his own judgment as appropriate.

- 1. Protective Action Recommendations are not required. Block A of Line 15 on the notification form should be checked.

GUIDELINE 4
NOTIFICATION OF UNUSUAL EVENT
BLUE INITIAL NOTIFICATION FORM

1. This is a Drill Actual Emergency Initial

2. Site: Farley Nuclear Plant

3. Confirmation Phone Numbers: (334)899-5156 or (334)794-0800 Ext.

5. Emergency Classification:
 Notification Of Unusual Event

6. Emergency Declaration At: Time/Date _____ / _____ / _____
(central) MM DD YY

7. Emergency Classification criteria: N1.1 N1.2 N1.3 N1.4 N2.1 N2.2
 N2.3 N3.1 N3.2 N3.3 N4.1 N4.2 N4.3 N4.4 N4.5
 N5.1 N6.1 N6.2 N7.1 N7.2 N7.3 N7.4 N7.5 N7.6
 N7.7 N7.8 N7.9 N7.10 N8.1

Failed Barriers: RCS Containment Fuel Clad none Heat Removal Sys Inadequate

14. Meteorological Data Wind Direction (from) _____ Speed(mph) _____ ΔT _____

15. Recommended Actions:
 There are no recommended protective actions.

16. Approved By: _____ Emergency Director
(Name) (Title)

- A. _____ Line 1 check box A or B.
- B. _____ Line 3 fill in an extension number that will be staffed.
- C. _____ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- D. _____ Line 7 check the box(es) for the criteria requiring this emergency classification. On the bottom line check the failed barriers or none if no failed barriers exist and check Heat removal Inadequate if appropriate. If additional information is required, list it on a separate page and have it read over the ENN when line 7 is read.
- E. _____ Line 14-enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP.
- F. _____ Line 16, the Emergency Director must sign this form.
- G. _____ Within 15 minutes of declaration time, using the ENN (instructions on following page), contact the state agencies listed below. Enter below the time of the attempted initial ENN contact (transmission time). Enter below the name of the person contacted once obtained. Check the acknowledged box when receipt of message is acknowledged. The table on the next page lists methods of contact

AORC/Troopers/Hous. Co.	Time _____	Name _____	Acknowledged <input type="checkbox"/>
GEMA/Early County	Time _____	Name _____	Acknowledged <input type="checkbox"/>

 If AEMA is not on the ENN, they are not required to be notified.

AEMA	Time _____	Name _____	Acknowledged <input type="checkbox"/>
------	------------	------------	---------------------------------------
- H. _____ Proceed to the following page for the REMAINING NOTIFICATIONS at step I.

GUIDELINE 4
NOTIFICATION OF UNUSUAL EVENT
BLUE INITIAL NOTIFICATION FORM

ENN INSTRUCTIONS FOR INITIAL NOTIFICATION

1. Pickup handset, dial CC9907 to open all speakers, DIAL ** on the ENN, wait 10 seconds, press to talk and announce **“This is name/title at Farley Nuclear Plant. Please obtain a Notification of Unusual Event, BLUE initial notification form and monitor the ENN.”**
2. Request a state level agency for Alabama and Georgia and the AEMA acknowledge manning of the ENN per step G on the previous page. Example **“AORC at Montgomery EOC are you on the line?”**
3. Pickup handset, DIAL ** on the ENN, wait 10 seconds, press to talk and announce on the ENN **“Please prepare to receive a Notification Of Unusual Event, BLUE initial notification message with acknowledgment”**, then slowly read the NOUE initial notification form over the ENN.
4. Have the agencies contacted above, acknowledge receipt of the message.
5. Pickup handset, Dial CC9900 to close all speakers opened in step 1.
6. If any required agency could not be contacted on the ENN, then use numbers listed below or in FNP-0-EIP-8.3 to contact them by any available means.

NOTIFICATION MEANS (underlined numbers are available 24 hours a day)

<p>ALABAMA State Agencies in preferred order AORC at Montgomery EOC ENN (11), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery ENN (12), phone (334-242-4378, 4379) AORC at Alabama Forward EOC ENN (13), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY ENN(31), ENN(13), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808)</p>	<p>GEORGIA State Agencies in preferred order GEMA at Atlanta EOC ENN (21), OPX (6629), Phone (404-635-7200) FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (912-723-4764, 4826,4956) FAX (8-257-2455) EARLY COUNTY ENN(42) ENN(41) OPX (6622)FAX(8-257-2455) phone(912-723-3577, 3578, 4746, 4826, 4956)</p>
<p>AEMA COURTESY NOTIFICATION ENN (51)</p>	<p>FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) FAX (850-488-7841)</p>

REMAINING NOTIFICATIONS (continued from previous page)

- I _____ Fax a copy of the previous page NOUE BLUE INITIAL NOTIFICATION FORM to the state of Florida, EOF, and EOC using speed dial #10 or an alternative method of contact that is listed in the table above.
- J _____ Verify the state of Florida has received the FAX using the numbers listed in the table above.
- K _____ Complete Figure 6, side 1, as an initial backup message (check line 1 box C) as soon as possible.
- L _____ Fax Figure 6, side 1, to state and local agencies as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.
- M _____ Provide the information on Figure 6, side 1, to the NRC as soon as possible, but within one hour of the declaration per the instructions on Figure 6, side 2.

TABLE 1**REFERENCES**

- Joseph M. Farley Nuclear Plant Emergency Plan
- FNP-0-RCP-25, Health Physics Activities During a Radiological Accident
- FNP-0-EIP-29, Long Term Dose Assessment
- FNP-0-EIP-20, Chemistry and Environmental Support to the Emergency Plan
- FNP-0-M-007, Emergency Dose Calculation Method
- FNP-0-M-011, Offsite Dose Calculation Manual
- EPA "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents"
- NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"
- FNP-0-CCP-641, "Operation of the Plant Vent Stack Monitoring System"
- NT-86-0014, Gaseous Releases, Emergency Classifications
- NT-87-0543, Protective Action Recommendation Policy
- ALA 88-694, Westinghouse "Potential Radiological Impact of Steam Generator Tube Uncover"
- FNP-0-CCP-1300, Chemistry and Environmental Activities During a Radiological Accident
- SCS letter File: ENG 15 94-0466 Log: FP 94-0364, Containment Dose R-27 to DEI Conversion

TABLE 2

EMERGENCY FACILITY ACTIVATION

	Unusual Event	Alert	Site Area Emergency	General
Technical Support Center	*	Activate #	Activate #	Activate
Operations Support Center	*	Activate #	Activate #	Activate
Emergency Operations Facility	**	***	Activate #	Activate
Emergency Operations Center	**	***	Activate #	Activate
Public Information Corporate Offices	**	***	Activate #	Activate
News Media Center ##	N/A	****	***	Activate

NOTE: (It is recommended that the full TSC and EOF staffs be called in at the ALERT level. After evaluating plant conditions, staff may be released below a GENERAL EMERGENCY (at the discretion of the RM/ED).)

- * NO ACTION, STANDBY OR ACTIVATE AT THE DISCRETION OF THE EMERGENCY DIRECTOR
- ** NO ACTION, STANDBY OR ACTIVATE AT THE DISCRETION OF THE RECOVERY MANAGER
- *** STANDBY OR ACTIVATE AT THE DISCRETION OF THE RECOVERY MANAGER
- **** ACTIVATION DEPENDENT ON LEVEL OF MEDIA INTEREST OR EOF ACTIVATION
- # FOLLOWING FULL ACTIVATION, FACILITY STAFFING WILL BE TO THE EXTENT DEEMED NECESSARY BY THE EMERGENCY DIRECTOR AND RECOVERY MANAGER
- ## AUTOMATICALLY ACTIVATED UPON EOF ACTIVATION

TABLE 3**CONSIDERATIONS FOR EMERGENCY CLASSIFICATION BASED
ON SECURITY EVENTS**

IF THERE IS A POTENTIAL HAZARD TO THE SAFETY OF PERSONNEL DUE TO THE SECURITY EVENT THAT IS IN PROGRESS, THE PROVISIONS OF THE EIPs MAY HAVE TO BE MODIFIED TO ENSURE THAT PLANT PERSONNEL ARE PROTECTED. CONSIDERATION SHOULD BE GIVEN TO THE SAFETY OF PERSONNEL WHO ARE ON SITE AND THOSE WHO WILL BE REPORTING TO THE SITE. THE FOLLOWING LIST DESCRIBES SOME OF THE ACTIONS THAT MIGHT BE DIFFERENT:

1. Do not delay declaring the emergency, some specific actions in the guidelines may have to be altered.
2. Contact security for recommendations to determine hazardous areas prior to taking any actions that would move people to different areas of the plant.
3. Ensure that control room or other supervisory personnel do not dispatch personnel to areas of the plant until it has been determined that those areas are safe.
4. If activating the plant emergency alarm (PEA) would put personnel at risk while proceeding to assembly areas, do not activate the alarm. In lieu of the PEA, consider making an appropriate announcement over the plant page with specific instructions such as to remain inside buildings, evacuate specific areas or other appropriate announcements based on security recommendations.
5. If having the TSC and EOF staffs report to the plant site would put them at risk, consider a manual callout of a minimum staff with specific instructions identifying where to report in lieu of using the CAN to activate.
6. Consider use of alternate facilities for the TSC and EOF staffs.
7. If the CAN is used to activate the TSC and EOF staffs, have the security force member at the plant access direct them to specific locations as they arrive on site.
8. After security reports that the security hazards have been eliminated, return to full implementation of the EIPs as appropriate.

TABLE 4**INFORMATION LIKELY TO BE REQUESTED BY THE NRC IF AN EMERGENCY IS DECLARED
(NRC INFORMATION NOTICE 98-08)**

1. Is there any change to the classification of the event? If so, what is the reason?
2. What is the ongoing/imminent damage to the facility, including affected equipment and safety features?
3. Have toxic or radiological releases occurred or been projected, including changes in the release rate? If so, what is the projected onsite and offsite releases and what is the basis of assessment?
4. What are the health effect/consequences to onsite/offsite people? How many onsite/offsite people are/will be affected and to what extent?
5. Is the event under control? When was control established, or what is the planned action to bring the event under control? What is the mitigative action underway or planned?
6. What onsite protective measures have been taken or planned?
7. What offsite protective actions have been recommended to state/local officials?
8. What is the status of State/local/other Federal agencies' responses, if known?
9. If applicable, what is the status of public information activities, such as alarm, broadcast, or press releases (regulatee/state/local/other federal agencies)? Has a Joint Information Center (News Media Center) been activated?

10 MILE EMERGENCY PLANNING ZONE

The boxes in each quadrant and at the top of the drawing, represent the time in minutes that it would take to evacuate the zones in that quadrant during a **WD** (week day), **WN** (week night), **WE** (week end) and **AW** (adverse weather conditions). The time includes a 15 minute allowance for notification.

