

FLORIDA POWER AND LIGHT COMPANY  
TURKEY POINT UNITS 3 AND 4  
EMERGENCY PROCEDURE 20107  
DECEMBER 9, 1986

1.0 Title:

FIRE/EXPLOSION EMERGENCIES

2.0 Approval and List of Effective Pages:

2.1 Approval:

Change dated 12/9/86 Reviewed by Plant Nuclear Safety Committee: 86-302

Approved by [Signature] Plant Manager - N 1-6 1987

Approved by [Signature] Group Vice President  
Nuclear Energy 1-26 1987

2.2 List of Effective Pages:

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
1	12/9/86	3	12/9/86	5	12/9/86
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3.0 Scope:

3.1 Purpose:

This procedure provides guidance 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 Brigade is composed of five individuals who are qualified in accordance with AP-15500, Fire Protection Program. The fire brigade members are personnel from the Operations, Health Physics, and Nuclear Chemistry Departments. A guard from the Security Force responds with the brigade to control the effected area and facilitate any offsite emergency vehicles.

NOTE: The use of the term fire team and fire brigade are used synonymously.

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3.2.2 The emergency classification system (see EP-20101, Duties of the Emergency Coordinator) includes certain fires and explosions. Hence, each fire or explosion shall be evaluated by the Plant Supervisor - Nuclear/Emergency Coordinator to determine if it constitutes an UNUSUAL EVENT, an ALERT, or a SITE AREA EMERGENCY.

3.3 Authority:

Technical Specification 6.8.1  
Turkey Point Plant Radiological Emergency Plan

4.0 Precautions:

4.1 Combustion products produced in a fire are always toxic and extremely hazardous to life safety. SCBA is required to re-enter the area until the area has been well ventilated.

4.2 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.

5.0 Responsibilities:

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

5.1.1 Direct all phases of the fire fighting activities.

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

5.1.3 Determine if the fire has the potential to affect safety related equipment.

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

5.1.5 Direct the assigned guard, as necessary, to control area, and vehicles and equipment brought on site for fire fighting purposes.

5.1.6 Account for all Fire Brigade members during and following the fire emergency.

5.1.7 Direct the search and rescue of missing personnel believed to be in the area of the fire emergency.



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- 5.1.8 Ensure that any equipment used is promptly returned to its normal storage space, in a serviceable condition, following the fire emergency.
- 5.1.9 Notify the Mechanical Maintenance Department to properly disinfect all face masks in accordance with manufacturers recommendations.
- 5.2 It shall be the responsibility of each Fire Brigade member to be thoroughly familiar with the contents of this procedure and the location of fire fighting equipment in the plant. After a fire each member is responsible to verify that the self-contained breathing apparatus (SCBA) face piece is turned in for disinfection, the regulator is fully operable and that the bottles are in full service condition (cylinder pressure gauge indicates full) prior to being returned to their normal storage place.
- 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 It shall be the responsibility of the Brigade leader to complete the attached Fire Incident Report (Appendix A).
- 5.5 The Plant Supervisor - Nuclear/Emergency Coordinator is responsible for classifying fires and explosions as unusual events, alerts, or site area emergencies in accordance with EP-20101, Duties of the Emergency Coordinator.
- 6.0 References:
- 6.1 Turkey Point Plant Emergency Plan
- 6.2 Final Safety Analysis Report (FSAR)
- 6.3 AP-15500, Fire Protection Program
- 7.0 Records:
- 7.1 Log entries in Plant Supervisor - Nuclear's Log Book
- 7.2 Completed copies of the below listed section(s), enclosure(s) and/or attachment(s) constitute Quality Assurance Records and shall be transmitted to Document Control and be retained for the lifetime of the Plant, in accordance with Quality Assurance records requirements:
- 7.2.1 Appendix A



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8.0 Instructions:

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

8.1.1 The Fire Brigade Leader shall don protective clothing and respond to the fire. He will take a 2-way radio with him, communicate with the Plant Supervisor - Nuclear/Emergency Coordinator, and take steps to extinguish or limit the spread of the fire.

