

10/16/91  
14139

FARLEY NUCLEAR PLANT INFORMATION MANAGEMENT SYSTEM  
CDD DOCUMENT TRANSMITTAL FORM

FPARS200  
PAGE 1

FOR DOCUMENTS TRANSMITTED TO DOCUMENT CONTROL DESK

TRANSMITTAL DATE: 10/16/91

TRANSMITTAL NUMBER: 97921

DOCUMENT NUMBER	SHEET NUMBER	REVISION NUMBER	CDPT NUMBER	DOCUMENT CATEGORY	REST. USE DATE
PNP-O-FIP -0015 .0000		020	038	H6-17	
PNP-O-EP -0000 .0003		020	035	H6-67	
TOTAL TRANSMITTALS FOR DOCUMENT CONTROL DESK			1	902	

\*\*\*\*\* INSTRUCTIONS TO ADDRESSEE \*\*\*\*\*

- (1) VERIFY THE DOCUMENTS RECEIVED AGREE WITH THE ABOVE DESCRIPTION.
- (2) INCORPORATE THE TRANSMITTED DOCUMENTS INTO YOUR FILLS.
- (3) DOCUMENTS OR PORTIONS OF DOCUMENTS WHICH ARE SUPERCEDED BY THE ABOVE MUST BE DESTROYED.
- (4) SIGN IN THE SPACE BELOW INDICATING THAT YOU HAVE COMPLETED THESE INSTRUCTIONS AND RETURN THIS FORM TO THE DOCUMENT CONTROL SUPERVISOR AT PLANT FARLEY.

SIGNATURE OF ADDRESSEE \_\_\_\_\_

9110240152 511016  
PDR ADOCK 05000348  
F PDR

ADH 15 1/1

ALABAMA POWER COMPANY

JOSEPH M. FARLEY NUCLEAR PLANT

UNITS 1 & 2

EMERGENCY PLAN

S  
A  
F  
E  
T  
Y

R  
E  
L  
A  
T  
E  
D

APPROVED:

*[Signature]*  
VICE PRESIDENT - NUCLEAR

*10/15/91*  
Date Approved

*[Signature]*  
GENERAL MANAGER-FARLEY NUCLEAR PLANT

*10/15/91*  
Date Approved

DOCUMENT CONTROL  
CONTROLLED COPY  
DO NOT REPRODUCE  
COPY NO. *035*

Revision 20

Nuclear Plant. The Emergency Plans for Alabama, Georgia, and Florida are given in ANNEX I, ANNEX II, and ANNEX III, respectively.

The criteria to be used for offsite protective action recommendations is given below. The basis for protective action guides is "Protective Action Evaluation Part II, Evacuation and Sheltering, Protective Actions Against Nuclear Accidents Involving Gaseous Releases", EPA-520/1-78-001B. It should be noted that these levels are quite low and are used as guidelines for protective action rather than rigid levels of action. Recommendation of sheltering in residences shall be considered when the projected time of exposure in the area of the residence, is less than 3 hours or when transit time (see Appendix E for evacuation time estimates) and meteorological conditions would cause cumulative exposure time to be received in transit to exceed 50% of the total exposure time. Areas within a ten mile radius in which protective action is deemed necessary will be referred to by Evacuation Zone as shown in Figure 21. The population distribution within this ten-mile radius has been predicted for the life of the plant and is summarized graphically in Figure 22.

a. Classification of Offsite Incidents

<u>APCo Classification</u>	<u>Projected Dosage</u>	<u>Organ or Media Involved</u>
GENERAL	5.0 rem	Whole Body
	10.0 rem	Thyroid
SITE AREA	1.0 rem	Whole Body
	2.5 rem	Thyroid
ALERT	1 mr/hr at site boundary	Whole Body Thyroid

b. Response

<u>Classification</u>	<u>Protective Actions to be Recommended to State Authorities</u>
GENERAL	Recommendations based on plant conditions: <ol style="list-style-type: none"> <li>1) Immediate evacuation for Zone A and for five-mile downwind zones.</li> <li>2) Shelter remainder of plume EPZ.</li> <li>3) Control access to the affected areas.</li> </ol>

Classification

Protective Actions to be Recommended  
to State Authorities

Recommendations based on projected dose:

- 1) Immediate evacuation for Zone A and for five-mile downwind zones.
- 2) Shelter remainder of plume EPZ.
- 3) Control access to the affected areas.
- 4) Locate and evacuate hot spots.
- 5) Control of food and water supplies and possible confiscation in certain sectors.
- 6) Monitor environmental radiation levels.