Zones	WD	WN	WE	AW
2 Mile Zone A	95	80	90	95
10 Mile All Sectors	140	115	115	150

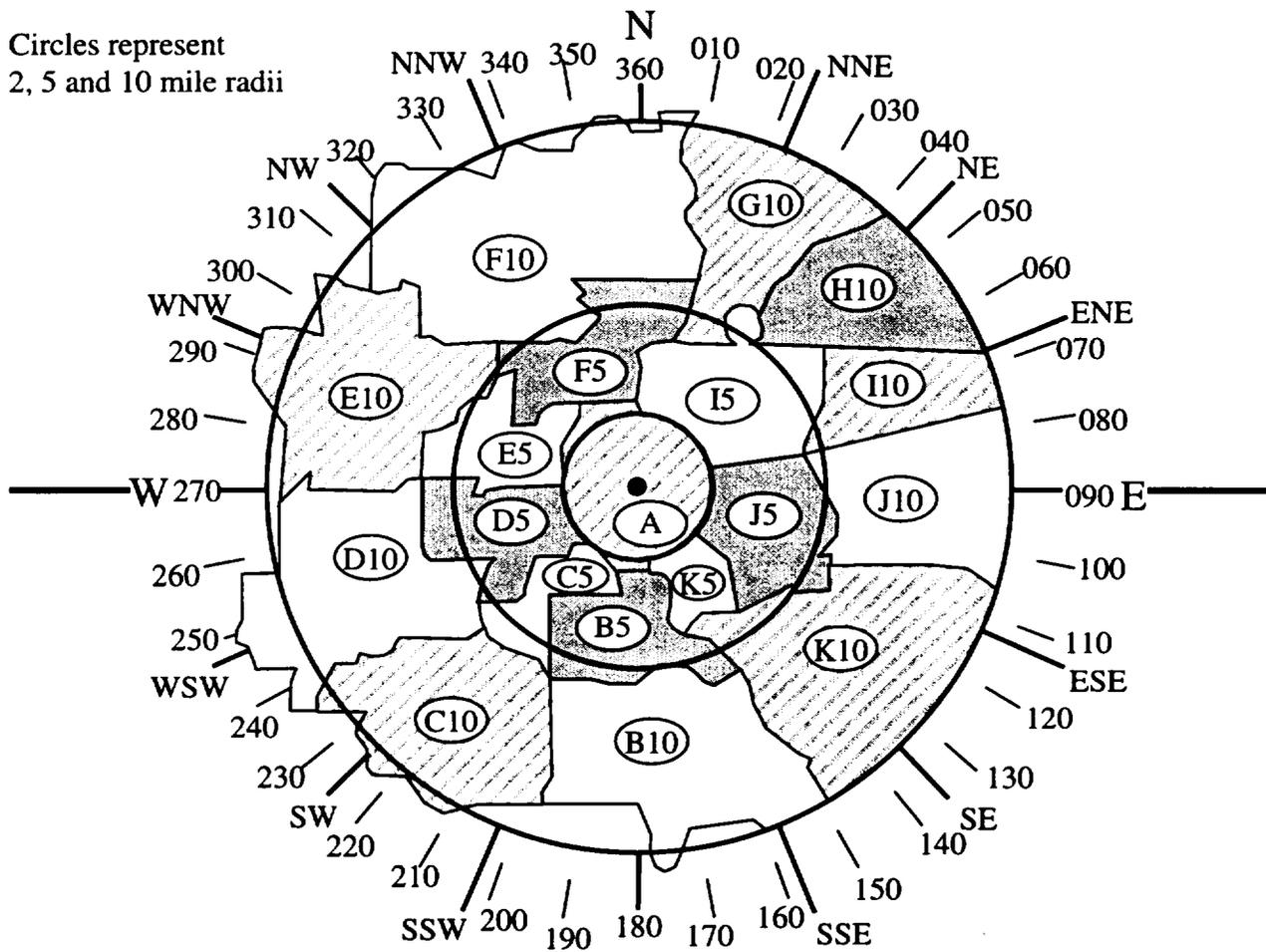
270-360 Quadrant, 100%
Evacuation Times

Zones	WD	WN	WE	AW
5 Mile	105	90	95	110
10 mile	115	100	105	120

000-090 Quadrant, 100%
Evacuation Times

Zones	WD	WN	WE	AW
5 Mile	105	95	100	110
10 mile	110	105	110	120

Circles represent
2, 5 and 10 mile radii



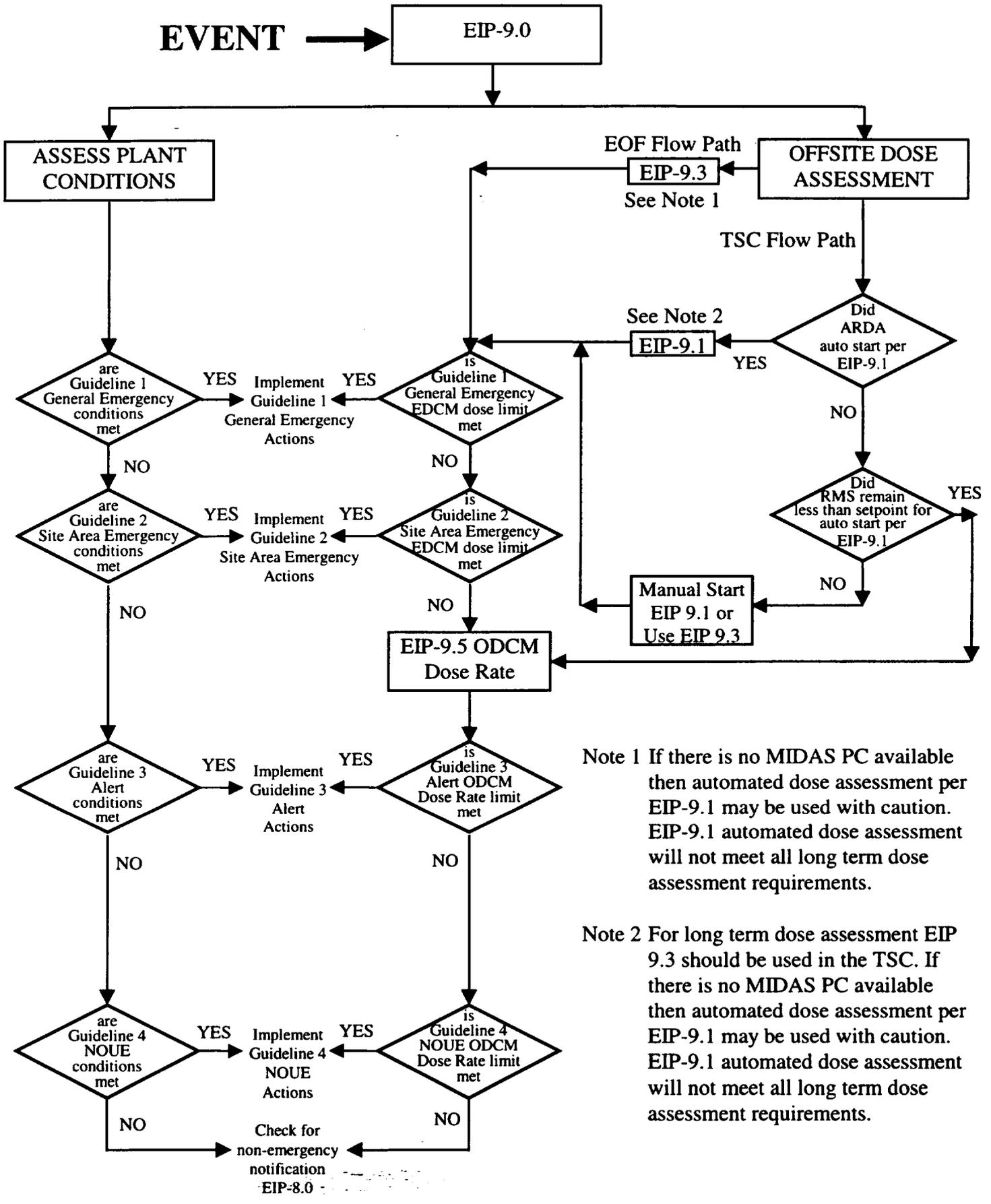
180-270 Quadrant, 100%
Evacuation Times

Zones	WD	WN	WE	AW
5 Mile	100	95	95	105
10 mile	140	110	115	150

090-180 Quadrant, 100%
Evacuation Times

Zones	WD	WN	WE	AW
5 Mile	105	95	100	110
10 mile	110	100	105	115

FIGURE 1



Note 1 If there is no MIDAS PC available then automated dose assessment per EIP-9.1 may be used with caution. EIP-9.1 automated dose assessment will not meet all long term dose assessment requirements.

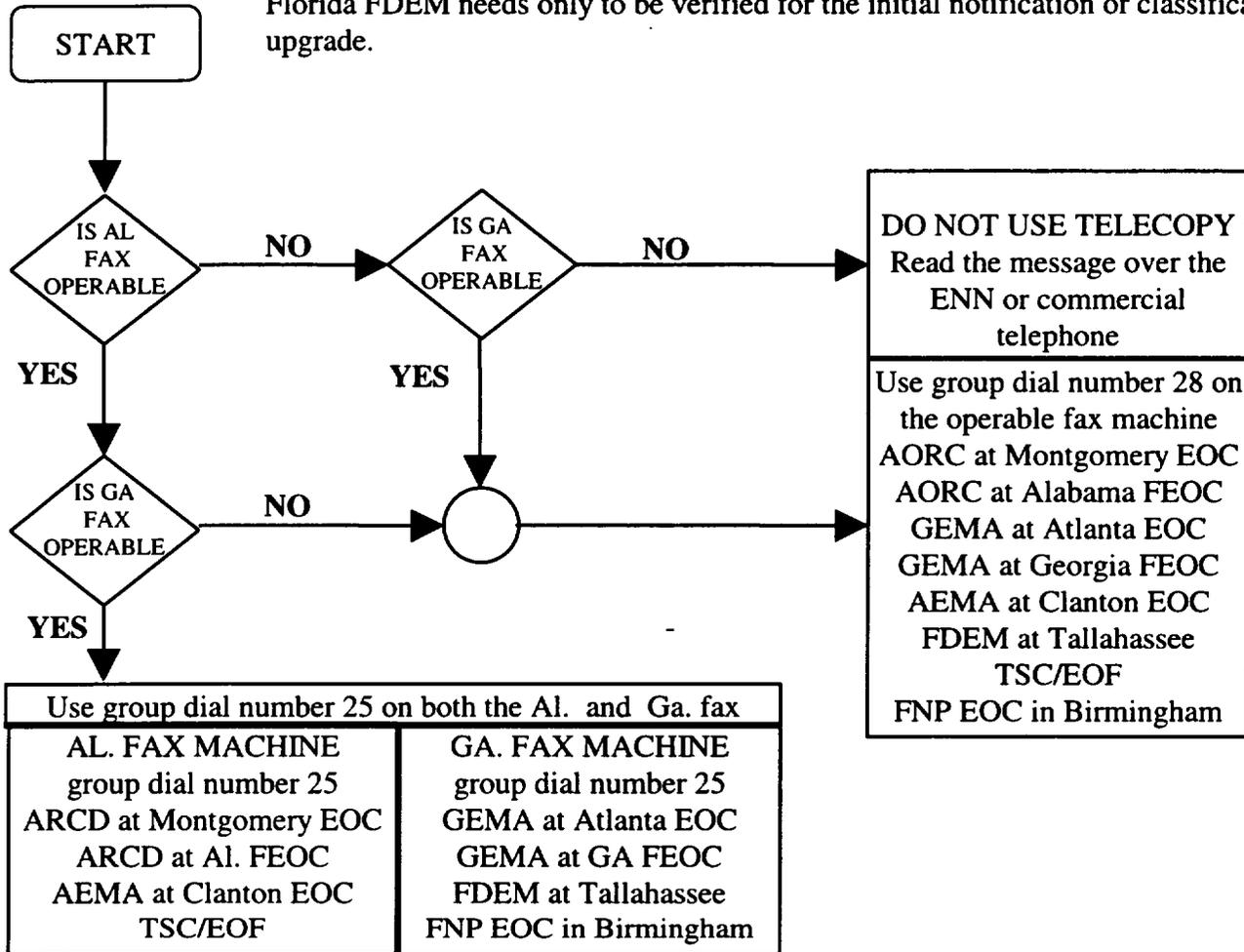
Note 2 For long term dose assessment EIP 9.3 should be used in the TSC. If there is no MIDAS PC available then automated dose assessment per EIP-9.1 may be used with caution. EIP-9.1 automated dose assessment will not meet all long term dose assessment requirements.

