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Operating Company, Inc.
Post Office Drawer 470
Ashford, Alabama 36312

Date: February 20, 2004



Director, Office of NRC
US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Attention: Mr. Jim McKnight

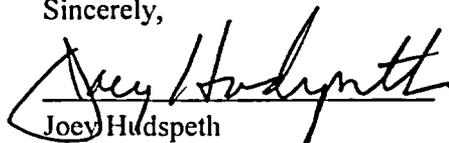
Dear Sir:

ATTACHED YOU WILL FIND THE NEW REVISION FOR THE FOLLOWING PROCEDURES
FOR FARLEY NUCLEAR PLANT.

FNP-0-EIP-9.0 REVISION 51 (1 COPY)

PLEASE REPLACE YOUR COPY WITH THE ATTACHED REVISED COPY.
IF YOU HAVE ANY QUESTIONS, PLEASE CALL ME AT 334-899-5156 EXTENSION 3439.

Sincerely,


Joey Hudspeth
Document Control Supervisor

JBH:llb
RTYPE: A4.54

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FNP-0-EIP-9.0
January 27, 2004
Version 51

FARLEY NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE 9.0
FNP-0-EIP-9.0

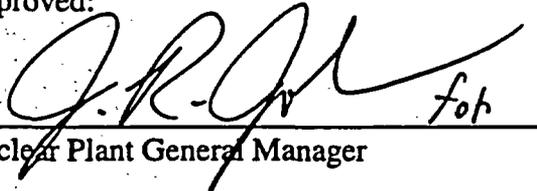
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EMERGENCY CLASSIFICATION AND ACTIONS

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

Approved:


Nuclear Plant General Manager

Date Issued 2-19-04

LIST OF EFFECTIVE PAGES

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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 On Shift Dose Analyst 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 On Shift Dose Analyst 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 Initial evaluation of off-site dose.

The On Shift Dose Analyst when asked to perform dose assessment should initially evaluate effluent monitors (R-14, R-21, R-22, R-29, an R-60 series or an R-15 series) as follows:

- 4.2.1.1 If there are no effluent radiation monitors that are in alarm or have up-scaled by a factor of 10 or more,
and
there are no other indications of an off-site radioactive release in progress,
then
The On Shift Dose Analyst should report to the ED that there is no indication of a radioactive release based on effluent monitors and **NO** additional dose assessment per step 4.2 is required. Continue to perform this assessment periodically not to exceed 30 minutes until the requirement is terminated by the ED.
- 4.2.1.2 If any effluent radiation monitor is in alarm or has up-scaled by a factor of 10 or more,
or
there are other indications of an off-site radioactive release in progress,
then
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 Dose Assessment Supervisor or EOF 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 dose rate 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, and by the Dose Assessment Supervisor or EOF 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 verbal notification but no longer than 30 minutes after the verbal notification has been transmitted over the ENN. Refer to step 6.2 for time limits for other follow-up messages.
- 6.1.2 Use, if desired, Attachment 1, 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 step 6.1.

- 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

EMERGENCY NOTIFICATION FORM GUIDANCE

- 1.0 **Emergency Notification Form Guidance** is provided below. The guidance is provided for filling out the Emergency Notification Form (FIGURE 6). This attachment can be used as reference guidance when filling out the form or for training.
- 1.1 A **VERBAL NOTIFICATION** of a declared emergency or an upgrade to a higher level declared emergency shall be performed in accordance with Guidelines 1 through 4 using the appropriate Verbal Notification Form.
- 1.2 A **FOLLOW-UP MESSAGE** will be used to make periodic plant status updates using Figure 6. This attachment is a **REFERENCE** to use as necessary for completing Figure 6.

NOTE: THE BOXES CAN BE INDICATED BY A CHECK, AN "X", OR BY FILLING OR BLACKENING IN.

Line 1

- Check A or B.
- Except for actual emergencies A should be checked in training and for drills/exercises.
- Check D.
- D should be checked for Follow-up Messages described in step 1.2 above. Note the single asterisk associated with box D for Follow-up Messages.
- The Follow-up message numbers are sequential, starting with 001.

Line 2

- Specify Unit 1, 2, or both. If both is entered consider describing the least affected unit reactor status in line 7.
- Reported by is the individual who filled out the form.

Line 3

- Fill in the time/date of this message just prior to transmitting.
- Fill in an extension number that will be staffed so that the state and county agencies have a place to talk to someone that can help them. A Direct inward dial number may be entered. In the TSC, EOF or Control Room (334) 814-4662 and (334) 814-4663 are dedicated for call in by the states.
- Select TSC, EOF or fill in a separate fax number that will be staffed, so that the state and county agencies have a location where they can fax information if necessary

Line 4

- This line is not used at FNP. It remains on the form to maintain conformity with other state forms.

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Line 5

- Check A, B, C or D (only one) as appropriate. Check no boxes if this is a termination.

Line 6

- Check A or B. Time is for the declaration checked in line 5 or the time of termination.. Termination should only be done after conversation with off-site authority per FNP-0-EIP-28.0. If this is a termination, go to line 16.

Line 7

- Provide a brief, concise summary of plant conditions that requires the classification and other pertinent information.
- Enter the classification criteria used in words; the criteria code may also be included.
- If more space is needed, check box E and use the continuation sheet.
- If any of the items in block A, B, C or D apply, check them as well.

Line 8

- Check A, B or C.
- A should be checked if mitigation efforts appear successful , progressing toward termination/recovery.
- B should be checked if escalation to a higher classification is unlikely based on current conditions.
- C should be checked if escalation to a higher emergency classification or PAR change is likely.
- Check D if FMTs have been dispatched off-site
- Check E if personnel not needed to support recovery efforts have been released from the site. This provides the state and county information as to who to expect to see in the 10 mile EPZ

Line 9

- Check A or B to provide information about the affected unit.
- If both units are affected provide the least affected unit information in line 7 and the most affected unit information here
- If A is checked complete the time that the reactor was shutdown
- If B is checked, provide the current reactor power from N41, 42, 43 or 44.

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ATTACHMENT 1

Line 10

- Check A, B, C or D (only one).
- Check A if the criteria for a (B) Potential Release, (C) Is Occurring or (D) Has Occurred has not been met
- If A is checked, go to line 14 to provide meteorological data. Off-site agencies still want line 14 information in order to know what zones might be affected. No information should be filled in for lines 11, 12 or 13.
- Check B for potential failures of the final barrier to the release of fission fragments. Examples of potential releases are the RCS and clad barriers that are known to be failed and containment pressure is above design value, or the clad and containment barriers are failed and a pressurizer safety valve is stuck with PRT pressure rising. For potential releases, do not put estimated or potential values for the release information in lines 11, 12, or 13, because there is no release in progress.
- If B is checked, go to line 14 to provide meteorological data. Off-site agencies still want line 14 information in order to know what zones might be affected. No information should be filled in for lines 11, 12 or 13.
- Check box C if an emergency release is occurring. An emergency release should be considered to exist if an abnormal increase in radiological release rate by a factor of 10 over and above normal operating levels has occurred. Normal operating levels are average release levels for steady-state operations (may be obtained from ERDS, RMDA, control room recording, or plant computer).
- If A Site Area Emergency or General Emergency has been declared and a release is in progress, complete the information in lines 11, 12 and 13 based on the values obtained from an EDCM calculation (MIDAS or ARDA)
- If a NOUE or an ALERT has been or can be declared based on the release in progress then provide the release information in line 7 as directed by step D of Guideline 3 or 4. Do not provide any information in lines 11, 12 or 13 except for checking 12D to indicate that the release is above Technical Specification limits
- Check Box D if a release that was large enough to require an emergency classification of NOUE or above to be declared had occurred but is now stopped.
- If EDCM dose assessment information has already been provided in lines 11, 12 and 13 in previous messages continue to provide this information.
- If a new estimate of projected off site dose is not available then do not provide data in lines 11 through 13, go directly to line 14.