CAUTION: The Nuclear Watch Engineer may leave the Control Room prior to the return of the Plant Supervisor - Nuclear only if:

(1) the fire has the potential to directly affect safety related equipment,

AND

(2) an Emergency Coordinator, as qualified in EP-20101, is designated and has capable control of Emergency Plant requirements, and actions.

8.1.2 The remaining four Fire Brigade members shall respond to the nearest fire equipment locker, don their protective clothing including SCBA (except for the mask, which will be don before entering the fire area). The Brigade will then respond to the fire scene in a safe and expeditious manner.

NOTE: A list of the locations of fire protection equipment is included in MP-15537.2 and MP-15537.5 Periodic Surveillances of Fire Protection Equipment.

8.1.3 The responding Security Guard will report to the location of the emergency, provide area control and facilitate emergency vehicle access as directed by the Fire Brigade Leader.

8.2 Upon arrival of the Fire Brigade Members, the Fire Brigade Leader shall give instructions to them for fighting the fire.





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8.3 Requesting Outside Fire Fighting Assistance

1. If the fire, or explosion resulting in a fire, is considered by the Fire Brigade Leader as beyond the capability of the Fire Brigade to contain, he shall request the Plant Supervisor-Nuclear to contact the Metro-Dade Fire Department. 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, Metro-Dade and/or the Homestead Air Force Base Fire Department shall also be called.
3. When off-site assistance arrives, 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 Brigade Leader.

8.4 Fire Incident Report: (Appendix A)

- 8.4.1 The Brigade Leader shall within 24 hours complete and forward Appendix A to the Fire Protection Coordinator and a copy to Document Control for retention.



APPENDIX A

FIRE INCIDENT REPORT

1. 

MO.	DAY	YEAR	ALARM TIME	TIME ON SCENE	TIME FROM ALARM TO AGENT APPLICATION	TIME EXTINGUISHED
2. Type of Fire (Class): \_\_\_\_\_
3. Location of Fire: \_\_\_\_\_
4. Property or Equipment Damaged: \_\_\_\_\_  
\_\_\_\_\_
5. Size and Nature of Fire: \_\_\_\_\_
6. Most Probable Cause of Fire, if known: \_\_\_\_\_
7. Method of Alarm to Control Room: \_\_\_\_\_  
Name of Person and Dept. if Person called: \_\_\_\_\_
8. Name of Individual/Individuals Extinguishing Fire: \_\_\_\_\_  
\_\_\_\_\_
9. Name of Fire Brigade Members Reporting to Fire:  
Leader \_\_\_\_\_ Chem \_\_\_\_\_  
N.O. \_\_\_\_\_ R.P.M. \_\_\_\_\_  
N.T.O. \_\_\_\_\_ Security \_\_\_\_\_
10. Method of Extinguishment: \_\_\_\_\_
11. Any injuries to Brigade or Non - Brigade Members: \_\_\_\_\_  
\_\_\_\_\_
12. Remarks: Any additional information necessary to insure that persons not at the fire will understand the circumstances of the fire.  
\_\_\_\_\_  
\_\_\_\_\_
13. Follow-Up Corrective Action: \_\_\_\_\_ Date \_\_\_\_\_
14. Member making Report: \_\_\_\_\_ Date \_\_\_\_\_



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

1. The Fire Team Leader shall dress out and respond to the fire. He will take a 2-way radio with him, communicate with the Plant Supervisor - Nuclear/Emergency Coordinator, and take steps to extinguish or limit the spread of the fire.

CAUTION: The Nuclear Watch Engineer may leave the Control Room prior to the return of the Plant Supervisor - Nuclear only if:

- (1) the fire has the potential to directly affect safety related equipment,

AND

- (2) an Emergency Coordinator, as qualified in EP-20101, is designated and has capable control of Emergency Plan requirements; and actions.