SITE AREA

Recommendations based on plant conditions are at the discretion of the ED as appropriate.

Recommendations based on projected dose:

- 1) Shelter Zone A and 5 mile downwind zones.
- 2) Monitor environmental radiation levels.
- 3) Control access.
- 4) Consider evacuation of children and pregnant women.

ALERT

Recommendations are to be made at the discretion of the ED based on plant conditions or projected dose.

The authority for recommending initiation or relaxation of protective measures is vested solely with the Emergency Director and Recovery Manager and may not be delegated to any other member of the emergency organization.

FARLEY NUCLEAR PLANT  
EMERGENCY PLAN IMPLEMENTING PROCEDURE  
FNP-0-EIP-15

S  
A  
F  
E  
T  
Y

EMERGENCY DRILLS

R  
E  
L  
A  
T  
E  
D

PROCEDURE USAGE REQUIREMENTS	SECTIONS
CONTINUOUS USE - Each step of the procedure is to be read prior to performing that step. Each step is to be performed in the sequence given. Where required, each step is to be signed off as complete before proceeding to the next step.	
REFERENCE USE - The procedure is to be referred to periodically to confirm that all required parts of a work activity have been performed. Where required, steps are to be signed off to show that procedure requirements have been met.	FIGURE 2
INFORMATION USE - An activity may be performed from memory, but the procedure should be available for use as needed and for training.	REMAINDER

Approved:

*07 Mary*  
General Manager - Nuclear Plant

Date Issued: 10-16-91

List-of-Effective-Pages  
Page Rev.

1 14  
2-7 19  
Figure 1 13  
Figure 2 20

EIP-15/2

DOCUMENT CONTROL  
CONTROLLED COPY  
DO NOT REPRODUCE  
COPY NO 038

## EMERGENCY DRILLS

1.0 Purpose

This procedure provides instructions and describes responsibilities for conducting emergency plan drills and testing communications networks.

2.0 References

- 2.1 Joseph M. Farley Nuclear Plant Emergency Plan
- 2.2 IE letter (Lewis to McDonald) dated October 11, 1984: Submittal of Annual Emergency Exercise Objectives and Detailed Scenarios
- 2.3 FNP-0-STP-60.0, Emergency Communications Operability Tests
- 2.4 FNP-0-EIP-8, Emergency Communications
- 2.5 FNP-0-AP-27, Training Group Conduct of Operations

3.0 General

- 3.1 Preplanned exercises simulating emergencies will be conducted to:
  - 3.1.1 Determine the effectiveness of the FNP emergency organization in handling emergencies.
  - 3.1.2 Evaluate communication and action support with offsite agencies.
  - 3.1.3 Evaluate the interface with and response of the company emergency organization.
  - 3.1.4 Test the adequacy of timing and contents of the EIP's.
  - 3.1.5 Test emergency equipment and communications networks.
  - 3.1.6 Test the public prompt notification system.
  - 3.1.7 Keep affected personnel aware of their role in the plan.
- 3.2 The scenarios for use in these drills will be written and include the following elements:
  - 3.2.1 The basic objective
  - 3.2.2 The date, time, place(s) and participating organizations.



- 3.2.3 The simulated event
- 3.2.4 A time schedule of real and simulated events.
- 3.2.5 A narrative summary describing conduct of the drill.
- 3.3 Each emergency alarm or announcement shall be considered valid unless an announcement is made to the contrary.
- 3.4 Each individual at the Farley Nuclear Plant (FNP) shall participate in emergency plan drills unless specifically exempted by the General Manager - Nuclear Plant.
- 3.5 The General Manager - Nuclear Plant shall evaluate the plant operating status and ascertain that the drill will not adversely affect plant operations or equipment or the health and safety of the general public.
- 3.6 Audit observers shall be stationed at various locations to observe the performance of emergency personnel.
- 3.7 All drills shall be coordinated with the shift supervisor to the extent necessary to prevent an adverse effect on plant operations.
- 3.8 Normal security controls shall be maintained during all drills.
- 3.9 Required drills listed in 5.3 may be conducted in the course of the same exercise.
- 3.10 Post drill critique deficiencies and observations are normally outlined in the following categories:
  - 3.10.1 Findings: Items of a significant nature that could result in failure to meet an exercise objective. Items of a significant nature that are repeated from a previous drill.
  - 3.10.2 Comments: Isolated cases of personal, procedural, equipment or scenario inadequacies or strengths noted during the conduct of a drill.
  - 3.10.3 Recommendations: Observations made during the conduct of a drill that result in suggestions to enhance the various aspects of the plants emergency response.