FIGURE 2

TELECOPY GROUP DIAL NUMBERS

Telecopy (fax) the initial or followup emergency notification form (Fig. 6) to all of the locations using the group dial numbers listed on the below flow chart. When the activity report is received retransmit the form to any location that did not receive the form using the individual speed dial numbers listed below. Verify that the form has been received at all locations through the ENN, OPX or commercial phone number. The telecopy to the

Florida FDEM needs only to be verified for the initial notification or classification upgrade.



Refer to FNP-0-EIP-8.1 or FIG. 6 for OPX/commercial numbers.

LOCATION	FAX IND SPEED DIAL	ENN PHONE NUMBER
Alabama Office of Radiation Control At Montgomery EOC	1	11
Alabama Office of Radiation Control At Alabama Forward EOC	3	13
Alabama Emergency Management Agency at Clanton EOC	7	51
FNP TSC	5	62
FNP EOF (from opposite location)	5	63
Georgia Emergency Management Agency at Atlanta EOC	2	21
Georgia Emergency Management Agency at Georgia Forward EOC	4	22
Florida Department of Emergency Management at Tallahassee	8	none
FNP EOC in Birmingham	6	65

FIGURE 3

FIGURE 4
THIS FIGURE HAS BEEN DELETED

FIGURE 5
THIS FIGURE HAS BEEN DELETED

EMERGENCY NOTIFICATION

1. This is a Drill Actual Emergency Initial Follow-up* Message Number _____

2. Site: Farley Nuclear Plant Unit: _____ Reported By: _____

3. Transmittal Time/Date: _____ / _____ / _____ Confirmation Phone Numbers: (334)899-5156 or (334)794-0800 Ext. _____
(central) mm dd yy

Telecopy Phone Number: (205) 257-1155 (205) 257-1035 _____
TSC EOF Other

4. Authentication (if required): N/A N/A
(Number) (Codeword)

5. Emergency Classification:
 Notification Of Unusual Event Alert Site Area Emergency General Emergency

6. Emergency Declaration At: Termination At: Time/Date _____ / _____ / _____ (If B go to item 16)
(central) mm dd yy

7. Emergency Description/Remarks: _____

Problems Include: RCS Leaking Containment Leaking Fuel Damage Indicated Heat Removal Systems Inadequate Additional comments on following page

8. Plant Condition: Improving Stable Degrading RMTs Dispatched Site Evacuation

9. Reactor Status: Shutdown Time/Date: _____ / _____ / _____ _____ % Power
(central) mm dd yy

10. Emergency Releases:
 None (go to item 14) Potential (go to item 14) Is Occurring Has Occurred

11. Type of Release Ground Level Mixed Mode
 Airborne: Started: _____ / _____ / _____ Stopped: _____ / _____ / _____
Time (central) Date Time (central) Date
 Liquid: Started: _____ / _____ / _____ Stopped: _____ / _____ / _____
Time (central) Date Time (central) Date

12. Release Magnitude μ Curie per Sec. Curies Tech. Specification Limits Below Above
 Noble Gases Iodines
 Particulates Other

13. Estimate Of Projected Off Site Dose New Unchanged Estimated Duration: _____ Hrs.
TEDE (mrem) Thyroid CDE (mrem)
Site Boundary _____ _____
2 miles _____ _____
5 miles _____ _____
10 miles _____ _____

14. Meteorological Data Wind Direction (from) _____ ° Speed(mph) _____
 Stability Class _____ Precipitation (type) _____

15. Actions:
 There are no recommended protective actions.
 We would like to discuss recommended protective actions.
 Evacuate and control access in down wind zone(s) _____
 Shelter and control access in down wind zone(s) _____
 In all affected areas: Monitor environmental radiation levels, locate and evacuate hot spots and implement control and possible confiscation of food and water supplies and consider evacuation of children and pregnant women.
 Other _____

16. Approved By: _____ Time/Date _____ / _____ / _____
(Name) (Title) (central) mm dd yy

* If items 8 - 14 have not changed, only items 1 - 7 and 15 - 16 are required to be completed

COMMUNICATIONS MEANS

DO NOT TELECOPY THIS SIDE

17.0 For initial and upgrade declarations only, Notify NRC Headquarters. Read side one of this form. Immediately after State Notification, within one hour of Declaration.

- ENS (301-816-5100; 301-951-0550; 301-415-0550)
- Commercial (1-301-816-5100; 1-301-951-0550; 1-301-415-0550 Date/Time)

Person contacted	date	time

18.0 For initial, upgrade and follow-up notifications, fax figure 6 side 1 to state, local and company agencies using the speed dial button determined in figure 3 as soon as possible. For initial and upgrade notifications fax within one hour of declaration.

19.0 Verify that the following agencies received the fax using the ENN or other numbers listed below

Person Contacted	Date/Time
------------------	-----------

	AORC at Montgomery EOC
	AORC at Alabama FEOC (Houston County)
	GEMA at Atlanta EOC
	GEMA at Georgia FEOC (Early County)
	AEMA at Clanton EOC
	FDEM at Tallahassee
	TSC/EOF
	FNP EOC in Birmingham

NOTIFICATION MEANS (underlined numbers are available 24 hours a day)	
<p>ALABAMA State Agencies in preferred order AORC at Montgomery EOC ENN (11), OPX (6628), phone (334-242-4378) FAX (334-264-4396)</p> <p>State Troopers in Montgomery ENN (12), phone (334-242-4378, 4379)</p> <p>AORC at Alabama Forward EOC ENN (13), OPX 6621), phone (334-793-1565) FAX (8-257-1535)</p> <p>HOUSTON COUNTY ENN(31), ENN(13), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808)</p> <p>AEMA COURTESY NOTIFICATION ENN (51)</p>	<p>GEORGIA State Agencies in preferred order GEMA at Atlanta EOC ENN (21), OPX (6629), Phone (404-635-7200) FAX (404-627-4850)</p> <p>GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (912-723-4764, 4826,4956) FAX (8-257-2455)</p> <p>EARLY COUNTY ENN(42) ENN(41) OPX (6622)FAX(8-257-2455) phone(912-723-3577, 3578, 4746, 4826, 4956)</p> <p>FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) FAX (850-488-7841)</p>

Dose Equivalent Iodine Estimation

The below graph and table can be used to estimate if dose equivalent iodine (DEI) is above 300 microcuries per gram. When using this figure the following rules must be used:

1. The only radiation monitors that can be used to enter the graph or table are R-27A or B.
2. The leak rate is assumed to be constant for the time period specified.
3. The bottom of the scale for the R-27 monitors is 1 REM/hr.
4. Any R-27 reading greater than 1 REM/hr for a leak rate of 50 gpm or less is an indication of DEI being greater than or equal to 300 microcuries per gram.
5. Enter the graph with the R-27 reading and the length of time that the leak has been in progress. If the intersection of R-27 and time is above and to the left of the curve for the specific leak rate the DEI is likely to be greater than 300 microcuries per gram.
6. Enter the table with the number of minutes since the start of the leak and the leak rate. If the actual R-27 dose rate is above the value listed in the table the DEI is likely to be greater than 300 microcuries per gram.

	TIME (MIN)	5 MIN	10 MIN	30 MIN	60 MIN	120 MIN	180 MIN	240 MIN
LEAK RATE	1000	1.66	3.1	7.41	11.9	18.1	22.3	25
[GPM]	500		1.55	3.7	5.93	9.06	11.1	12.5
	100				1.19	1.81	2.23	2.5

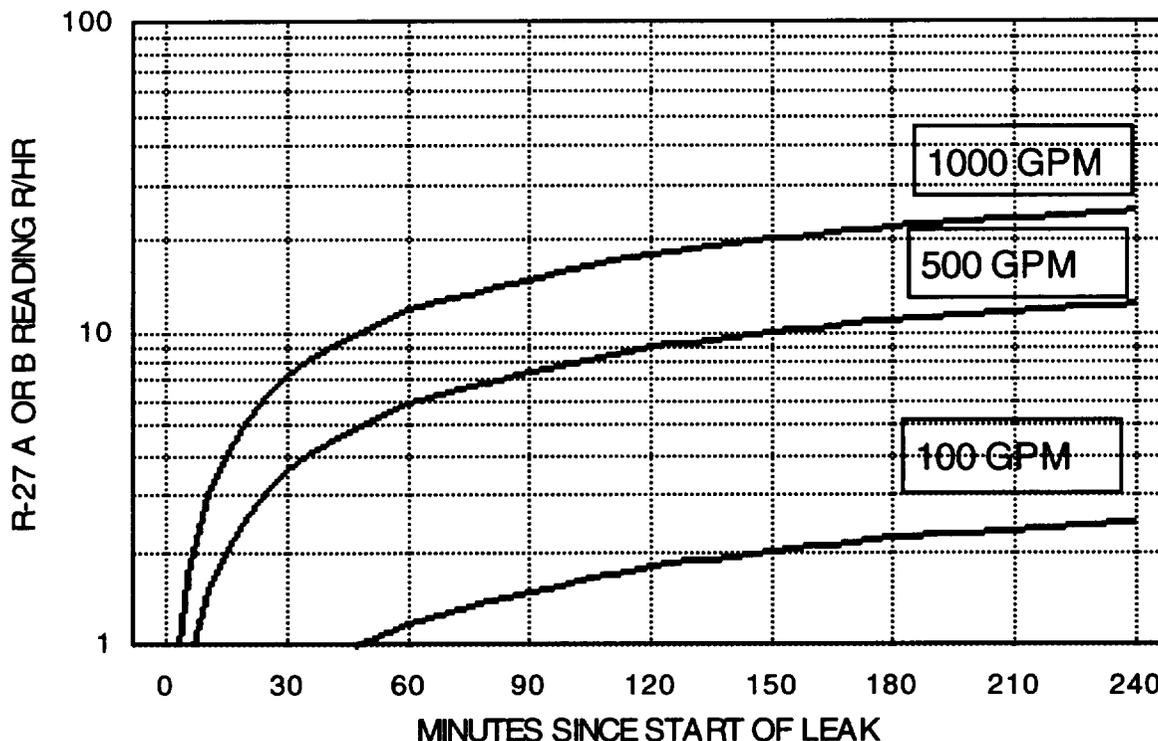


FIGURE 8
REVISION 46

FARLEY NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE 7.0
FNP-0-EIP-7.0

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SECURITY SUPPORT TO THE EMERGENCY PLAN