Line 11

- For actual releases only, normally check A
- Mixed mode calculations are normally not done at FNP
- Fill in actual start/stop times for C, D, E and F as appropriate. It is not necessary to check the boxes when data is being entered into the blanks.

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ATTACHMENT 1

Line 12

- The ARDA and MIDAS programs provide release rate in μ Curies/Sec. Check box A.
- For all emergency releases check C or D to indicate if release is above or below Technical Specification limits. Any release that can be used to declare a NOUE or above is above Technical Specification Limits and if no emergency can be declared it is below Technical Specification limits
- The data for completing blanks E, F, G and H on this line is available from the MIDAS or the ARDA printout.
- It not necessary to check the boxes when data is being entered into the blanks.

Line 13

- For all new dose assessment calculations that are to be reported, then check new and fill in Blanks C through L. Note that line 14 meteorological data must be the same data that was used in performing the new dose assessment calculation.
- If there has been no new dose assessment calculation performed since the last message, then check box B and leave all other line 13 blanks empty.
- Box B can also be checked to if the intent of the message is to report rapid changes in emergency status, plant conditions, meteorological conditions or changes in PARS without performing a new dose projection.
- In blank C fill in the length of time in hours that the release is expected to continue from the current time. Four hours should always be assumed if the actual time is unknown.
- The data for completing blanks D through K on this line is available from the MIDAS or the ARDA printout.
- It not necessary to check the boxes when data is being entered into the blanks.
- For box L Obtain the accident type number from the MIDAS Program printout. It is displayed in the same location on the MIDAS printout. If dose assessment is being done using ARDA place NA in this block
- For ODCM calculations (for NOUE or Alert), do not enter dose or dose rate information here. Place the dose rate information in the comments at line 7, along with the notes that are specified in the NOUE and Alert Guidelines if declaration is based on the ODCM.

Line 14

- Fill in the meteorological data required in A through D. Note that line 14 meteorological data must be the same data that was used in performing the dose assessment calculation information provided on line 12 and 13.
- When possible use 15 minute average data, available from the NR ERDS MIDAS page

Line 15

- Refer to Step L of the appropriate FNP-0-EIP-9.0 Guideline to determine appropriate Protective action Recommendations (PARs).
- If there are no protective action recommendations, check box A and proceed to step 16.
- Specific protective actions must be made for a general emergency.

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ATTACHMENT 1

Line 16

- "Approved by" should be the Emergency Director or EOF Manager, with the current date and time.

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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° 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.

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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

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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.

Initials

A. Notify personnel on site

- ___ 1. If the Plant Emergency alarm has not already been activated, then announce over the public address system "All Plant Personnel Report to Designated Assembly Area," activate the PEA for 30 seconds and repeat the announcement.
- ___ 2. Announce the classification, and the condition, request setup of the TSC and EOF and give needed evacuation instructions over plant public address system.

B. Callout the ERO staff

- ___ 1. Activate the ERO callout system per FNP-0-EIP-8.3, Table 2.

NOTE: IF POSSIBLE AND TIME PERMITTING, DISCUSS WITH ALABAMA RADIATION CONTROL AND GEORGIA EMERGENCY MANAGEMENT AGENCY ABOUT THE PARs PRIOR TO ANNOUNCING THEM OVER THE ENN.

C. Complete Notification form

- ___ 1. 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.

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GUIDELINE 1

GENERAL EMERGENCY

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE OPERATIONS SHIFT COMMUNICATOR, 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).

E. Emergency Organization Notifications

- _____ 1. On-call Emergency Director
- _____ 2. On-call EOF Manager
- _____ 3. SNC Duty Manager
- _____ 4. 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.

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GUIDELINE 1

GENERAL EMERGENCY

- ___ 5. Savannah River Operations Office, if necessary.
- ___ 6. If there is a security event involved ensure appropriate notifications and actions of FNP-0-AOP-49 and FNP-0-SP 37.0 are performed
- ___ 7. If there is a security event involved and access to the plant from off site is restricted by local law enforcement (LLE) and it is desired to bring a plant employee to the site then perform the following:
 - Contact the Houston County EMA to arrange a route and provide the names of individuals that require access to the plant for relay to LLE.
 - Inform the individuals that are coming to the site of the required route to the site and that they must have a company picture ID to get through the roadblocks

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.
- ___ 7. Determine what should be done with a unit that is not affected by the declared emergency. Consider the effect on the emergency unit, manpower utilization, plant and grid stability, and other relevant factors.

GUIDELINE 1

GENERAL EMERGENCY

H. Off-Site Support

- ___ 1. Ensure Field Monitoring teams have been dispatched per EIP-4.0.
- ___ 2. Provide information to the EOF 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 concerns

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs.
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.
- ___ 3. If an LOSP has occurred evaluate the event to ensure that an adequate supply of fuel oil is available for the Diesel Generators for 7 days. Refer to REA 00-2337 and FNP-0-SOP-42.0 Figure 1.

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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.

- 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.
- 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.

(PARs continued on next page)

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GUIDELINE 1

GENERAL EMERGENCY

- c. 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 judgment 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.
 - FMTs 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.
- d. 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.

SHARED GUIDELINE 1

GENERAL EMERGENCY RED VERBAL 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. 4662 or 4663
- 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
- 10. Emergency Releases: A None C Is Occurring
- 14. Meteorological Data A Wind Direction (from) _____ B Speed(mph) _____ C AT _____

- 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

AND 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.