#### 4.0 Responsibilities (See Figure 1)

- 4.1 As directed by the General Manager - Nuclear Plant, the Training Manager will coordinate the scheduling and conduct of drills. He will be provided with technical assistance from the Environmental (ENV) Supervisor and a software individual in the Computer Services Group. The Training staff, software individual and ENV Supervisor are the only FNP personnel authorized to review drill scenarios without approval of the General Manager - Nuclear Plant. The Training Manager will be responsible for the following general elements of drills:
  - 4.1.1 Scenario development
  - 4.1.2 Drill Audit Observer assignments
  - 4.1.3 Drill execution
  - 4.1.4 Post drill critiques
  - 4.1.5 Emergency Plan training for APCO employees
  - 4.1.6 Scheduling of Emergency Plan training for non-APCO personnel.
- 4.2 The General Manager - Nuclear Plant, Assistant General Manager - Operations, or the Assistant General Manager - Support will approve the final drill scenario. One of the above positions which is not scheduled to participate in the drill will be the approval authority.
- 4.3 The ENV Supervisor will provide the following assistance to the Training Manager as requested:
  - 4.3.1 Technical assistance for scenario development
  - 4.3.2 Drill audit observer personnel
  - 4.3.3 Personnel as instructors for Emergency Plan training for APCO and non-APCO employees.
- 4.4 The software individual will prepare an EDCM simulation of the drill and run the simulation during the conduct of the drill. He will take out an admin LCO with the Shift Supervisor during any periods in which real EDCM capability is overridden.
- 4.5 The ENV Supervisor will be responsible for tracking corrective action items identified in the critique of the annual emergency exercise. These items may include those generated by FNP personnel and/or Nuclear Engineering and Licensing (NEL) personnel. Items identified will then be assigned to the responsible group for corrective action.



- 4.6 The Training Manager will plan offsite agency participation via the Manager - Nuclear Engineering and Licensing who conducts liaison with such agencies. The following drill planning milestones should be followed for the annual emergency exercise.

<u>Information to be Submitted</u>	<u>Submittal to NTS</u>	<u>Submittal to NRC</u>
Description of scope of exercise and objectives to be fulfilled	85 days prior to exercise	75 days prior to exercise
Complete exercise scenario with all controller information and simulation data	55 days prior to exercise	45 days prior to exercise

### 5.0 Procedure

- 5.1 Testing of the Plant Emergency Alarm shall be as follows:

- 5.1.1 Operations will be responsible for scheduling and performing the weekly sounding of the Plant Emergency Alarm.
- 5.1.2 All alarm tests shall be preceded by announcing over the plant public address system that the alarm is to be sounded.
- 5.1.3 All alarm tests shall be concluded when the completion of the test is announced over the plant public address system.

- 5.2 Communications checks shall be conducted as follows:

- 5.2.1 Communications checks will be performed monthly in accordance with FNP-0-STP-60.0 for all locations which are part of the Emergency Notification Network, Emergency Notification System, and Health Physics Network by the Operations Group.
- 5.2.2 The EOF/TSC/QTC intercom system will be tested at least annually by the Operations Group.
- 5.2.3 Communications checks and verification of phone numbers with all other organizations listed in EIP-8 will be performed quarterly by the Environmental and Emergency Planning Group.

- 5.2.4 Radiation Monitoring Team (RMT) communications equipment stored at the EOF will be tested at least annually by the Environmental and Emergency Planning Group.
- 5.2.5 The Prompt Public Notification System will be tested at least once a day by the Security Group.
- 5.2.6 A quarterly test to contact On-Call personnel shall be performed by the Operations Group.
  - 5.2.6.1 This quarterly test will be scheduled by the ENV Supervisor.
  - 5.2.6.2 The ENV Supervisor will obtain permission from the On-Call Emergency Director prior to the day of the quarterly test.
  - 5.2.6.3 The on-call ENV Supervisor will notify the Unit 2 Shift Supervisor to conduct the test.
  - 5.2.6.4 The Shift Supervisor will have the test performed as soon as possible following notification.
  - 5.2.6.5 This test will consist of contacting personnel who are on-call for the date and time specified.
  - 5.2.6.6 Operations will document test results by completing Figure 2 and forwarding to the ENV Supervisor.
  - 5.2.6.7 The ENV Supervisor shall review the results of the test, initiate corrective action as necessary and forward a completed copy of Figure 2 to the General Manager.