2. The Nuclear Turbine Operator and Health Physics Fire Brigade members will report to fire locker No. 1 and dress out as fast as possible. They will put on their SCBA's except the mask, which will be put on before entering the fire area. They will carry an extra SCBA (for use by the leader) to the fire scene.
3. The Nuclear Operator and Lab Technician Fire Brigade members will report to fire locker No. 2, and dress out as fast as possible. They will put on their SCBA's except the mask which will be put on before entering the fire area.

NOTE: A list of the locations of fire protection equipment is included in MP-15537.2 and MP-15537.5 Periodic Surveillances of Fire Protection Equipment.

4. The assigned Security Guard will report to the location of the emergency, provide area control and facilitate emergency vehicle access as directed by the Fire Team Leader.

8.4.2 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 SCBA and join them.

8.4.3 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.



8.4.4 If a fire is classified as an UNUSUAL EVENT, ALERT, or SITE AREA EMERGENCY the Plant Supervisor - Nuclear shall activate the Emergency Plans and follow the appropriate checklist in EP-20101, Duties of Emergency Coordinator.

8.4.5 Requesting Outside Fire Fighting Assistance

1. If the fire, or explosion resulting in a fire, is considered by the Plant Supervisor - Nuclear/Emergency Coordinator based on reports from the fire team leader as probably beyond the capability of the fire team to contain, the Dade County Fire Department shall be called. Whereupon, at the option of the Plant Supervisor - Nuclear/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. If off-site assistance is requested, the Main Entrance Station Guard shall be notified by the NPS of the location of the fire and the expected arrival of the off-site fire fighting equipment.
4. When off-site assistance arrives, 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 EP-20101, Duties of Emergency Coordinator, for specific information regarding means of communication and telephone numbers.

8.4.6 Termination of Drill

1. When the fire drill is terminated, the Fire Team Leader shall notify the PS-N who will have the following statement announced over the cross-connected PA system twice: "Attention all personnel, the fire drill is completed, please regard all further alarms."

8.5 Drill Evaluation: (Appendix A)

- 8.5.1 The person conducting the drill shall complete and forward Appendix A to the Fire Protection Supervisor, a copy to the Fire Protection Coordinator and a copy to Document Control for retention.

8.6 Fire Report: (Appendix B)

- 8.6.1 The brigade leader shall complete and forward Appendix B to the Fire Protection Supervisor, a copy to the Fire Protection Coordinator and a copy to Document Control for retention.





Date: \_\_\_\_\_

- (Use Reverse Side if Necessary)



APPENDIX B

FIRE REPORT

Date: \_\_\_\_\_

Time: \_\_\_\_\_

1. Type of Fire (Class): \_\_\_\_\_

2. Location of Fire: \_\_\_\_\_

3. Property or Equipment Damaged: \_\_\_\_\_

4. Description of Loss: \_\_\_\_\_

5. Cause of Fire, if known: \_\_\_\_\_

6. Extent of Loss or Damage: \_\_\_\_\_

7. What Method of Extinguishment Used: \_\_\_\_\_

8. Any Injuries (Brigade Members): \_\_\_\_\_

9. Any Injuries (Non-Brigade Members): \_\_\_\_\_

10. Fire Brigade Members Reporting to Fire:

\_\_\_\_\_ Leader \_\_\_\_\_ Chem

\_\_\_\_\_ N.O. \_\_\_\_\_ R.P.M.

\_\_\_\_\_ N.T.O. \_\_\_\_\_ Security

11. Remarks: Any additional information necessary to ensure that persons not at the fire will understand the circumstances of the fire.

\_\_\_\_\_  
\_\_\_\_\_

12. Leader in Charge \_\_\_\_\_ Date \_\_\_\_\_

Member making Report (if different from above): \_\_\_\_\_ Date \_\_\_\_\_

(Use Reverse Side, if necessary)