E Other _____

- 16. Approved By: _____ Emergency Director
(Name) (Title)
- A. _____ Line 1 check box A or B.
- B. _____ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- C1. _____ Line 7 check the box(es) for the criteria requiring this emergency classification (only one required).
- C2. _____ Check all failed barriers or none, check heat removal inadequate if appropriate.
- C3. _____ If more information is required, list it on a separate page, read it over the ENN when line 7 is read.
- D. _____ Line 10 if an Emergency Radioactive release is in progress, check box C otherwise check box A.
- E. _____ Line 14 enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP
- F. _____ Line 15 indicated the PARs required for this declaration, by selecting the down wind zones in lines C and D1 or D2. Use line E 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.

| | | | |
|---|------------|------------|---------------------------------------|
| Alabama Radiation Control <u>OR</u> State Troopers | | | |
| <u>OR</u> Houston Co | Time _____ | Name _____ | Acknowledged <input type="checkbox"/> |
| GEMA <u>OR</u> Early County | Time _____ | Name _____ | Acknowledged <input type="checkbox"/> |
| If Alabama Radiation Control is at the FEOC in Houston County then Houston County is not required to be notified. | | | |
| Houston County | Time _____ | Name _____ | Acknowledged <input type="checkbox"/> |
| If GEMA is at the FEOC in Early County then Early County is not required to be notified. | | | |
| 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"/> |
| I. _____ Proceed to the following page for the REMAINING NOTIFICATIONS at step J. | | | |

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GUIDELINE 1

GENERAL EMERGENCY RED VERBAL NOTIFICATION FORM

SOUTHERN LINC ENN INSTRUCTIONS FOR INITIAL NOTIFICATION

1. Press group pushbutton, verify display shows WIDE AREA, FEP ENN. Correct per step 6 below if necessary. Pickup handset or leave in cradle, press to talk (PTT), wait for the chirp and announce "This is name/title at Farley Nuclear Plant. Please obtain a GENERAL EMERGENCY RED initial notification form and monitor the ENN." Release the PTT.
2. PTT and request a state level agency (see NOTIFICATION MEANS table below) for Alabama and Georgia, a county level agency for Houston County (not required IF Alabama Radiation Control is 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 "Alabama Radiation Control at Montgomery EOC are you on the line?" Release the PTT after each request to allow the party to answer
- 3 PTT 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. Release the PTT after reading two or three lines to allow individuals to respond.
4. Have the agencies contacted above, acknowledge receipt of the message and fill in the checkbox on previous page when they do.
5. 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 as soon as possible.
6. If the display does not show "WIDE AREA, FEP ENN" when group is pressed, press the button with the square until the top line is indicated, then press the arrow buttons until "WIDE AREA" is displayed, then press the button under OK. Press the button with the square until the second line is indicated then press the arrow buttons until "FEP ENN" is displayed, then press the button under OK

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

ALABAMA State Agencies In preferred order
 Alabama Radiation Control at Montgomery EOC
 ENN (1305), OPX (6628), phone (334-242-4378)
 FAX (334-264-4396)
 State Troopers in Montgomery
 ENN (1303), phone (334-242-4378, 4379)
 Alabama Radiation Control at Alabama Forward
 EOC
 ENN (1307), OPX 6621), phone (334-793-1565)
 FAX (8-257-1535)
HOUSTON COUNTY
 ENN(1307), OPX (6621),
 FAX(8-257-1535)
 phone (334-794-9720, 793-9655, 334-677-4807, 4808)
AEMA COURTESY NOTIFICATION
 ENN (1306)

GEORGIA State Agencies In preferred order
 GEMA at Atlanta EOC
 ENN (1304), OPX (6629), Phone (404-635-7200)
 FAX (404-627-4850)
 GEMA at Georgia Forward EOC
 ENN (1308) OPX (6626) phone (229-723-4826)
 FAX (8-257-2455)
EARLY COUNTY
 ENN(1308) OPX (6622)FAX(8-276-4655)
 phone(229-723-3577, 3578, 4826)

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)

- J. ___ Fax a copy of the previous page GENERAL EMERGENCY RED VERBAL 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, follow-up message as soon as possible.
- M. ___ Fax Figure 6, side 1, to state and local agencies as soon as possible, but within 30 minutes of the verbal notification 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 2SITE 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 2SITE 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 Specification 3.4.16 requiring shutdown or Dose Equivalent Iodine greater than T.S. Figure 3.4.16-1 20% limit, 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

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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**

NOTE: A fire affecting ECCS is one that has directly affected the ability of both trains of ECCS (high head, low head or accumulators specifically) to perform their intended function. This does not include attendant equipment if alternate means of performing the attendant equipment functions are available.

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.

Initials**A Notify personnel on site**

- _____ 1. If the plant emergency alarm has not already been activated, then announce over the public address system, "All plant personnel report to designated assembly areas", activate the PEA for 30 seconds, then repeat announcement.
- _____ 2. Announce the condition, request setup of the TSC and EOF, and give needed evacuation instructions over plant public address system.

B. Callout the ERO staff

- _____ 1. Activate the ERO callout system per FNP-0-EIP-8.3, Table 2.

C Complete Notification form

- _____ 1.. 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 OPERATIONS SHIFT COMMUNICATOR, 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).

GUIDELINE 2

SITE AREA EMERGENCY

- ___ 2. Verify notifications complete and documented on the Site Area Emergency Initial Notification Form (last two pages of this guideline).

E. Emergency Organization Notifications

- ___ 1. On-call Emergency Director
- ___ 2. On-call EOF Manager
- ___ 3. SNC Duty Manager
- ___ 4. 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.
- ___ 6. If there is a security event involved, ensure appropriate notifications and actions of FNP-0-AOP-49 and FNP-0-SP 37.0 are performed.
- ___ 7. If there is a security event involved and access to the plant from off site is restricted by local law enforcement (LLE) and it is desired to bring a plant employee to the site then perform the following:
 - Contact the Houston County EMA to arrange a route and provide the names of individuals that require access to the plant for relay to LLE.
 - Inform the individuals that are coming to the site of the required route to the site and that they must have a company picture ID to get through the roadblocks

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.
- ___ 7. Determine what should be done with a unit that is not affected by the declared emergency. Consider the effect on the emergency unit, manpower utilization, plant and grid stability and other relevant factors.

H. Off Site Support

- ___ 1. Ensure Field Monitoring teams have been dispatched per EIP-4.0.
- ___ 2. Provide information to the EOF 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 concerns**

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs.
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.
- ___ 3. If an LOSP has occurred evaluate the event to ensure that an adequate supply of fuel oil is available for the Diesel Generators for 7 days. Refer to REA 00-2337 and FNP-0-SOP-42.0 Figure 1.

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.

SHARED GUIDELINE 2

SITE AREA EMERGENCY ORANGE VERBAL 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. 4662 or 4663
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 S7.4 S7.5 S7.6 S7.7 S8.1 S8.2
 Failed Barriers: RCS Containment Fuel Clad none Heat Removal Sys Inadequate
- 10 Emergency Releases: A None C Is Occurring
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
- AND** In all affected areas: Monitor environmental radiation levels, located and evacuate hot spots and implement control and possible confiscation of food and water supplies and consider evacuation of children and pregnant women.
- E Other _____

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

- A. _____ Line 1 check box A or B.
- B. _____ Line 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- C1. _____ Line 7 check the box(es) for the criteria requiring this emergency classification (only one required).
- C2. _____ Check all failed barriers or none, check heat removal inadequate if appropriate.
- C3. _____ If more information is required, list it on a separate page, read it over the ENN when line 7 is read.
- D. _____ Line 10 if an Emergency Radioactive release is in progress, check box C otherwise check box A.
- E. _____ Line 14-enter the current met data (35 foot elevation preferred) from PPC (ERDS) or the BOP.
- F. _____ Line 15 indicated the PARs required for this declaration, (normally 15A, none for SAE). If PARs are required, indicate by selecting the down wind zones in lines C and D1 or D2. Use line E if necessary.
- 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.