- 5.3 The following Emergency Plan drills shall be conducted in the periodicity specified below. Required drills may be conducted concurrently in the same exercise.

- 5.3.1 Annual Radiation Emergency Exercise

Exercises simulating radiation emergencies will be held at least annually. These scenarios will be varied from exercise to exercise such that all major elements of the plan and emergency organizations are exercised at least once every 5 years. These exercises will be preplanned and will involve the active participation of local, state and federal agencies.

One (1) exercise may be started between 6 P.M. and midnight and another between midnight and 6 A.M. once every six(6) years. One (1) exercise may be performed every six years which is unannounced, except as required for effective coordination with the management of the various agencies and for the evaluation of the health and safety of the general public.

#### 5.3.2 Fire Drills

- a. Fire Drills will be conducted with fire brigade members as required by the plant technical specifications.
- b. Fire Drills will be conducted annually which will involve the Dothan Fire Department.

#### 5.3.3 Medical Emergency Drills

A medical emergency drill will be conducted annually which will involve ambulance and offsite medical treatment facility participation.

#### 5.3.4 Radiological Monitoring Drills

Radiological monitoring drills will be conducted annually which will include initiating onsite and offsite radiological monitoring of vegetation, soil, water, and air.

#### 5.3.5 Health Physics Drills

Health Physics drills will be conducted semi-annually which will involve response to simulated elevated airborne and liquid samples and direct radiation measurements in the plant environment. Sampling and analysis of the reactor coolant system including using the post-accident sampling system will be conducted annually.

#### 5.3.6 Practice and Table Top Drills

5.3.6.1 Table top drills will be conducted periodically as deemed necessary by FNP management. These drills will involve discussions of responsibilities and actions in response to the emergency conditions of the scenario.

5.3.6.2 Practice drills will be conducted periodically as deemed necessary by FNP management. These drills will involve the FNP emergency response organization (in whole or in part) responding to emergency conditions of the scenario.

- 5.4 At the conclusion of the drill the Emergency Director shall announce that the drill has been terminated.
- 5.5 Appropriate local, state, and federal agencies will be advised of major drills in advance to allow their observation or participation. All observing or participating agencies will be requested to provide comments on drill evaluation to the Training Manager.

---

NOTE: The critique of table top drills will be conducted during and after completion of the drill. No formal written critique is required.

