

FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT UNITS 3 AND 4
EMERGENCY PROCEDURE 20107
MAY 7, 1981

1.0 Title:

FIRE/EXPLOSION EMERGENCIES

2.0 Approval and List of Effective Pages:

2.1 Approval:

Change dated 5/7/81 Reviewed by PNSC May 7, 1981

Approved by DH Haase Plant Mgr-Nuc JUNE 9 1981

Approved by JRBenson Vice President
Power Resources June 24 1981

2.2 List of Effective Pages:

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| | | | | 7 | 3/13/81 |

3.0 Scope:

3.1 Purpose:

This procedure provides instructions to control and extinguish fires, to minimize equipment damage from fires or explosions and to prevent personnel injuries.

3.2 Discussion:

3.2.1 The Fire Team is composed of five individuals who are qualified in accordance with Administrative Procedure 15500, Fire Protection Program. The fire team members are personnel from the Operations, Health Physics, and Nuclear Chemistry Departments.

3.2.2 Those personnel initiating and conducting fire drills shall: Notify the Control Room by calling 260 on the PAX phone, announce "This is a drill. This is a drill", give location and classification of simulated fire/explosion, report any simulated injuries and the extent of damage to plant components.

3.2.3 The emergency classification system (see Emergency Procedure 20103, Classification of Emergencies) includes certain fires and explosions. Hence, each fire or explosion shall be evaluated by the Nuclear Plant Supervisor/Emergency Coordinator to determine if it constitutes an unusual event, an alert, or a site area emergency.

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3.3 Authority:

Technical Specification 6.8.1

Facility Operating Licenses DPR-31, Section III, G, and DPR-41,
Section III F.

Letter from A. Schwencer of NRC to R. E. Uhrig dated 3/21/79 (NRC Safety
Evaluation Report for Fire Protection)

10 CFR 50, Appendix R

10 CFR 50.48

Turkey Point Plant Emergency Plans

3.4 Definitions:

The terms that must be familiar to the user in order to fully implement
this procedure are as follows:

3.4.1 Class "A" Fires

Class "A" fires are ordinary combustible fires in such materials as
wood, paper, cloth, or rubber.

3.4.2 Class "B" Fires

Class "B" fires are fires in flammable liquids, gases, and greases.

3.4.3 Class "C" Fires

Class "C" fires are fires which involve "energized" electrical
equipment. (Where electrical equipment is de-energized,
extinguishers for Class "A" or "B" fires may be used).

3.4.4 Class "D" Fires

Class "D" fires are fires in combustible metals such as magnesium,
titanium, zirconium, sodium and potassium.

4.0 Precautions:

4.1 Water in the vicinity of high voltage electrical equipment may constitute
a life hazard to personnel due to the electrical conductivity of water.
Water hoses should be operated with a fog pattern only and at a distance
of 10 feet or more from any energized electrical equipment.

4.2 Portable multipurpose dry chemical extinguishers may be used on the
following class fires:

1. Class "A"
2. Class "B"
3. Class "C"

4.3 Portable carbon dioxide fire extinguishers may be used on the following
class fires:

1. Class "B"
2. Class "C"

4.4 AFFF foam shall be used only on Class "B" fires, where energized electrical equipment is not present.

4.5 The installed Halon 1301 gas system in Document Control is safe as installed. However, the discharge of Halon 1301 may create hazards to personnel such as dizziness, impaired coordination, reduced visibility and exposure to toxic decomposition products. For this reason personnel should leave the area immediately. Self-contained breathing apparatus is required to re-enter the area until the building is ventilated.

5.0 Responsibilities:

5.1 It shall be the responsibility of the Fire Team Leader (normally the Nuclear Watch Engineer) to:

5.1.1 At the beginning of the shift verify the on-site availability of four qualified Fire Team Members in addition to himself. Normally, the four members will be the Nuclear Operator, the Nuclear Turbine Operator, a Radiation Protection Man, and a Lab Technician.

5.1.2 Direct all phases of the fire fighting activities.

5.1.3 Communicate the status of the fire and fire fighting activity to the Emergency Coordinator.

5.1.4 Coordinate the activities of any outside fire fighting organization called in to assist with the emergency.

5.2 It shall be the responsibility of each Fire Team member to be thoroughly familiar with the contents of this procedure and the location of fire fighting equipment in the plant.

5.3 The Plant Manager-Nuclear shall designate in writing an individual(s) to verify through regular inspections that all fire fighting equipment and supplies are in good condition and operable.

5.4 For a fire, it shall be the responsibility of the Nuclear Plant Supervisor or designee to complete the attached fire drill evaluation sheet.

5.5 For a fire drill, the person conducting the drill (normally from the Training Department) is responsible for completing the fire drill evaluation sheet.

5.6 The Nuclear Plant Supervisor/Emergency Coordinator is responsible for classifying fires and explosions as unusual events, alerts, or site area emergencies in accordance with Emergency Procedure 20103, Classification of Emergencies.

6.0 References:

- 6.1 Turkey Point Plant Emergency Plans
- 6.2 Final Safety Analysis Report (FSAR)
- 6.3 10 CFR 50, Appendix R
- 6.4 10 CFR 50.48

7.0 Records:

- 7.1 Log entries in Nuclear Plant Supervisor's Log Book
- 7.2 Completed fire/drill evaluation sheets constitute Quality Assurance Records and, therefore, shall be retained in accordance with Administrative Procedure 0190.14, Document Control and Quality Assurance Records.