Alabama Radiation Control **OR** State Troopers
OR Houston Co. Time _____ Name _____ Acknowledged
 GEMA **OR** 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 VERBAL NOTIFICATION FORM

SOUTHERN LINC ENN INSTRUCTIONS FOR INITIAL NOTIFICATION

1. Press group pushbutton, verify display shows WIDE AREA, FEP ENN. Correct per step 6 below if necessary. Pickup handset or leave in cradle, press to talk (PTT), wait for the chirp and announce "This is name/title at Farley Nuclear Plant. Please obtain a SITE AREA EMERGENCY ORANGE initial notification form and monitor the ENN." Release the PTT.
2. PTT and request a state level agency (see NOTIFICATION MEANS table below) for Alabama and Georgia, a county level agency for Houston County (not required IF Alabama Radiation Control is 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 "Alabama Radiation Control at Montgomery EOC are you on the line?" Release the PTT after each request to allow the party to answer
- 3 PTT 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. Release the PTT after reading two or three lines to allow individuals to respond.
4. Have the agencies contacted above, acknowledge receipt of the message and fill in the checkbox on previous page when they do.
5. 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 as soon as possible.
6. If the display does not show "WIDE AREA, FEP ENN" when group is pressed, press the button with the square until the top line is indicated, then press the arrow buttons until "WIDE AREA" is displayed, then press the button under OK. Press the button with the square until the second line is indicated then press the arrow buttons until "FEP ENN" is displayed, then press the button under OK

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

| | |
|--|--|
| <p>ALABAMA State Agencies In preferred order Alabama Radiation Control at Montgomery EOC ENN (1305), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery ENN (1303), phone (334-242-4378, 4379) Alabama Radiation Control at Alabama Forward EOC ENN (1307), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY ENN(1307), 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 (1304), OPX (6629), Phone (404-635-7200) FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (229-723-4826) FAX (8-257-2455) EARLY COUNTY ENN(1308) ENN(41) OPX (6622)FAX(8-276-4655) phone(229-723-3577, 3578, 4826)</p> |
| <p>AEMA COURTESY NOTIFICATION ENN (1306)</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 VERBAL 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, follow-up message as soon as possible.
- M ___ Fax Figure 6, side 1, to state and local agencies as soon as possible, but within 30 minutes of the verbal notification 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.

SHARED

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 EOF 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.

SHARED

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

SHARED

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)

SHARED

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.

SHARED

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

NOTE: A fire or explosion potentially affecting ECCS is one that has directly affected the ability of one train of ECCS (high head, low head or accumulators specifically) to perform its intended function. This does not include attendant equipment if alternate means of performing the attendant equipment functions are available.

- A7.8 Fire or explosion potentially affecting ECCS

8.0 SECURITY/EVACUATION

- A8.1 A security emergency involving the occurrence or credible 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.

SHARED

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.

A. Notify personnel on site

- ___ 1. If the Plant Emergency alarm has not already been activated, then announce over the public address system "All Plant Personnel Report to Designated Assembly Area," activate the PEA for 30 seconds and repeat the announcement.
- ___ 2. Announce the classification and the condition, request setup of the TSC and EOF, and give needed evacuation instructions over plant public address system.

B. Callout the ERO staff

- ___ 1.. Activate the ERO callout system per FNP-0-EIP-8.3, Table 2.

C. Complete Notification form

- ___ C. Fill in the ALERT Initial Notification Form (last two pages of this guideline).

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE OPERATIONS SHIFT COMMUNICATOR, 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

- ___ 1. On-call Emergency Director
- ___ 2. On-call EOF Manager
- ___ 3. SNC Duty Manager
- ___ 4. 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

SHARED

GUIDELINE 3

ALERT

- ___ 6. If there is a security event involved, ensure appropriate notifications and actions of FNP-0-AOP-49 and FNP-0-SP 37.0 are performed
- ___ 7. If there is a security event involved and access to the plant from off site is restricted by local law enforcement (LLE) and it is desired to bring a plant employee to the site then perform the following:
- Contact the Houston County EMA to arrange a route and provide the names of individuals that require access to the plant for relay to LLE.
 - Inform the individuals that are coming to the site of the required route to the site and that they must have a company picture ID to get through the roadblocks

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
- ___ 7. Determine what should be done with a unit that is not affected by the declared emergency. Consider the effect on the emergency unit, manpower utilization, plant and grid stability, and other relevant factors.

H. Off Site Support

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

SHARED

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 concerns

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage
- ___ 3. If an LOSP has occurred evaluate the event to ensure that an adequate supply of fuel oil is available for the Diesel Generators for 7 days. Refer to REA 00-2337 and FNP-0-SOP-42.0 Figure 1.

L. Protective action recommendation guidance

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

GUIDELINE 3

ALERT

YELLOW VERBAL 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. 4662 or 4663
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
10. Emergency Releases: None Is Occurring
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 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- C1. Line 7 check the box(es) for the criteria requiring this emergency classification (only one required).
- C2. Check all failed barriers or none; check heat removal inadequate if appropriate.
- C3. If more information is required, list it on a separate page; read it over the ENN when line 7 is read.
- D. Line 10 if an Emergency Radioactive release is in progress check box C otherwise check box A
- 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.

Alabama Radiation Control OR State Troopers
OR Houston Co. Time _____ Name _____ Acknowledged
 GEMA OR Early County Time _____ Name _____ Acknowledged
 If AEMA is not on the ENN, they are not required to be notified.
 AEMA Time _____ Name _____ Acknowledged
 H. Proceed to the following page for the REMAINING NOTIFICATIONS at step I.

SHARED**GUIDELINE 3****ALERT****YELLOW VERBAL NOTIFICATION FORM****SOUTHERN LINC ENN INSTRUCTIONS FOR INITIAL NOTIFICATION**

1. Press group pushbutton, verify display shows WIDE AREA, FEP ENN. Correct per step 6 below if necessary. Pickup handset or leave in cradle, press to talk (PTT), wait for the chirp and announce "This is name/title at Farley Nuclear Plant. Please obtain a ALERT YELLOW initial notification form and monitor the ENN." Release the PTT.
2. PTT and request a state level agency (see NOTIFICATION MEANS table below) for Alabama and Georgia, a county level agency for Houston County (not required IF Alabama Radiation Control is 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 "Alabama Radiation Control at Montgomery EOC are you on the line?" Release the PTT after each request to allow the party to answer.
3. PTT and announce on the ENN "Please prepare to receive a ALERT YELLOW initial notification message with acknowledgment", then slowly read the Alert initial notification form over the ENN. Release the PTT after reading two or three lines to allow individuals to respond.
4. Have the agencies contacted above, acknowledge receipt of the message and fill in the checkbox on previous page when they do.
5. 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 as soon as possible.
6. If the display does not show "WIDE AREA, FEP ENN" when group is pressed, press the button with the square until the top line is indicated, then press the arrow buttons until "WIDE AREA" is displayed, then press the button under OK. Press the button with the square until the second line is indicated then press the arrow buttons until "FEP ENN" is displayed, then press the button under OK.