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PROCEDURE USAGE REQUIREMENTS per FNP-0-AP-6	SECTIONS
Continuous Use	
Reference Use	
Information Use	ALL

Approved:



 Nuclear Plant General Manager

Date Issued 9-6-00

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SECURITY SUPPORT TO THE EMERGENCY PLAN**1.0 Purpose**

This procedure delineates the responsibilities of the Security group and the security actions to be taken in support of the Farley Nuclear Plant (FNP) Emergency Plan.

2.0 References

See Table 1.

3.0 General

3.1 The primary objective of the security force during the various emergency conditions is to maintain plant security, to provide escort service for offsite emergency personnel and vehicles to facilitate their expeditious arrival at the emergency scene, to assist in evacuation of buildings, structures, or the plant site as necessary, to assist in establishing personnel accountability, call out the on-call ERO staff, and set up the Emergency Operations Facility (EOF) if required.

3.2 The safeguards effectiveness of FNP Security shall not be degraded during drills. During non-emergency conditions (to include plant drills), all persons, vehicles, hand carried items, packages and materials shall be searched prior to entering a protected area (PA). During non-emergency conditions (to include plant drills), all persons entering a protected area shall be badged in accordance with existing access control procedures.

During actual emergency conditions, identified emergency response individuals (to include bona fide federal, state, and local law enforcement agency personnel on official business) shall be exempted from the search and badging requirements that might impede their timely response to the emergency.

3.3 Radio use. During an emergency which requires that Radiation Monitoring Teams (RMTs) be dispatched into the environment, the Health Physics Manager will be allowed to use the two-way radio in the Central Alarm Station (CAS) to communicate with the RMTs to such extent that it does not interfere with the execution of the security alarm response function.

NOTE: ACTIVITIES SPECIFIED BELOW ARE NOT REQUIRED TO BE PERFORMED IN THE ORDER SPECIFIED.

4.0 Personnel Emergency

- 4.1 Contact the Control Room to determine the nature of injuries, number of injured persons, access control requirements and whether or not radiation or contamination is a factor.
- 4.2 Plant Emergency Vehicle (PEV). If the nature of the emergency is such that the injured person(s) can be safely transported in the PEV, the control room will notify the Security Shift Foreman (SSF) or designee to have the PEV proceed to the scene of the accident. If the injured persons are located inside the protected area (PA) the motor patrol will be notified by the SSF to proceed to the appropriate gate, ensuring that the gate is opened to expedite the entrance and exit of the PEV from the PA.
- 4.3 Local Ambulance Service. If the number of injured persons is such that outside assistance from local ambulance service is requested by the Emergency Director (ED), an SFM will be dispatched to the plant site access point to escort ambulance(s) to the location of injured persons.
- 4.4 Ambulance Kit. Security personnel will provide an ambulance kit, located in the HVAC room of the CSC, to ambulance personnel arriving on site, if contamination is involved.
- 4.5 Maintain security of PEV at the hospital. Prevent unauthorized personnel from approaching the PEV to preclude possible contamination by radioactive material.

5.0 Notification of Unusual Event (NOUE)

- 5.1 Security Group support during a NOUE shall be determined by the nature of the condition which precipitated the event.
- 5.2 Attempted sabotage. In the event a NOUE is caused by attempted sabotage of vital equipment or attempted unauthorized entry into a vital area (VA), initiate the appropriate Contingency Plan implementing procedures.
- 5.3 Other Conditions. In the event a NOUE is declared due to other conditions such as severe weather, flood conditions, or release of toxic or noxious gas, Security support shall normally consist of the following actions:
 - 5.3.1 Establish access control measures to the affected area.
 - 5.3.2 Provide escorts for offsite emergency support personnel and vehicles.

- 5.3.3 Assist in evacuation of personnel from the PA and the Controlled Area (CA) if directed by the ED.
- 5.3.4 Call out the on-call Emergency Response Organization per FNP-0-EIP-8.3 as directed by the Emergency Director.

6.0 Alert

- 6.1 During an ALERT, Security Group support shall be determined by the nature of the condition which precipitated the ALERT.
- 6.2 In the event an ALERT is caused by attempted sabotage of vital equipment or attempted unauthorized entry into a vital area (VA), initiate the appropriate Contingency Plan implementing procedures.
- 6.3 In the event an ALERT is declared due to other conditions such as severe weather, flood conditions or release of toxic or noxious gas, security support shall normally consist of the following actions:
 - 6.3.1 Establish access control measures to the affected area.
 - 6.3.2 Provide escorts for offsite emergency support personnel and vehicles.
 - 6.3.3 Assist in evacuation of personnel from the PA and the CA, if directed by the ED.
 - 6.3.4 Call out the on-call Emergency Response Organization per FNP-0-EIP-8.3 as directed by the Emergency Director.
- 6.4 When notified of an ALERT classification, the Security Group will dispatch one SFM to the EOF with the EOF keys that are located in the Central Security Control (CSC) and set up the EOF per FNP-0-EIP-27.0.

7.0 Site Area Emergency

- 7.1 Evacuate non-essential personnel from the plant site after survey by Health Physics and release by the ED.
- 7.2 In the event that the Plant Emergency Alarm is sounded or a General Evacuation is announced on the public address system, Security will activate motorized patrols with public address systems to tour the roads, and physically enter buildings (Support Building, Westinghouse Site Support Office, OPS Label Shop, Support Building Trailer, Warehouse Office Area, SNC Garage, Fabrication Shop and Complex 3) (see Figure 2) within the owner-controlled area (OCA), to inform all personnel outside the areas covered by the fixed position public address system

of the need to report to their designated assembly areas. They will provide or assure transportation as necessary.

- 7.3 Assist in establishing personnel accountability per FNP-0-EIP-10.0.
- 7.4 Establish access control with approval by the ED to the plant site via the Highway 95 gate with the lowest radiation level (if significant). SFMs posted at access roads on Highway 95 will maintain a log of all persons entering or exiting the OCA. Such information shall be recorded on Controlled Area Logs (Figure 1). It is understood that initial evacuation of non-essential personnel may proceed prior to implementation of access control measures.
- 7.5 When notified of a SITE AREA EMERGENCY classification, the Security Group will dispatch one SFM to the EOF with the EOF keys that are located in the CSC and set up the EOF per FNP-0-EIP-27.0.
- 7.6 Provide escort service for offsite emergency personnel and vehicles.

NOTE: ONLY DOSIMETRY DEVICES OBTAINED FROM EOF, EMERGENCY PLANNING STORAGE SHOULD BE ISSUED TO EMERGENCY PERSONNEL. DOSIMETRY DEVICES USED FOR TRAINING PURPOSES SHOULD NOT BE ISSUED FOR USE.

- 7.7 Issue Dosimetry. In the event that contamination by radioactive material is a factor and an HP Tech is not present at the EOF, Security Group personnel shall, upon request of the Environmental Supervisor, issue appropriate dosimetry devices to arriving offsite emergency personnel and personnel in the EOF.
 - 7.8 Issue Equipment. In the event that contamination by radioactive material is a factor and a HP Tech is not present, Security Group personnel shall issue appropriate equipment as directed by the HP Manager from the EOF to arriving offsite emergency personnel.
 - 7.9 For severe natural phenomena or other hazards, perform the actions described in step 5.3.
 - 7.10 Call out the on-call Emergency Response Organization per FNP-0-EIP-8.3 as directed by the Emergency Director.
- 8.0 General Emergency
- 8.1 Evacuate nonessential personnel from the plant site after survey by Health Physics and release by the ED.

- 8.2 Plant Emergency Alarm. In the event that the Plant Emergency Alarm is sounded, Security will activate motorized patrols with public address systems to tour the roads, and physically enter buildings (Support Building, Westinghouse Site Support Office, OPS Label Shop, Support Building Trailer, Warehouse Office Area, Fabrication Shop, SNC Garage and Complex 3) (see figure 2) within the owner-controlled area (OCA), to inform all personnel outside the areas covered by the fixed position public address system of the need to report to their designated assembly areas. They will provide or assure transportation as necessary.
- 8.3 Assist in establishing personnel accountability, per FNP-0-EIP-10.0.
- 8.4 Establish access control, with approval by the ED, to the plant site via the Highway 95 gate with the lowest radiation level (if significant). SFMs posted at access roads on Highway 95 will maintain a log of all persons entering or exiting the OCA. Such information shall be recorded on Controlled Area Logs (Figure 1). It is understood that initial evacuation of non-essential personnel may proceed prior to implementation of access control measures.
- 8.5 Provide escort service for offsite emergency personnel and vehicles.

NOTE: ONLY DOSIMETRY DEVICES OBTAINED FROM EOF, EMERGENCY PLANNING STORAGE SHOULD BE ISSUED TO EMERGENCY PERSONNEL. DOSIMETRY DEVICES USED FOR TRAINING PURPOSES SHOULD NOT BE ISSUED FOR USE.

- 8.6 Issue Dosimetry. In the event that contamination by radioactive material is a factor and an HP Tech is not present at the EOF, Security Group personnel shall, upon request of the Environmental Supervisor, issue appropriate dosimetry devices to arriving offsite emergency personnel and EOF staff.
- 8.7 Issue Equipment. In the event that contamination by radioactive material is a factor and a HP Tech is not present, Security Group personnel shall issue appropriate equipment as directed by the HP Manager from the EOF to arriving offsite emergency personnel.
- 8.8 For severe natural phenomena or other hazards, perform the actions described in Step 5.3.
- 8.9 Recall off-duty Security personnel as necessary to maintain plant security.
- 8.10 PAX Operator. During a General Emergency, the PAX Operator function will normally be maintained by the Security Group at CSC. If the CSC must be evacuated, a member of the Security Group at the Emergency Operations Facility Room 106 will carry out this function.