8.0 Instructions:

- 8.1 When an individual discovers a fire which can be safely extinguished using fire fighting equipment at hand, he shall do so and then promptly notify the Nuclear Plant Supervisor for the appropriate control room.
- 8.2 When an individual discovers a fire or explosion resulting in a fire which cannot be extinguished using fire fighting equipment at hand, he shall notify the Nuclear Plant Supervisor for the appropriate control room over the PA system or by dialing 260 on any PAX telephone. The following information should be given:
 - 8.2.1 Location of the fire or explosion.
 - 8.2.2 Type of fire or explosion, if known.
 - 8.2.3 Whether or not there are any injured personnel.
 - 8.2.4 Extent of damage to plant components.

NOTE: Speed in notification is much more important than the completeness of the initial report.

- 8.3 The Nuclear Plant Supervisor for the control room operator contacted shall instruct the individual to take any immediate action he is qualified to perform to extinguish the fire.

[NOTE: In the case of the control room receiving the notification, the individual receiving the call shall notify the Nuclear Plant Supervisor].

- 8.4 The Nuclear Plant Supervisor for his designee shall cross-connect the PA system, sound the fire alarm, wait for the fire alarm to stop, then immediately announce the fire/explosion in the following manner:

For Fires: "This is not a drill. This is not a drill," and give the location and classification of the fire/explosion. Then announce, "All personnel in the fire area withdraw to a safe location."

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For Fire Drills: "This is a drill. This is a drill," and give the location and classification of the simulated fire/explosion. Then announce, "All personnel in the fire area withdraw to a safe location."

8.4.1 When word of the Fire/Explosion is passed over the page:

1. The Fire Team Leader shall respond immediately to the fire before dressing out. He will take a radio with him, communicate with the Emergency Coordinator, and take steps to limit the spread of the fire.
2. The Nuclear Turbine Operator and Health Physics fire team members will report to the fire locker, dress out as fast as possible, carry their self-contained breathing apparatus and an extra turnout coat, helmet, pair of gloves and boots (to be used by the Fire Team Leader) to the fire.

8.4.2 The Nuclear Operator and Lab Technician fire team members will report to the fire house, dress out as fast as possible, carry their self-contained breathing apparatus and an extra one (for use by the Fire Team Leader) to the fire location.

NOTE: A list of the locations of fire protection equipment is included in Maintenance Procedure 15537.2, Periodic Surveillance of Fire Protection Equipment.

8.4.3 Upon arrival of the Fire Team Members, the Fire Team Leader shall give instructions to them for fighting the fire. While the Fire Team Members begin extinguishing the fire, the Fire Team Leader can put on his protective equipment and join them.

8.4.4 In the event of a fire in a radiation area, the protection of life and property may require more immediate attention than the radiological hazard itself. Only when it has been determined or suspected that the fire is in an unusually high radiation area or in a high airborne activity environment should the radiological effort be permitted to interfere with extinguishing the fire.

8.4.5 If a fire is classified as an ALERT or SITE AREA EMERGENCY pursuant to Emergency Procedure 20103, Classification of Emergencies, notify the Nuclear Regulatory Commission within one hour in accordance with Administrative Procedure 0103.12, Notification of Significant Events to NRC.

8.4.6 Requesting Outside Fire Fighting Assistance

1. If the fire, or explosion resulting in a fire, is considered by the Nuclear Plant Supervisor/Emergency Coordinator based on reports from the fire team leader as probably beyond the capability of the fire teams to contain, the Dade County Fire Department shall be called. Whereupon, at the option of the Nuclear Plant Supervisor/Emergency Coordinator, if the fire cannot be controlled by the additional forces, then the Homestead Air Force Base Fire Department shall be called.

2. If the fire, or explosion resulting in a fire, is too large to be controlled by available plant forces and is in the Radiation Controlled Area, the Homestead Air Force Base Fire Department shall also be called.
3. The Main Entrance Station Guard shall be notified of the location of the fire and the expected arrival of the off-site fire fighting equipment.
4. Working communications shall be established between the Emergency Coordinator, the person in charge of the off-site fire fighting organization, the Radiation Team Leader if the fire is in the Radiation Controlled Area, and the Fire Team Leader.

NOTE: See Emergency Procedure 20104, Emergency Roster, for specific information regarding means of communication and telephone numbers.

8.5 Fire/Drill Evaluation:

- 8.5.1 The Nuclear Plant Supervisor/Emergency Coordinator or the person conducting the fire drill shall complete and forward the Fire/Drill Evaluation Sheet to the Fire Protection/Safety Coordinator and a copy to the Fire Team Training Supervisor and a copy to Document Control for retention.

APPENDIX A
FIRE/DRILL EVALUATION SHEET

Date: _____

1. Fire/Fire Drill (Including location and class of fire) _____

2. Time for fire alarm to sound after fire/drill is initiated: _____
3. Time until fire/drill and location are announced on page: _____
4. Time for first man to arrive at scene: _____
5. Time when all Brigade Members are at scene: _____
6. Evaluation of team leader performance: _____

7. Evaluation of team member performance: _____

8. Training given at fire/drill scene: _____

9. Individuals on fire team at scene:
 1. _____ 5. _____ 9. _____
 2. _____ 6. _____ 10. _____
 3. _____ 7. _____ 11. _____
 4. _____ 8. _____ 12. _____
10. Critique on fire/drill: _____

11. Recommendations for program, procedure, drill changes: _____
Drill given by: _____

(Use Reverse Side if Necessary)