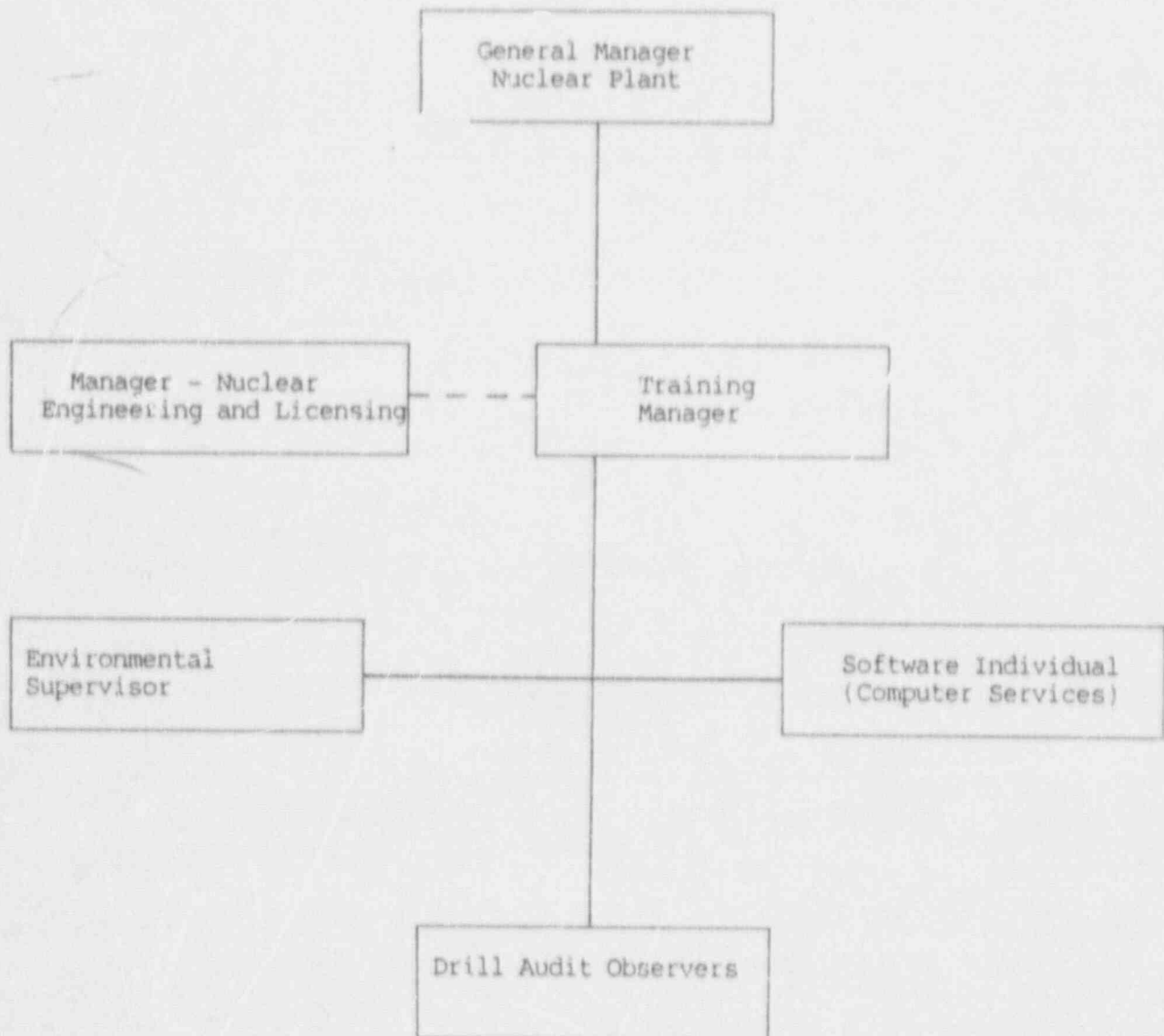
The critique of practices will be conducted as specified in section 5.6; however, results of such critiques are not required to be provided in a formal manner to the Vice President - Nuclear.

---

- 5.6 Upon drill termination, the Training Manager will conduct a post drill critique with the drill observers. Equipment, procedure, performance, training, drill, etc. deficiencies will be summarized in a written critique format. Comments received from offsite agencies will be incorporated in this critique.

The critique will be presented to the Assistant General Manager - Plant Operations and the Assistant General Manager - Plant Support by the Training Manager for review and finalization. Upon completion of this review and finalization, the critique will be forwarded to the General Manager - Nuclear Plant for review. The General Manager - Nuclear Plant may assign improvement items from the critique to appropriate plant staff for action. The General Manager - Nuclear Plant will forward the drill critique to the Vice President - Nuclear for review. The Vice President - Nuclear may assign improvement items to Nuclear Generation staff for action.

- 5.7 Documentation of drill scenario, drill participation and drill critique will be forwarded to Document Control in accordance with FNP-0-AP-27.
- 5.8 The Training Manager will track drill participation by individuals who fill the Emergency Director, Operations Manager, Maintenance Manager, Technical Manager and Health Physics Manager roles. Participation in each role will be rotated.

Emergency Plan Drill Organization



POSITION CONTACTED	INDIVIDUAL CONTACTED	TIME OF CONTACT	ESTIMATED MINUTES OF ARRIVAL	ESTIMATED TIME TO ARRIVAL*
Emergency Director				
Assistant to Emergency Director				
Maintenance Manager				
Operations Manager				
Technical Manager				
Mechanical Support				
I&C Support				
Electrical Support				
Reactor Engineer				
Systems Engineer				
Computer Support				
Licensing Engineer				
GPTS Support				
Health Physics Manager				
Chemistry Supervisor				
Quality Control				
SAER Support				
Environmental Supervisor				
Early Co. Liaison				
Houston Co. Liaison				

\*This column for EP use only

QUARTERLY TEST START DATE/TIME \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

SHIFT SUPERVISOR \_\_\_\_\_

ENVIRONMENTAL SUPV REVIEW \_\_\_\_\_/\_\_\_\_\_

CORRECTIVE ACTION: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_