8.11 When notified of a GENERAL EMERGENCY classification, the Security Group will dispatch one SFM to the EOF with the EOF keys that are located in the CSC and set up the EOF per FNP-0-EIP-27.0.

8.12 Call out the on-call Emergency Response Organization per FNP-0-EIP-8.3 as directed by the Emergency Director.

9.0 EOF Setup

9.1 At the Alert, Site Area Emergency, or General Emergency declaration, the EOF will normally be set up. One SFM will be dispatched to the EOF as soon as any one of the above emergency classifications is declared, to start EOF setup per FNP-0-EIP-27.0.

10.0 EOF Access Control

10.1 During EOF set-up, EOF staff will be arriving. The SFMs involved in the set-up should, as they see people arriving, ensure that the arrivals are company employees. This can be accomplished by observing badges or personnel recognition of the individuals. These company employees are not required to be logged in and out of the EOF. This function of access control should not interfere with the EOF set-up.

10.2 When access control is established in the EOF, company employees (as verified in the previous step) with valid business in the EOF are free to move in and out of the EOF as required to perform their job function. These company employees are not required to be logged in and out of the EOF on figure 1. EOF staff will be issued a name badge and sign in on figure 3 as soon as is practical.

10.3 Representatives of government agencies with valid identification will be logged in to the EOF on the Controlled Area Log, Figure 1, and be issued a name badge. The Recovery Manager Assistant will be informed at the next opportunity of the arrival of these individuals.

10.4 Other individuals will require permission of the Recovery Manager or the RM Assistant prior to entering the EOF. After permission is obtained, these individuals will be logged in to the EOF on the Controlled Area Log, figure 1, and be issued a name badge.

10.5 Dosimetry is not required to be issued unless the radiological conditions warrant it. The Dose Assessment Director, the HP Manager, or the Technical Manager will make the decision as to when dosimetry is required. When the decision is made to wear dosimetry, the following guidelines should be used:

- Personnel arriving at the EOF will be issued dosimetry upon their arrival

- For personnel already in the EOF, the Access Control SFM should deliver Dosimetry to all individuals
- 10.6 The Access Control SFM should normally remain in the vicinity of the Access Control table. He may, however, move about freely in Room 106, as necessary to perform duties. In the event that the SFM has to leave Room 106, the RM Assistant should be informed.
- 10.7 After EOF setup has been completed and at shift changes the SFM should complete Figure 3 and provide it to the Recovery Manager Assistant.
- 10.8 The Access Control SFM reports to the RM Assistant in the EOF for administrative control.
- 10.9 In the event that accountability is required after EOF setup has been started the SFM responsible for access control will determine if anyone is missing from the EOF staff that is already on site. FNP-0-EIP-10.0 and figures 1 and 3 may be used as an aid in performing this function. The accountability information should be provided to the RMA or the CSC directly if the RMA is not yet in the EOF.
- 11.0 At the Controls Area Accountability
- 11.1 In addition to the other accountability requirements of FNP-0-EIP-10.0, the accountability for the TSC and the At-The-Controls Area of the Control Room will be performed by a Security Force Member, per FNP-0-EIP-10.0.

SHARED

REFERENCES

Joseph M. Farley Nuclear Plant Emergency Plan

Joseph M. Farley Nuclear Plant Security Plan

FNP-0-EIP-9.0, Emergency Classification And Actions

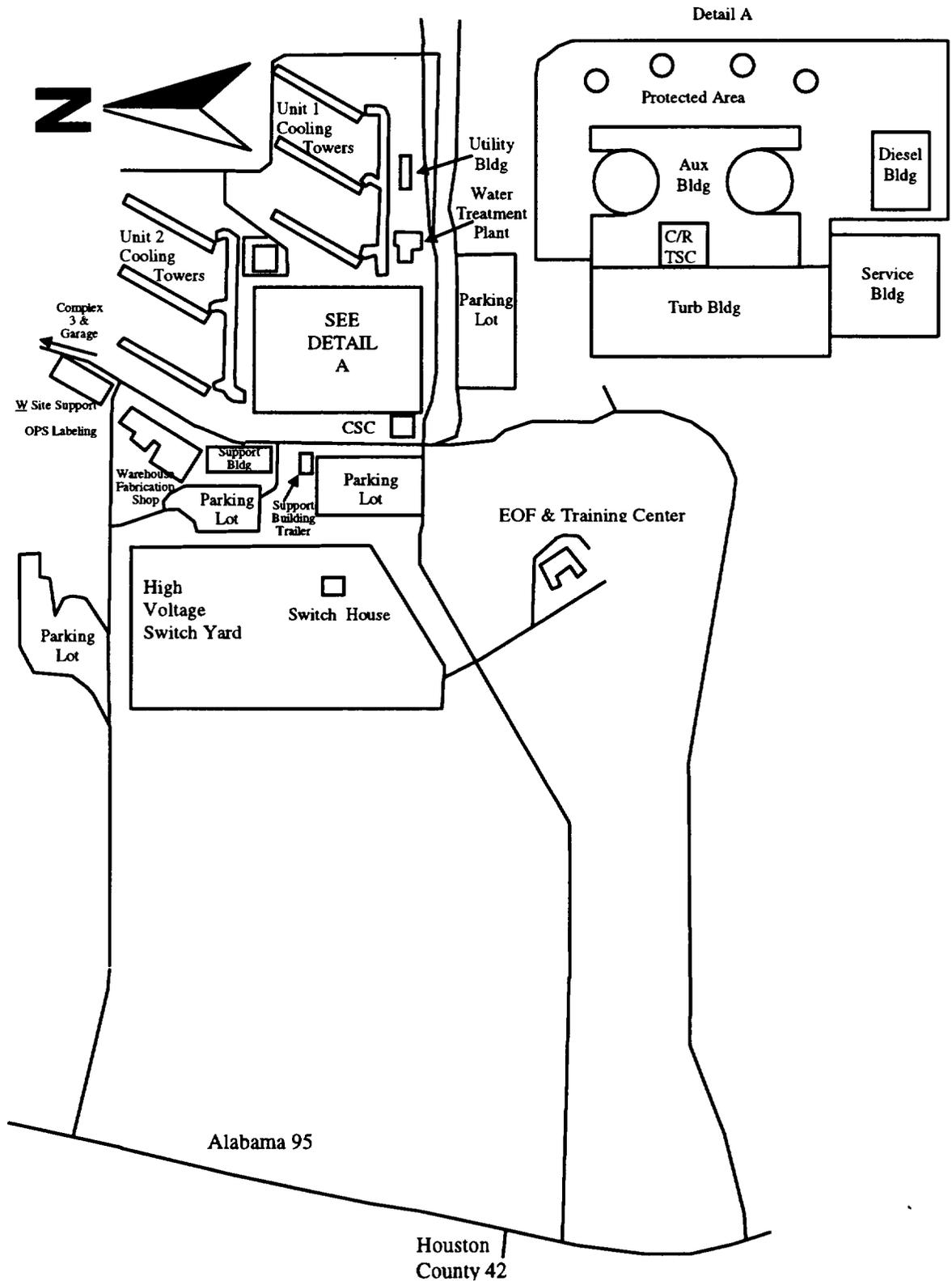
FNP-0-EIP-10.0, Evacuation and Personnel Accountability

FNP-0-EIP-11.0, Handling Of Injured Personnel

FNP-0-EIP-13.0, Fire Emergencies

FNP-0-EIP-27.0, EOF Setup and Activation

GENERAL LAYOUT OWNER CONTROLLED AREA



FARLEY NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE
FNP-0-EIP-14.0

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PERSONNEL MOVEMENT, RELOCATION, RE-ENTRY AND
SITE EVACUATION

PROCEDURE USAGE REQUIREMENTS per FNP-0-AP-6	SECTIONS
Continuous Use	
Reference Use	ALL
Information Use	

Approved:



Nuclear Plant General Manager

Date Issued 9-16-00

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PERSONNEL MOVEMENT, RELOCATION, RE-ENTRY AND
SITE EVACUATION

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**PERSONNEL MOVEMENT, RELOCATION, RE-ENTRY AND
SITE EVACUATION**

1.0 Purpose

This procedure provides the guidelines for movement, relocation, re-entry and evacuation of personnel after the initial sounding of the plant emergency alarm. A fire emergency shall be considered a special re-entry and procedures for re-entry during this type of emergency are addressed in FNP-0-EIP-13.0, Fire Emergencies.

2.0 References

See Table 1

3.0 Definitions

3.1 Movement

Personnel movement within the same assembly area building

e.g. Service Building Auditorium to Document Control

Visitors Center Auditorium to EOF

3.2 Relocation

a. The transfer of an individual (includes re-assigning designated assembly area) from one assembly area to another.

e.g. Service Building Auditorium to Visitors Center Auditorium

Service Building Maintenance Shop to TSC

b. Assignment of personnel from their assembly area to a location (non-assembly area) in the plant or on the plant site.

e.g. Control Room to Radiochemistry Labs

Service Building Auditorium to WTP

3.3 Re-entry

Entry into an area of elevated personnel hazards due to an emergency condition.

e.g. Entry into the piping penetration room to isolate an ECCS leak following a major loss of coolant accident

Entry into an area where the TEDE whole body annual dose limit of 5 rem can be exceeded during the expected time to perform the job (normally 30 minutes can be assumed to perform the job)

3.4 Site Evacuation

Organized withdrawal of personnel offsite.

4.0 Exemptions to the Guidance of This Procedure

- 4.1 Radiation Monitoring Teams (RMTs) are not required to be tracked or be authorized to move from one location to another by this procedure.
- 4.2 Personnel reporting to the site for duties in the TSC, EOF or the OCS are not required to be tracked or be authorized to report to their designated emergency response facility.
- 4.3 When the Emergency Director has Security informed of the emergency classification, he will inform Security of any access route restrictions, if necessary. Security will be issued a controlled copy of the on call memo for Security Post Gate 95 North and Security Post Gate 95 South. Personnel on the on-call memo, in any position or as an alternate, will be granted access to the site during an emergency unless specifically restricted by the Emergency Director.
- 4.4 Security will inform arriving personnel of access route restrictions, if necessary.
- 4.5 Personnel moving between the Control Room and the TSC are not required to be tracked or authorized by this procedure.
- 4.6 Personnel moving between the TSC and the breakroom outside the TSC are not required to be tracked or authorized by this procedure, unless the HP Manager has determined that a hazardous condition exists in the breakroom.
- 4.7 Personnel in the protected area delivering accountability logs to the PAP or the SAP are not required to be authorized by this procedure, but should be tracked by the senior individual in their assembly area.

5.0 Requirements for Movement

- 5.1 The senior individual in the assembly area shall authorize the movement of personnel.
- 5.2 The senior individual or his designee in the assembly area shall be responsible for tracking the movement of personnel.