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

ALABAMA State Agencies In preferred order
Alabama Radiation Control at Montgomery EOC
 ENN (1305), OPX (6628), phone (334-242-4378)
 FAX (334-264-4396)

State Troopers in Montgomery
 ENN (1303), phone (334-242-4378, 4379)

Alabama Radiation Control at Alabama Forward EOC

ENN (1307), OPX 6621), phone (334-793-1565)
 FAX (8-257-1535)

HOUSTON COUNTY
 ENN(1307), OPX (6621),
 FAX(8-257-1535)

phone (334-794-9720, 793-9655, 334-677-4807, 4808)

AEMA COURTESY NOTIFICATION
 ENN (1306)

GEORGIA State Agencies In preferred order
GEMA at Atlanta EOC
 ENN (1304), OPX (6629), Phone (404-635-7200)
 FAX (404-627-4850)

GEMA at Georgia Forward EOC
 ENN (22) OPX (6626) phone (229-723-4826)
 FAX (8-257-2455)

EARLY COUNTY
 ENN(1308) ENN(41) OPX (6622) FAX(8-257-2455)
 phone(229-723-3577, 3578, 4826)

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 VERBAL 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, follow-up message as soon as possible.
- L _____ Fax Figure 6 side 1, to state and local agencies as soon as possible, but within 30 minutes of the verbal notification 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.

SHARED

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

SHARED

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. 3.4.16 limit that requires shutdown or Dose Equivalent Iodine greater than T.S. Figure 3.4.16-1 20% limit.

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.

SHARED

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.

NOTE: Any fire or explosion affecting the following two types of systems, such that the train or system cannot perform its intended function or be used to maintain safe shutdown, would be used to declare a NOUE per N7.7 or N7.8:

1. A safety related system other than ECCS (i.e. safety related system excluding high head, low head or accumulators).
2. A non-safety related nuclear process system (e.g. BTRS, GFFD, etc).

- 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.

SHARED
GUIDELINE 4

NOUE

8.0 SECURITY/EVACUATION

N8.1 Attempted unauthorized entry into a vital area, attempted sabotage of vital equipment or a plant specific credible threat notification. 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.

SHARED

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. Notify personnel on site

- ___ 1. Announce the classification and condition and give needed evacuation instructions over plant public address system.
- ___ 2. Evacuate affected areas of the plant as appropriate.

B. Callout the ERO staff as appropriate

- ___ 1.. Activate the ERO callout system per FNP-0-EIP-8.3, Table 2. if it is desired to callout the entire TSC and EOF staff. For partial staffing refer to steps E1 and E2 and the note above E1.

C. Complete Notification form

- ___ 1.. Fill in the NOUE Initial Notification Form (last two pages of this guideline).

NOTE: INITIAL NOTIFICATIONS WILL NORMALLY BE MADE BY THE OPERATIONS SHIFT COMMUNICATOR, 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).

SHARED

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/EOF MANAGER. SEE EIP-6/27 FOR GUIDANCE. THE COMPLETE EOF AND TSC STAFF CAN BE CALLED OUT USING THE ERO CALLOUT SYSTEM PER FNP-0-EIP-8.3, TABLE 2 AND STEP 11 IF DESIRED.

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

SHARED

GUIDELINE 4

NOUE

F. Other Notifications

- ___ 1. NRC (Perform immediately after state notification and within one hour of declaration per Figure 6, side 2).
- ___ 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
- ___ 5. If there is a security event involved, ensure appropriate notifications and actions of FNP-0-AOP-49 and FNP-0-SP 37.0 are performed.
- ___ 6. If there is a security event involved and access to the plant from off site is restricted by local law enforcement (LLE) and it is desired to bring a plant employee to the site then perform the following:
 - Contact the Houston County EMA to arrange a route and provide the names of individuals that require access to the plant for relay to LLE.
 - Inform the individuals that are coming to the site of the required route to the site and that they must have a company picture ID to get through the roadblocks

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.

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GUIDELINE 4

NOUE

- ___ 7. Determine what should be done with a unit that is not affected by the declared emergency. Consider the effect on the emergency unit, manpower utilization, plant and grid stability, and other relevant factors.

H. Off- Site Support

- ___ 1. Ensure Field Monitoring teams have been dispatched per EIP-4.0.
- ___ 2. Provide information to the EOF 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.

K. Long term concerns

- ___ 1. Within 8 hours, provide for full TSC and OSC reliefs.
- ___ 2. Within 16 hours, provide for 24 hour TSC and OSC coverage.
- ___ 3. If an LOSP has occurred evaluate the event to ensure that an adequate supply of fuel oil is available for the Diesel Generators for 7 days. Refer to REA 00-2337 and FNP-0-SOP-42.0 Figure 1.

L. Protective action recommendation guidance

- ___ 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 VERBAL 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. 4662 or 4663
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
- 10 Emergency Releases: A None C Is Occurring
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 6 fill in the declaration time/date (time that you evaluated the condition in procedure).
- C1. Line 7 check the box(es) for the criteria requiring this emergency classification (only one required).
- C2. Check all failed barriers or none; check heat removal inadequate if appropriate.
- C3. If more information is required, list it on a separate page; read it over the ENN when line 7 is read.
- D. Line 10 if an Emergency Radioactive release is in progress, check box C; otherwise, check box A.
- 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.

Alabama Radiation Control OR State Troopers
OR Houston Co. Time _____ Name _____ Acknowledged
 GEMA OR Early County Time _____ Name _____ Acknowledged
 If AEMA is not on the ENN, they are not required to be notified.
 AEMA Time _____ Name _____ Acknowledged
 H. Proceed to the following page for the REMAINING NOTIFICATIONS at step I.

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GUIDELINE 4 NOTIFICATION OF UNUSUAL EVENT BLUE VERBAL NOTIFICATION FORM

SOUTHERN LINC ENN INSTRUCTIONS FOR INITIAL NOTIFICATION

1. Press group pushbutton, verify display shows WIDE AREA, FEP ENN. Correct per step 6 below if necessary. Pickup handset or leave in cradle, press to talk (PTT), wait for the chirp 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." Release the PTT.
2. PTT and request a state level agency (see NOTIFICATION MEANS table below) for Alabama and Georgia, a county level agency for Houston County (not required IF Alabama Radiation Control is 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 "Alabama Radiation Control at Montgomery EOC are you on the line?" Release the PTT after each request to allow the party to answer.
3. PTT and announce on the ENN "Please prepare to receive a Notification of Unusual Event BLUE initial notification message with acknowledgment", then slowly read the Notification of Unusual Event initial notification form over the ENN. Release the PTT after reading two or three lines to allow individuals to respond.
4. Have the agencies contacted above, acknowledge receipt of the message and fill in the checkbox on previous page when they do.
5. 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 as soon as possible.
6. If the display does not show "WIDE AREA, FEP ENN" when group is pressed, press the button with the square until the top line is indicated, then press the arrow buttons until "WIDE AREA" is displayed, then press the button under OK. Press the button with the square until the second line is indicated then press the arrow buttons until "FEP ENN" is displayed, then press the button under OK