6.0 Requirements for Relocation

- 6.1 The senior individual in the assembly area shall authorize the relocation of personnel, when requested to relocate individuals by the TSC, OSC or EOF.
- 6.2 The relocation guideline/log (Figure 1/2) may be used as a tracking mechanism for relocations.
- 6.3 The Control Room/TSC/OSC/EOF will inform the senior individual of any personnel hazards (toxic gas, radioactive release, etc.) that may exist. The senior individual in the assembly area shall provide a transit route for the relocation as appropriate.
- 6.4 Personnel who are being relocated from one designated assembly area to another designated assembly area will be tracked by the senior individual in the assembly area from which they are departing, until arrival at the new assembly area.
- 6.5 Personnel who are being relocated to an area outside of a designated assembly area will be tracked by the Control Room/TSC prior to the arrival of the OSC Manager, who will then have the responsibility.
- 6.6 Tracking and authorization for relocations involving personnel in the TSC/Control Room/OSC will be performed by the OSC Manager. If the OSC Manager is unavailable, the relocation responsibilities may be performed by the Maintenance Manager or Control Room.
- 6.7 Personnel who have been relocated outside of an assembly area will report to their assembly area, should the plant emergency alarm resound--unless specifically authorized to remain on station by the ED.
- 6.8 The following applies to security, regarding relocation of personnel:
 - 6.8.1 Remain on station until relocation is required.

6.8.2 When relocation becomes necessary, security supervision shall:

- Determine the route, with assistance from Control Room/TSC/OSC (Shift Supervisor/Maintenance Manager, or OSC Manager)
- Implement appropriate compensatory measures.
- Inform the ED of the compensatory measures taken.

6.9 Exposure limits for a re-location shall be limited to five rem TEDE, including the current dose to date.

6.9.1 Exposures in excess of one rem for a relocation, exclusive of current dose, shall be approved by the HP Manager, or the ED in his absence.

6.9.2 If an internal hazard is present, the limit for the relocation should be reduced by a factor of two.

7.0 Requirements for Re-entry - General Guidance

7.1 TLD badges of personnel who receive an emergency exposure in excess of the 10CFR20 limits of step 7.10 will be pulled and read prior to receiving further non-emergency exposure.

7.2 Re-entry personnel shall not deviate from a planned route unless unanticipated conditions such as rescue, performing an operation which would minimize the emergency condition, etc., require such a deviation.

7.3 If emergency dose rates observed during re-entry exceed the limits established by the re-entry guideline or other adverse conditions are encountered, re-entry personnel shall return to a safe area and contact the OSC/TSC/Control Room for further instructions.

7.4 If the Plant Emergency Alarm (PEA) is sounded while a re-entry team is involved in their assigned tasks, the re-entry team shall call the Control Room/TSC/OSC and request further instructions for assembly requirements.

7.5 The re-entry guideline/log (Figures 3/4) will serve as a tracking mechanism for re-entries. One copy of the guideline will remain with the OSC and, if desired, another copy will be given to the re-entry team leader. The guideline may be photocopied, or a two-part form may be used. The re-entry guideline will be sequentially numbered.

- 7.6 Individuals listed on the re-entry guideline as responsible for completion of guideline items are not required to personally initial the guideline, but are responsible for ensuring that each requirement is performed and initialed by the person performing or ensuring performance of the task.
- 7.7 Radiological monitoring will be established for each re-entry. The following parameters will be considered when determining the degree of radiological monitoring:
- Releases in progress
 - Dose rates, airborne and contamination levels
 - Stability of plant radiological conditions
- 7.8 Re-Entry is the responsibility of the Emergency Director, and requires verbal ED approval to execute a re-entry. Re-entries may be authorized and executed by the OSC Manager or Maintenance Manager, with ED approval. Approval to exceed 10CFR20 radiation exposure limits listed in step 7.10 must be approved by the Emergency Director. Approval to exceed plant administrative dose limits listed in step 7.10 must be approved by the HP Manager, or the Emergency Director in the HP Manager's absence.
- 7.9 An Emergency Repair Party which functions as a re-entry team shall consist of at least two (2) persons.
- 7.10 Farley Nuclear Plant personnel who have completed the onsite radiation protection training may be required to receive an exposure up to the following 10CFR20 limits:
- | | <u>10CFR20
limit</u> | <u>Administrative
limit</u> |
|------------------------|--------------------------|---------------------------------|
| Whole body (TEDE) | - 5 rem | - 2 rem |
| Lens of the eyes | - 15 rem | - 6 rem |
| Skin of the whole body | - 50 rem | - 20 rem |
| Extremities | - 50 rem | - 20 rem |
| Internal organs | - 50 rem | - 20 rem |
- 7.11 Dosimetry records for potential re-entry team members are available in the Dosimetry Lab.

CAUTION: EMERGENCY EXPOSURE LIMITS SHALL ONLY BE AUTHORIZED BY THE E.D.

- 7.12 Emergency situations may transcend the normal requirement of maintaining personnel exposures below 10CFR20 limits, as noted in step 7.10. Emergency exposures shall be minimized to every degree practicable. Farley Nuclear Plant personnel who have completed the onsite radiation protection training may be required to receive an exposure up to 25 rem TEDE for the activity and conditions described below. For those same personnel to receive in excess of 25 rem, they must voluntarily agree to receive an emergency dose in excess of 25 rem, but less than 100 rem. Persons volunteering to receive in excess of 25 rem must be made fully aware of the risks involved. Emergency exposure limits are as follows:

TEDE DOSE	ACTIVITY	CONDITION
10 REM	PROTECTING VALUABLE PROPERTY	LOWER DOSE NOT PRACTICAL
25 REM	LIFE SAVING OR PROTECTION OF LARGE POPULATIONS	LOWER DOSE NOT PRACTICAL
>25, <100 REM	LIFE SAVING OR PROTECTION OF LARGE POPULATIONS	VOLUNTEERS ONLY THAT ARE FULLY AWARE OF THE RISKS INVOLVED

Limit the dose to the lens of the eyes to 3 times the listed value. Limit the dose to other organs, including skin and extremities to 10 times the listed values.

NOTE: THERE IS CURRENTLY NO METHOD AVAILABLE TO ASSESS INTERNAL EXPOSURE ON A REAL TIME BASIS; THEREFORE, FARLEY NUCLEAR PLANT WILL UTILIZE AN ADMINISTRATIVE DEFAULT CORRECTION FACTOR OF TWO TO RELATE DEEP DOSE TO EXTERNAL EXPOSURE.

- 7.13 If an internal hazard is present, the limit for the re-entry should be reduced by a factor of two, unless a compensatory measure has been used to eliminate the internal hazard.

8.0 Requirements for Re-entry - Specific Guidance

- 8.1 The Emergency Director must verbally approve all re-entries.
- 8.2 The ED must approve doses that exceed the 10CFR20 limits of step 7.10.
- 8.3 The HP Manager or ED will complete the applicable portions of section II of the re-entry Guideline.
- 8.4 The HP Manager or designee will complete section IV of the Re-Entry Guideline.

- 8.5 The OSC Manager or Maintenance Manager (or ED, if OSC and Maintenance Manager are not available) will coordinate the re-entry and complete sections III and VI of the Re-Entry Guideline.
- 8.6 Re-Entry personnel shall:
- 8.6.1 Don necessary protective/emergency clothing and devices as prescribed in the re-entry guideline.
 - 8.6.2 Perform assigned duties in the emergency area as quickly and safely as possible.
 - 8.6.3 Report to the OSC Manager or TSC staff any unexpected conditions which may seriously affect their assigned duties.
 - 8.6.4 Without delaying the mission or causing unnecessary exposures, monitor the dose rate along the route followed to obtain radiological information, as appropriate.
 - 8.6.5 Frequently observe personal dosimeters and withdraw to a safe area prior to reaching an established dose limit, as applicable.
 - 8.6.6 Upon exiting, follow established self-monitoring and personnel decontamination procedures, as necessary, under the supervision of the individual charged with health physics monitoring.
 - 8.6.7 Record and report to the OSC Manager or TSC staff the radiological conditions, damage assessments, or any actions taken in the emergency area.
 - 8.6.8 Complete applicable sections of the re-entry guideline.
- 9.0 Site Evacuation
- 9.1 Emergency Director shall authorize site evacuation.
 - 9.2 Evacuation routes must be planned and communicated to appropriate personnel (Figures 5 and 6 may be used as guidance).
 - 9.3 When the order to evacuate the site is issued, non-essential personnel inside the controlled area shall proceed to the CSC for monitoring prior to being released from the site.

- 9.4 When the order to evacuate the site is issued, non-essential personnel outside the controlled area shall report to or remain in their designated assembly for monitoring prior to being released from the site.
- 9.5 The Emergency Director or designee will designate on-site evacuation routes and confer with off-site authorities (if available) to designate offsite evacuation routes. Figure 5 shows on-site evacuation routes. Figure 6 shows offsite evacuation routes.
- 9.6 Health Physics technicians will monitor personnel at the CSC or assembly area outside the controlled area and release them for evacuation from the site. If the monitoring area is unsuitable due to background radiation levels, the HP technician and a security force member will escort the personnel to a suitable monitoring area.
- 9.7 Personnel or equipment found to be contaminated will be returned to the plant for de-contamination or routed to one of the following de-contamination facilities with the concurrence of Houston County EOC or the Early County EOC.
 - 9.7.1 Houston County Rescue Squad Building (located on the Enon to Webb road, approximately 10 miles West of the plant site)
 - 9.7.2 Houston County Farm Center (cattle barn)
 - 9.7.3 Early County High School
- 9.8 Personnel found not to be contaminated will evacuate the site using the designated routes determined in step 9.5.

**PERSONNEL MOVEMENT, RELOCATION, RE-ENTRY
AND SITE EVACUATION**

REFERENCES

- Joseph M. Farley Nuclear Plant Emergency Plan
- EPA Emergency Worker and Lifesaving Activity Protective Action Guide
- IE Information Notice No. 84-40: Emergency Worker Doses
- NCRP No. 91
- SNC EPA 400 Manual Interpretation Document
J. D. Woodard to D. N. Morey, June 7, 1994

PERSONNEL MOVEMENT, RELOCATION, RE-ENTRY AND SITE EVACUATION

RISKS ASSOCIATED WITH ACUTE HIGH
LEVEL RADIATION EXPOSUREHEALTH EFFECTS ASSOCIATED WITH WHOLE BODY ABSORBED DOSES
RECEIVED WITH A FEW HOURS*

WHOLE BODY ABSORBED DOSE (RAD)	Forewarning Symptoms of More Serious Health Effects Associated with Large Doses of Radiation (PERCENT AFFECTED)
50	2%
100	15%

APPROXIMATE CANCER RISK TO AVERAGE INDIVIDUALS FROM
25 REM EFFECTIVE DOSE EQUIVALENT, DELIVERED PROMPTLY*

AGE AT EXPOSURE (YEARS)	APPROXIMATE RISK OF PREMATURE DEATH (DEATHS PER 1,000 PERSONS EXPOSED)	AVERAGE YEARS OF LIFE LOST IF PREMATURE DEATH OCCURS (YEARS)
20 TO 30	9.1 (.91%)	24
30 TO 40	7.2 (.72%)	19
40 TO 50	5.3 (.53%)	15
50 TO 60	3.5 (.35%)	11

PROMPT EFFECTS OF ACUTE RADIATION EXPOSURE**

ACUTE DOSE REM	PROBABLE CLINICAL EFFECT
0-25	No observable effects.
25-100	Slight blood changes, no other observable effects.
100-200	Vomiting may occur in 5 to 50% within three hours, with fatigue and loss of appetite. Moderate blood changes are likely. Except for the blood forming organs, recovery will occur in essentially all cases within a few weeks.

* REFERENCE EPA 400 MANUAL

** REFERENCE INPO GUIDANCE

RELOCATION GUIDELINE

RELOCATION # _____

DESCRIPTION: _____

RELOCATION FROM: _____

RELOCATION TO: _____

DUTIES: _____

ESTIMATED TIME TO COMPLETE: _____

TRANSIT ROUTE: _____

HP REQUIREMENTS: THE MAXIMUM ALLOWED DOSE FOR THE RE-ENTRY IS FIVE REM, INCLUDING PREVIOUS EXPOSURE FOR THE YEAR.

IF AN EXTERNAL HAZARD IS INVOLVED, EXTERNAL DOSE LIMIT SHOULD BE REDUCED BY A FACTOR OF TWO.

DOSE LIMIT: _____ HP MGR/ED APPROVAL IF >1 REM: _____
(N/A IF NO RAD HAZARD)

OTHER HP REQ: _____

PERSONNEL: _____

Continued on Additional Sheet

APPROVAL: _____

TIME OUT: _____ TIME IN: _____

CALL BACK PHONE NUMBER: _____

COMMENTS: _____

RE-ENTRY GUIDELINE

RE-ENTRY FOR: _____ RE-ENTRY # _____
UNIT # _____ DATE/TIME _____ / _____

NOTE: THE STEPS OF THIS GUIDELINE MAY BE DONE IN ANY ORDER PRIOR TO DISPATCHING THE RE-ENTRY TEAM.

OSC MANAGER SECTION I

____ A. Obtain ED verbal approval for the reentry.
OSC MGR

____ B. Select qualified personnel for the re-entry.
OSC MGR
*team leader * _____

____ C. Specify duties for re-entry:
OSC MGR (notes if desired) _____

____ D. Specify transit route (discuss):
OSC MGR (notes if desired) _____

____ E. Specify communications and actions
OSC MGR to take if communications cannot be established:
call back number 1. _____ 2. _____
gaitronics _____
radio _____

____ F. Dispatch re-entry team when HP requirements
OSC MGR per page 2 are met and brief per page 3 is complete.

HEALTH PHYSICS SECTION II

____ A. Specify dose and dose rate limits.
HP

APPROVED DOSE: _____

APPROVED DOSE RATE: _____

____ B. Authorize dose limits less than 10CFR20 limits and greater than admin limits per
HP MGR paragraph 7.10.

____ C. Authorize dose limits greater than 10CFR20 limits in paragraph 7.10.
ED

____ E. Have re-entry personnel complete appropriate sections of re-entry individual
HP exposure record including signing the form if 10CFR20 limits will be exceeded and complete Re-Entry Individual Exposure Record.

____ D. Verify that the approved dose will not cause the individual(s) to exceed FNP HP
HP admin limits unless approved by HP manager or 10CFR20 limits unless approved by the ED.

E. For doses in excess of 25 rem, the following two steps must be performed:

____ 1. Verify that the individual to receive the dose is a volunteer.
HP MGR

____ 2. Ensure that the individual to receive the dose has been briefed and is fully
HP MGR aware of the risks involved. (Use table 2 as guidance for the brief.)

____ F. Are Thyro Block (KI) tablets required? yes no (Ref FNP-0-EIP-4.0, Fig 3)
HP MGR

____ G. Specify appropriate protective clothing and monitoring devices.
HP

- | | |
|---|--|
| <input type="checkbox"/> STREET CLOTHES | <input type="checkbox"/> SINGLE W/B TLD |
| <input type="checkbox"/> STD LABCOAT DRESSOUT | <input type="checkbox"/> MULTIBADGE |
| <input type="checkbox"/> STD CVRALL DRESSOUT | EXT TLD <input type="checkbox"/> HANDS <input type="checkbox"/> FEET |
| <input type="checkbox"/> CLOTH <input type="checkbox"/> PAPER <input type="checkbox"/> PLASTIC PICS | <input type="checkbox"/> 200MR <input type="checkbox"/> 2R <input type="checkbox"/> 5R |
| <input type="checkbox"/> SCBA | <input type="checkbox"/> DAD |
| <input type="checkbox"/> OTHER RESPIRATOR _____ | |
| <input type="checkbox"/> OTHER _____ | |

COMBINED BRIEF SECTION

Conduct a pre-job brief of the Re-Entry. The following information must be included:

- Duties for the re-entry including required procedures and safe work practices. Reference the OSC managers section and the re-entry duties section.
- Hazards associated with the assigned tasks (Radiological and Non Radiological)
- Dose and dose rate limits while performing the re-entry (per Health Physics section)
- Personnel protective equipment required (per Health Physics section if radiological)
- Isolation and control of energy sources (Clearance)
- Special support needs and precautions
- Transit route. It is acceptable for the team to modify the transit route based on the conditions encountered during the re-entry. If the route is modified, the OSC or control room should be notified as soon as possible if the change places the team in areas that are not on the route.
- Communications and actions to take if communications cannot be established

The following information may be considered in the pre-job briefing:

- Industry experience
- Plant or equipment conditions including potential radiological or industrial safety hazards and precautions
- Each person's job or task assignment
- Expected sequence of events and results
- Problems to be anticipated
- Criteria to be used to stop the evolution
- Contingencies if the evolution is stopped or the expected result is not achieved
- Potential distractions and how they will be minimized
- Housekeeping and fluid system cleanliness requirements
- Chemical control and disposal requirements
- Foreign Material Exclusion (FME) Controls

RE-ENTRY TEAM SECTION

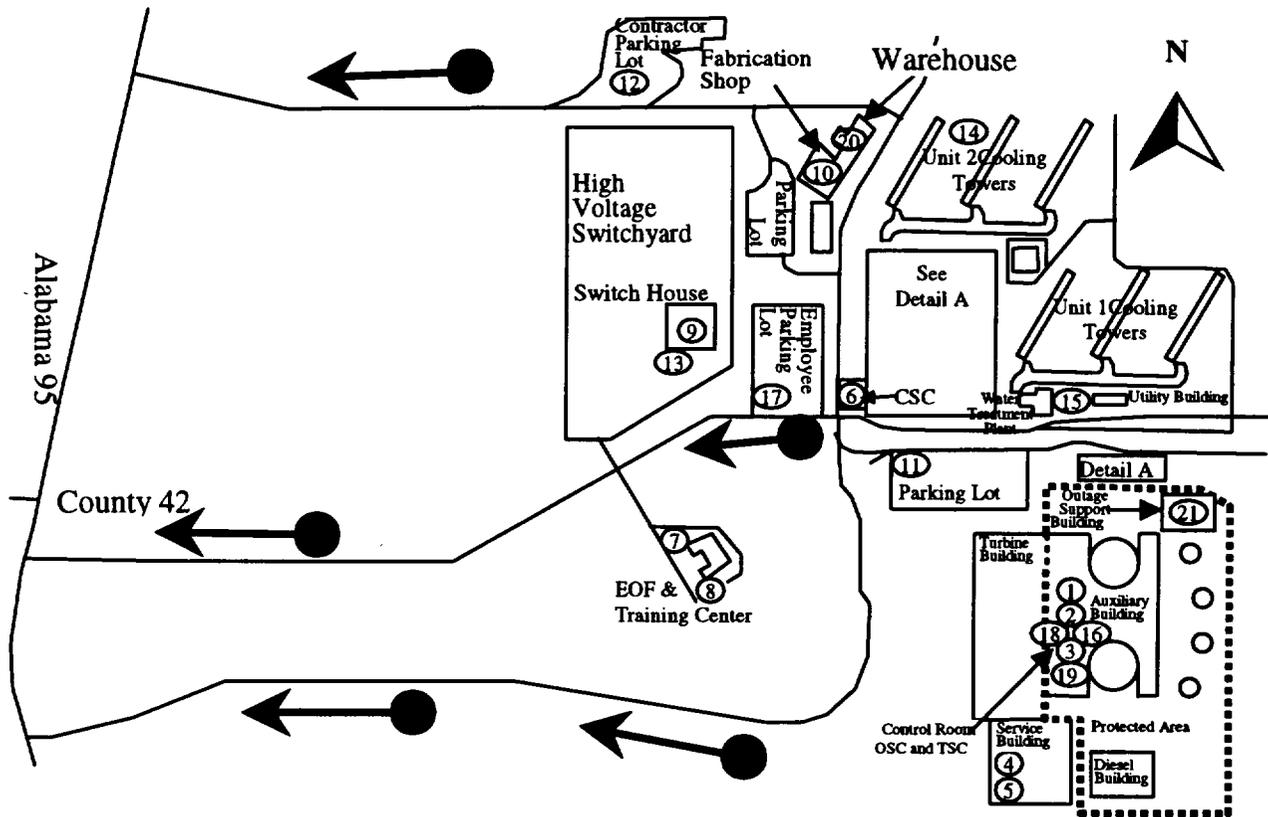
NOTE: IT IS NOT REQUIRED FOR THE RE-ENTRY TEAM TO KEEP A COPY OF THIS FORM WITH THEM DURING THE RE-ENTRY.