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

| | |
|---|---|
| <p>ALABAMA State Agencies In preferred order Alabama Radiation Control at Montgomery EOC ENN (1305), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery ENN (1303), phone (334-242-4378, 4379) Alabama Radiation Control at Alabama Forward EOC ENN (1307), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY ENN(1307), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808) AEMA COURTESY NOTIFICATION ENN (1306)</p> | <p>GEORGIA State Agencies In preferred order GEMA at Atlanta EOC ENN (1304), OPX (6629), Phone (404-635-7200) FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (229-723-4826) FAX (8-257-2455) EARLY COUNTY ENN(1308) ENN(41) OPX (6622) FAX(8-257-2455) phone(229-723-3577, 3578, 4826)</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 VERBAL 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, follow-up message as soon as possible.
- L Fax Figure 6, side 1, to state and local agencies as soon as possible, but within 30 minutes of the verbal notification 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.

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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

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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 |
| Emergency News 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 EOF MANAGER/ED).

- * NO ACTION, STANDBY OR ACTIVATE AT THE DISCRETION OF THE EMERGENCY DIRECTOR
- ** NO ACTION, STANDBY OR ACTIVATE AT THE DISCRETION OF THE EOF MANAGER
- *** STANDBY OR ACTIVATE AT THE DISCRETION OF THE EOF 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 EOF 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 ERO Callout System to activate.
6. Consider use of alternate facilities for the TSC and EOF staffs.
7. If the ERO Callout system is used to activate the TSC and EOF staffs, consider using message number 2 to have the EOF and TSC staffs report to the Alternate EOF.
8. After security reports that the security hazards have been eliminated, return to full implementation of the EIPs as appropriate.

SHARED**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 (Emergency News 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

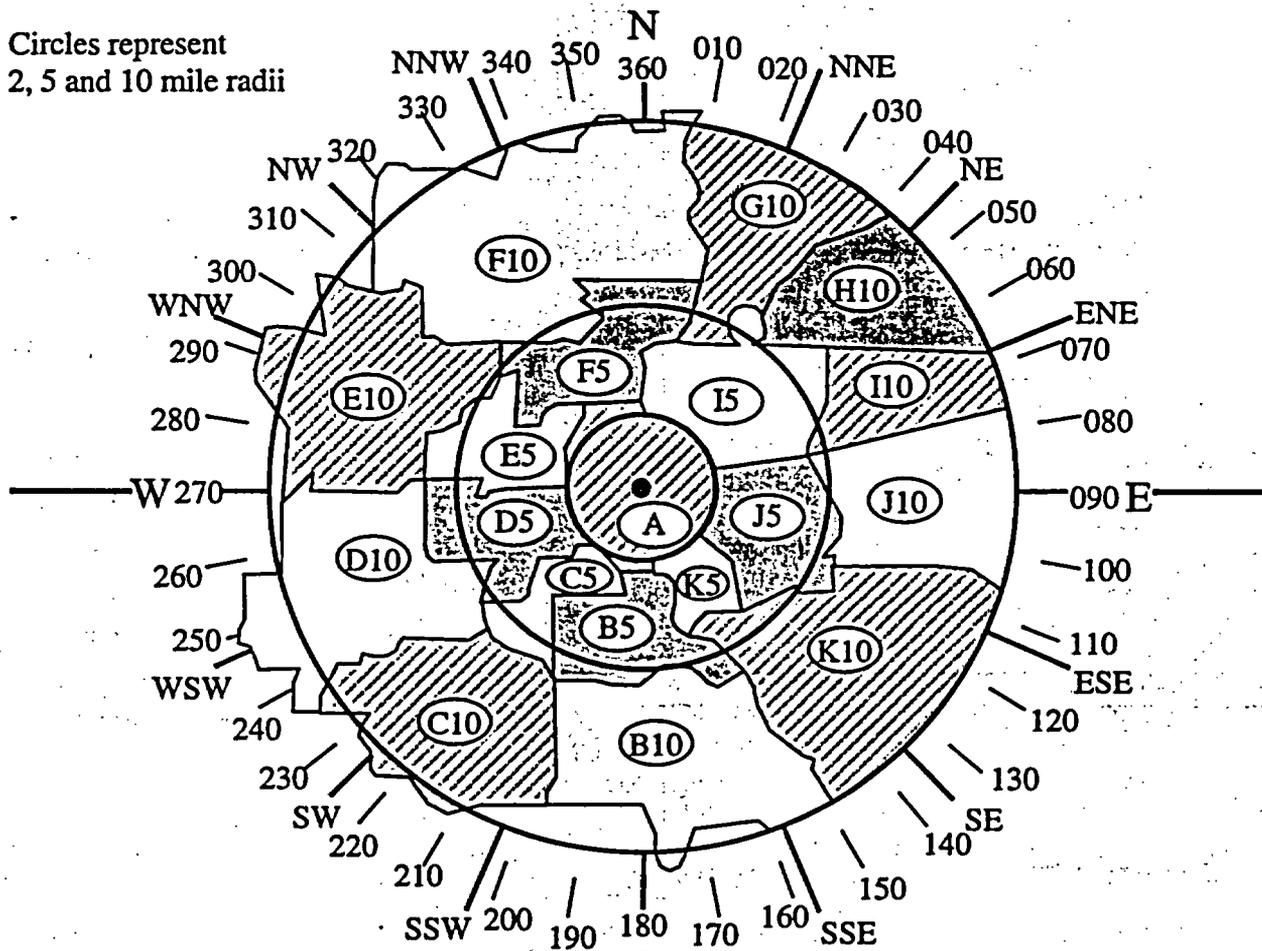
| Zones | WD | WN | WE | AW |
|---------|-----|-----|-----|-----|
| 5 Mile | 105 | 90 | 95 | 110 |
| 10 mile | 115 | 100 | 105 | 120 |

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

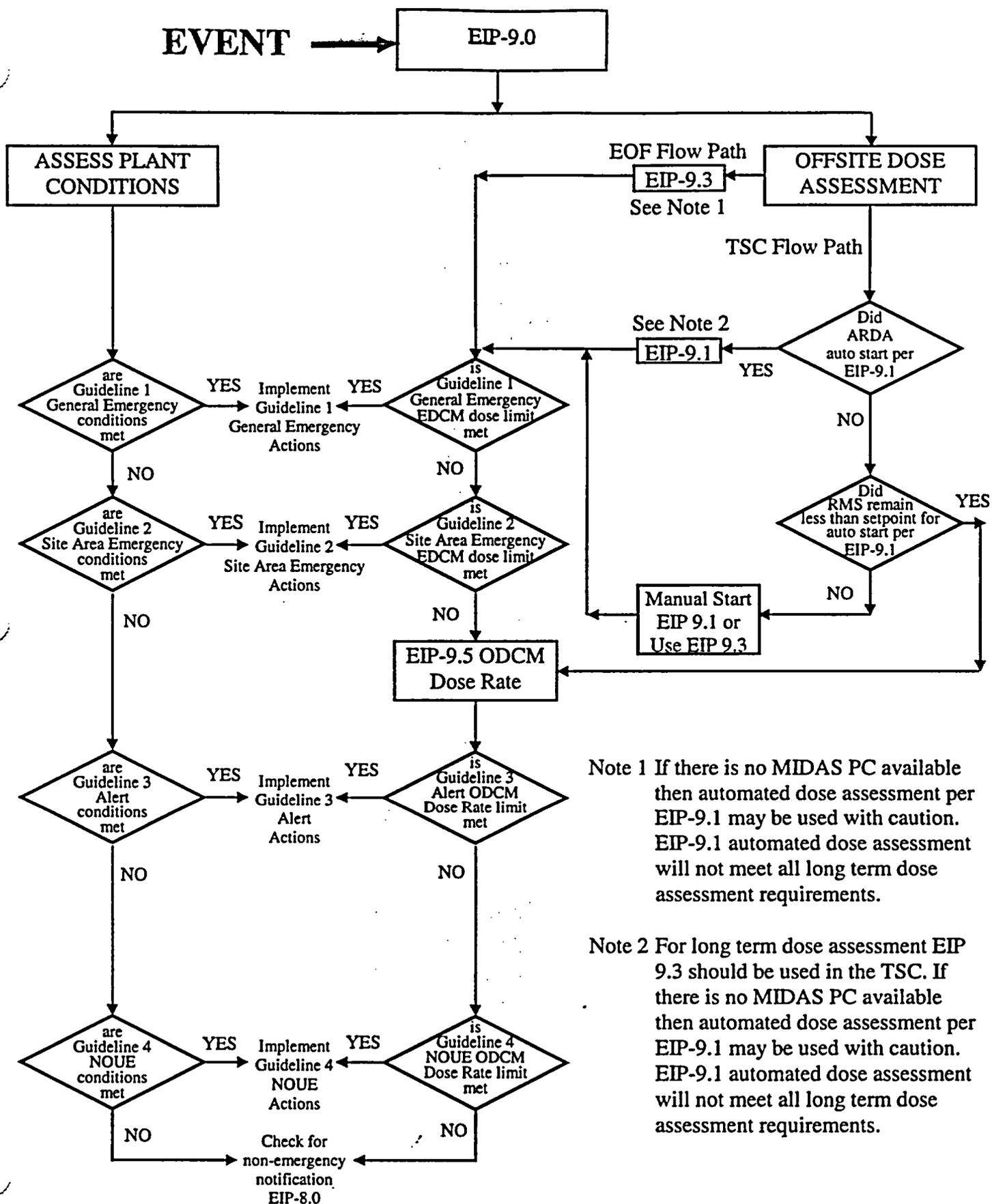
| Zones | WD | WN | WE | AW |
|---------|-----|-----|-----|-----|
| 5 Mile | 100 | 95 | 95 | 105 |
| 10 mile | 140 | 110 | 115 | 150 |

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



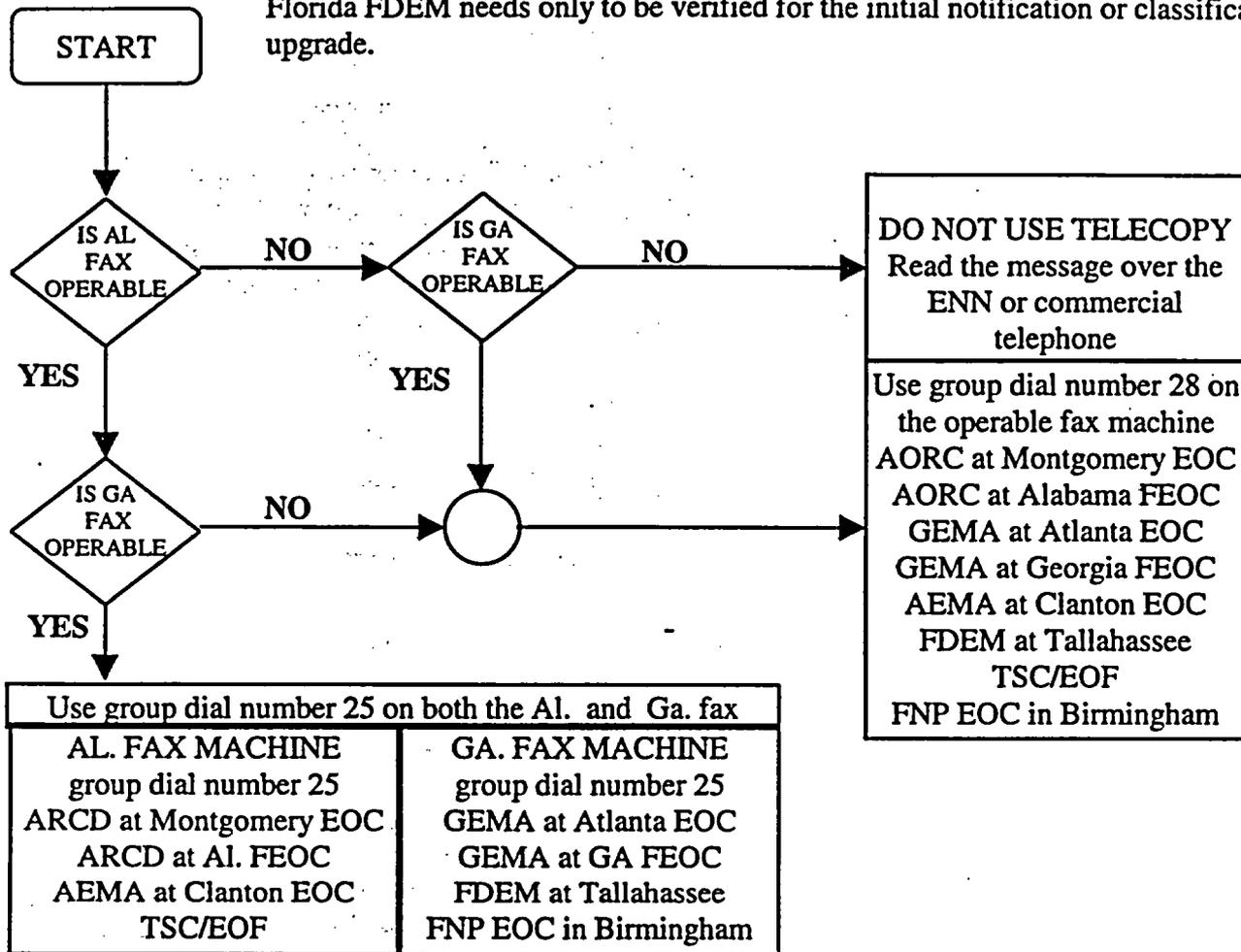
Note 1 If there is no MIDAS PC available then automated dose assessment per EIP-9.1 may be used with caution. EIP-9.1 automated dose assessment will not meet all long term dose assessment requirements.