- _____A. Monitor dose and dose rate and retreat to a safe area if limits are exceeded.
Team
- _____B. Report unexpected conditions to the TSC or OSC as applicable.
Team
- _____C. Monitor and record dose rates along re-entry route without delaying the mission or causing unnecessary exposure.
Team
- _____D. Report to the TSC or OSC as applicable, radiological conditions, damage assessment or any actions taken during the re-entry.
Team
- _____E. Perform the task assigned to the re-entry team.
Team

DEBRIEF SECTION

- _____A. Debrief re-entry personnel.
OSC MGR
- _____B. Report debriefed information to the appropriate staff in the TSC.
OSC MGR

**ON-SITE EVACUATION ROUTES,
ASSEMBLY AREAS, AND OPERATIONS SUPPORT CENTER**



LEGEND

OPERATION SUPPORT CENTER

1 BREAKROOM OUTSIDE TSC

ASSEMBLY AREAS

- 2 CONTROL ROOM
- 3 TSC
- 4 SERVICE BUILDING AUDITORIUM
- 5 MAINTENANCE SHOP
- 6 CSC
- 7 VISITORS CENTER AUDITORIUM
- 8 EOF
- 9 SWITCH HOUSE
- 10 FABRICATION SHOP
- 20 WAREHOUSE RECEIVING AREA
- 21 OUTAGE SUPPORT BUILDING

ALTERNATE ASSEMBLY AREAS

- 11 PARKING LOT SOUTH OF S.B.
- 12 CONTRACTOR PARKING LOT
- 13 SWITCHHOUSE PARKING LOT
- 14 BETWEEN 2A & 2B COOLING TOWERS
- 15 UTILITY BUILDING
- 16 SE CORNER OF CONTROL ROOM
- 17 EMPLOYEE PARKING LOT
- 18 BREAKROOM NEAR PAP
- 19 HP OFFICE AREA

EVACUATION ROUTES



OFF-SITE EVACUATION ROUTES

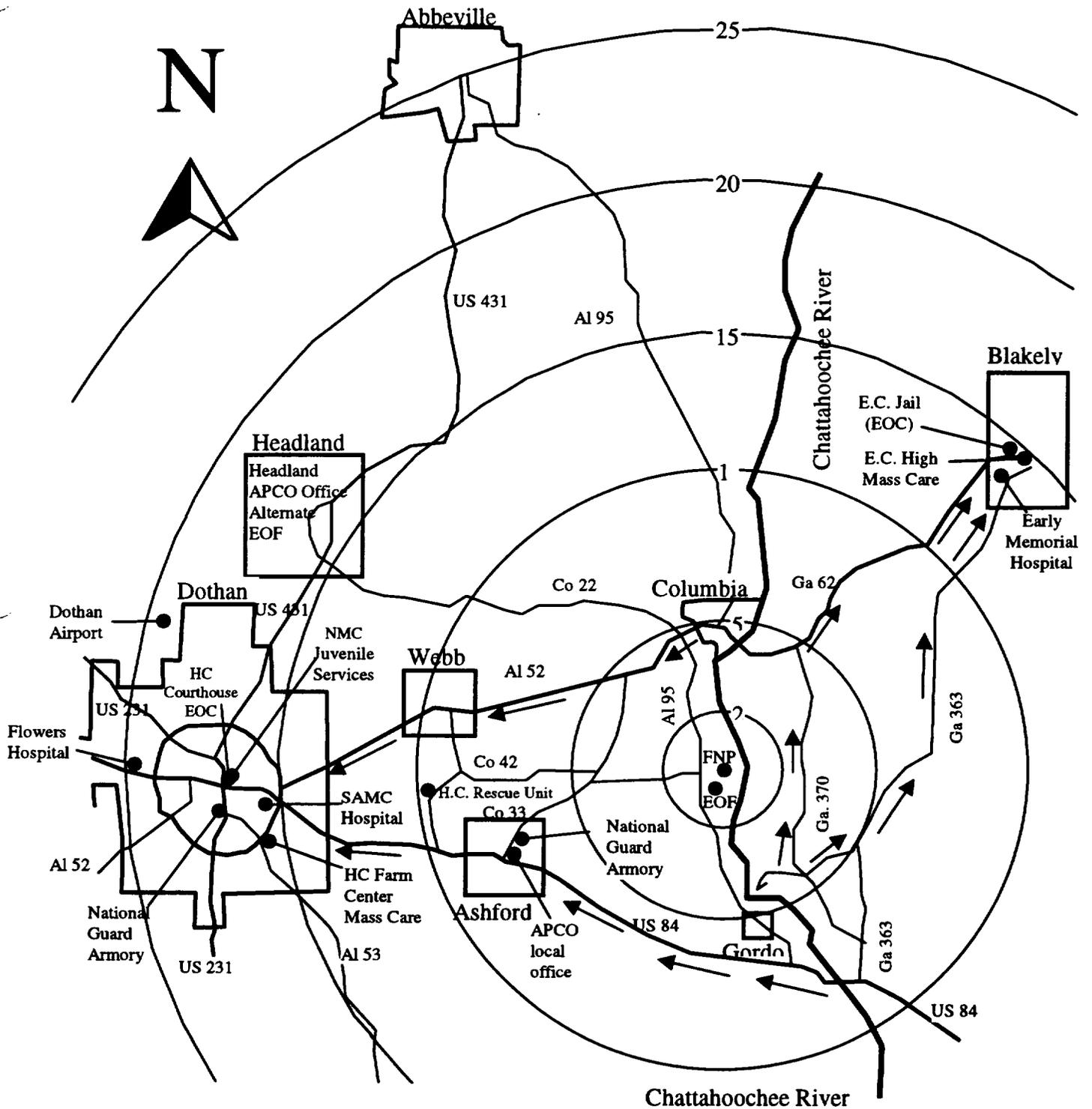


FIGURE 6
Page 1 of 1

FARLEY NUCLEAR PLANT

EMERGENCY PLAN IMPLEMENTING PROCEDURE 5.0

FNP-0-EIP-5.0

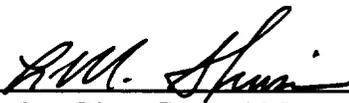
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MAINTENANCE SUPPORT TO THE EMERGENCY PLAN

R
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D

PROCEDURE USAGE REQUIREMENTS PER FNP-0-AP-6	SECTIONS
Continuous Use	
Reference Use	
Information Use	ALL

Approved:



 Nuclear Plant General Manager



Date Issued 9-6-00

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MAINTENANCE SUPPORT TO THE EMERGENCY PLAN

1.0 Purpose

This procedure delineates the responsibilities of the maintenance department during emergencies at the Farley Nuclear Plant.

2.0 References

- 2.1 Joseph M. Farley Nuclear Plant Emergency Plan
- 2.2 FNP-0-EIP-10.0, Evacuation and Personnel Accountability
- 2.3 FNP-0-EIP-14.0, Personnel Movement, Relocation, Re-entry and Site Evacuation

3.0 Support. Maintenance department support during emergencies shall consist of, but is not limited to, the following actions:

- 3.1 **Repairs.** Perform temporary and/or permanent repairs to plant systems/ components in order to mitigate the effects of the emergency.
- 3.2 **Maintenance.** Perform maintenance activities associated with the recovery from an emergency.
- 3.3 **Assist Fire Brigade.** Assist the on-shift fire brigade as necessary to provide equipment and support services.

4.0 Accountability. In the event of an emergency, maintenance department personnel shall report to the service building maintenance shop in accordance with FNP-0-EIP-10.0, "Evacuation and Personnel Accountability".

5.0 Repair Parties. The maintenance department shall provide at least one individual on shift for each position listed below, for assignment to an emergency repair party, for initial re-entry, and repair:

- Assistant Team Leader or above
- Mechanical Maintenance Journeyman
- Electrical Maintenance Journeyman
- Instrument & Control Journeyman

6.0 The Maintenance Manager shall:

- 6.1 Report to the technical support center or other location as directed by the emergency director.
- 6.2 If the OSC manager is unavailable:
 - 6.2.1 Coordinate and authorize re-entries per FNP-0-EIP-14.0.
 - 6.2.2 Provide information to other assembly areas for relocations and movements per FNP-0-EIP-14.0.
 - 6.2.3 Coordinate movements and re-locations directly associated with the TSC and relocations of individuals outside of designated assembly areas per FNP-0-EIP-14.0.
- 6.3 Select personnel for assignment to an emergency repair party in coordination with the OSC manager.
- 6.4 Plan the activities of and give instructions to members of the emergency repair party.
- 6.5 Maintain ALARA. With the aid of the health physics manager, maintain exposures to maintenance personnel "as low as reasonably achievable" during re-entry, repair, or decontamination activities resulting from an emergency.
- 6.6 Perform other duties as described in FNP-0-EIP-6.0, or as directed by the emergency director.

7.0 Maintenance Department Personnel who are members of the emergency repair party shall:

- 7.1 Comply with the instructions of FNP-0-EIP-14.0.
- 7.2 Comply with the instructions of the emergency director and maintenance manager.

8.0 Maintenance Support Personnel

- 8.1 Maintenance support personnel with experience in the mechanical, electrical, and I&C areas will be assigned on the on-call memo.
- 8.2 Maintenance support personnel will report to the OSC (breakroom outside the TSC) and inform the maintenance manager of their arrival.

- 8.3 Maintenance support personnel will perform duties as required by the maintenance manager.
- 8.4 The first maintenance support individual that arrives in the OSC will act as the OSC manager until the arrival of the designated OSC manager.
- 8.5 A designated OSC manager will be designated on the on-call memo.
- 9.0 OSC Manager shall:
 - 9.1 Report to the operations support center or other location directed by the emergency director.
 - 9.2 Perform the duties of OSC Manager as specified in Guideline 1.

Guideline 1
OSC Managers Guideline

NOTE: The activities on this guideline are not required to be performed in sequence.

1. _____ Maintain a log of important activities in the OSC.
2. _____ Determine the staffing needs in the OSC.
Ensure enough staff in the OSC to support dispatching re-entry teams, relocations, and repair parties.
3. _____ Use FNP-0-EIP-14.0 to coordinate the relocations/movements associated with steps 5 through 11 if the plant emergency alarm has been actuated.
4. _____ If the plant emergency alarm has not been actuated, inform the individuals relocated/moved in steps 5 through 11 that their designated assembly area is now the OSC.
5. _____ Coordinate with the HP manager to appoint a HP manager designee in the OSC.
6. _____ Verify enough HP technicians are available to support OSC operations.
7. _____ Verify enough chemistry technicians are available to support OSC operations.
8. _____ Verify enough operations staff is available to support OSC operations.
9. _____ Verify enough trained radiation worker/helpers or other individuals are available to support OSC operations.
10. _____ Coordinate with the maintenance shop to have an adequate number of mechanical maintenance, electrical maintenance, and I&C journeymen with tools sent to the OSC to support OSC operations.
11. _____ Consider augmenting the OSC staff with an individual to perform clerk functions in the OSC.
12. _____ If the plant emergency alarm has not been actuated, have unnecessary personnel leave the OSC.
13. _____ After the plant emergency alarm has been actuated, consider relocating unnecessary personnel from the OSC to alternate assembly areas in the protected area. This relocation is expected by the TSC staff and may be performed unless otherwise directed. Base the relocation on the recommendations of the HP staff in the OSC and the TSC staff.
14. _____ Coordinate with the maintenance manager for organizing repair parties.

**Guideline 1
OSC Managers Guideline**

- 15. _____ **Perform the senior individual duties in the OSC per FNP-0-EIP-10.0 in the event that the plant emergency alarm is actuated and accountability is required.**

- 16. _____ **Coordinate and authorize movements, relocations, and re-entries associated with the Control Room, TSC and OSC per FNP-0-EIP-14.0.**

- 17. _____ **Track individuals relocated outside of a designated assembly area per FNP-0-EIP-14.0.**