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

Teletype (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 teletype 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. [A] This is a Drill [B] Actual Emergency [C] Initial [D] 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 (Number) N/A (Codeword)

5. Emergency Classification:
[A] Notification Of Unusual Event [B] Alert [C] Site Area Emergency [D] General Emergency

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

7. Emergency Description/Remarks: _____

Problems Include: [A] RCS Leaking [B] Containment Leaking [C] Fuel Damage Indicated [D] Heat Removal Systems Inadequate [E] Additional comments on following page

8. Plant Condition: [A] Improving [B] Stable [C] Degrading [D] FMTs Dispatched [E] Site Evacuation

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

10. Emergency Releases:
[A] None (go to item 14) [B] Potential (go to item 14) [C] Is Occurring [D] Has Occurred

11. Type of Release [A] Ground Level [B] Mixed Mode
[C] Airborne: Started: _____ / _____ / _____ [D] Stopped: _____ / _____ / _____
Time (central) Date Time (central) Date
[E] Liquid: Started: _____ / _____ / _____ [F] Stopped: _____ / _____ / _____
Time (central) Date Time (central) Date

12. Release Magnitude [A] μ Curie per Sec. [B] Curies Tech. Specification Limits [C] Below [D] Above
[E] Noble Gases [F] Iodines
[G] Particulates [H] Other

13. Estimate Of Projected Off Site Dose [A] New [B] Unchanged [C] Estimated Duration: _____ Hrs.
TEDE (mrem) Thyroid CDE (mrem) [L] Accident Type _____
Site Boundary [D] _____ [E] _____
2 miles [F] _____ [G] _____
5 miles [H] _____ [I] _____
10 miles [J] _____ [K] _____

14. Meteorological Data [A] Wind Direction (from) _____ ° [B] Speed(mph) _____
[C] Stability Class _____ [D] Precipitation (type) _____

15. Actions:
[A] There are no recommended protective actions.
[B] We would like to discuss recommended protective actions.
[C] Evacuate and control access in down wind zone(s) _____
[D] Shelter and control access in down wind zone(s) _____

AND 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.

[E] Other _____

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

* If items 9 - 13 have not changed, only items 1 - 8 and 14 - 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 30 minutes of the verbal notification.

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

| Person Contacted | Date/Time |
|------------------|--|
| _____ | Alabama Radiation Control at Montgomery EOC |
| _____ | Alabama Radiation Control at Alabama FEOC (Houston County) |
| _____ | GEMA at Atlanta EOC |
| _____ | GEMA at Georgia FEOC (Early County) |
| _____ | AEMA at Clanton EOC |
| _____ | FDEM at Tallahassee |
| _____ | TSC/EOF |
| _____ | CEOC in Birmingham |

| NOTIFICATION MEANS (underlined numbers are available 24 hours a day) | |
|--|---|
| ALABAMA State Agencies In preferred order Alabama Radiation Control at Montgomery EOC ENN (1305), OPX (6628), phone (334-242-4378) FAX (334-264-4396) State Troopers in Montgomery ENN (1303), phone (334-242-4378, 4379) Alabama Radiation Control at Alabama Forward EOC ENN (1307), OPX 6621), phone (334-793-1565) FAX (8-257-1535) HOUSTON COUNTY ENN(1307), OPX (6621), FAX(8-257-1535) phone (334-794-9720, 793-9655, 334-677-4807, 4808) | GEORGIA State Agencies In preferred order GEMA at Atlanta EOC ENN (1304), OPX (6629), Phone (404-635-7200) FAX (404-627-4850) GEMA at Georgia Forward EOC ENN (22) OPX (6626) phone (229-723-4826) FAX (8-257-2455) EARLY COUNTY ENN(1308) ENN(41) OPX (6622)FAX(8-257-2455) phone(229-723-3577, 3578, 4826) |
| AEMA COURTESY NOTIFICATION ENN (1306) | FLORIDA State Agency Florida Department of Emergency Management phone (800-320-0519) (850-413- 9911) FAX (850-488-7841) |

Figure 6 side 2
Version 51

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 |

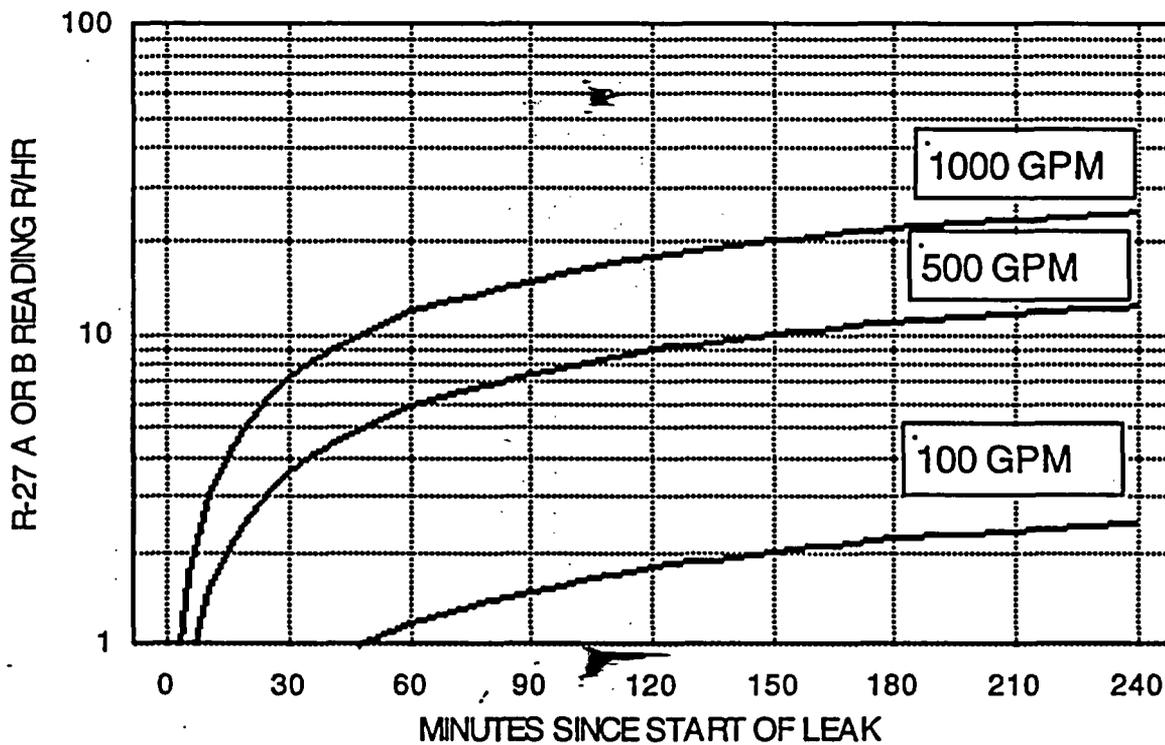


FIGURE 8
Version 51