

# CATEGORY 1

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9712230321 DOC. DATE: 97/12/17 NOTARIZED: NO DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 AUTH. NAME AUTHOR AFFILIATION  
 HOVEY, R.J. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Document Control Branch (Document Control Desk)

SUBJECT: Provides response to request for addl info re request for exemption from requirements for raceway fire barriers in outdoor fire areas excluding turbine bldg at Units 3 & 4.

DISTRIBUTION CODE: A006D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: OR/Licensing Submittal: Fire Protection - App R - GL-88-12

### NOTES:

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	CROTEAU, R	1 1		
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	NUDACS=ABSTRACT	1 1	OGC/HDS3	1 0
EXTERNAL:	NOAC	1 1	NRC PDR	1 1

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L-97-306  
10 CFR §50.12  
10 CFR §50.48

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D. C. 20555

Subject: Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
Response to Request for Additional Information  
- Request for Exemption -  
Fire Rating of Raceway Fire Barriers in the  
Outdoor Fire Area Excluding the Turbine Building

By letter L-96-318, dated December 12, 1996, Florida Power & Light (FPL) submitted a request for exemption from the requirements for raceway fire barriers in outdoor fire areas excluding the Turbine Building at Turkey Point Units 3 and 4. By letter L-97-182, dated July 31, 1997, FPL provided additional information as requested by NRC letter dated June 16, 1997.

On December 1, 1997, during a telephone conversation between the NRC staff and FPL representatives, the NRC staff informed FPL that additional information was needed in order for the staff to complete its review. The NRC staff requested that FPL identify the safe shutdown functions of raceways being protected in Fire Zones 79, 81, 84, 86, 88, 89 and 131.

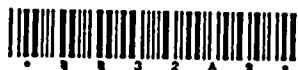
In accordance with the NRC request, FPL provides the attached response. Should there be any questions, please contact us.

Very truly yours,

R. J. Hovey  
Vice President  
Turkey Point Plant

OIH

Attachment



cc: L. A. Reyes, Regional Administrator, Region II, USNRC  
T. P. Johnson, Senior Resident Inspector, USNRC, Turkey  
Point Plant

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PDR ADDCK 05000250  
F PDR

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Response to NRC Request for Additional Information on  
- Request for Exemption -  
Fire Rating of Raceway Fire Barriers in the  
Outdoor Fire Area Excluding the Turbine Building

Turkey Point Units 3 and 4 are required to either meet the applicable portions of Title 10 Code of Federal Regulations Part 50 (10 CFR 50) Appendix R or meet the requirements of approved exemptions to 10 CFR 50 Appendix R. By letter L-96-318, dated December 12, 1996, Florida Power & Light (FPL) submitted a request for exemption from the requirements of 10 CFR 50, Appendix R, Section III.G.2.a, for electrical raceway fire barrier systems used at Turkey Point Units 3 and 4 in outdoor fire zones excluding the turbine building area.

On December 1, 1997, during a telephone conversation between the NRC staff and FPL representatives, the NRC staff requested that FPL identify the safe shutdown functions of raceways requiring fire barrier protection in the following Fire Zones:

79 (partial)	Area West of Unit 4 Containment
81	Unit 4 Main & Startup Transformer, Unit 3 Turbine Lube Oil Reservoir
84 (partial)	Units 3 & 4 Auxiliary Feedwater Pump Area
86	Unit 3 Main and Startup Transformers
88 (partial)	Unit 3 Switchgear/Emergency Diesel Generator Vestibule
89 (partial)	Unit 3 Condensate Storage Tank Area
131	Unit 3 Emergency Diesel Generator Radiator Room

The table provided on the following pages lists, by fire zone, the safe shutdown functions for circuits which require fire barrier protection.



Turkey Point Units 3 and 4  
Protected Safe Shutdown Circuits for Selected Outdoor Fire Zones

FIRE ZONE	SAFE SHUTDOWN FUNCTION
79	Feedwater supply
79	Mitigate Component Cooling Water Pump spurious loading
79	4KV Bus clearing and emergency/backup power supply
79	Normal Containment Cooling
79	Mitigate Condensate Pump spurious loading
79	Mitigate Heater Drain Pump spurious loading
79	Mitigate Intake Cooling Water Pump spurious loading
79	Steam Generator level indication
79	Reactor Coolant System pressure indication
79	Hot Leg temperature indication
79	Cold Leg temperature indication
79	Main Steam Isolation
79	Pressurizer relief isolation
79	480V power supply
79	DC Inverter Room air conditioning
81	4KV Emergency/backup power supply
84	Feedwater supply
84	Mitigate Component Cooling Water Pump spurious loading
84	Component Cooling Water supply to Reactor Coolant Pump thermal barrier
84	Reactor Coolant System volume and chemistry control
84	Pressurizer Auxiliary Spray control
84	4KV Bus clearing and emergency/backup power supply
84	Normal Containment Cooling
84	Containment instrument air supply
84	Mitigate Intake Cooling Water Pump spurious loading
84	Pressurizer level indication
84	Steam Generator level indication
84	Steam Generator pressure indication
84	Reactor Coolant System pressure indication
84	Cold Leg temperature indication
84	Hot Leg temperature indication
84	Main steam isolation

84	Pressurizer Heating control
84	Pressurizer power operated relief control
84	480V power supply
84	120VAC power supply
84	125VDC power supply
86	Mitigate Component Cooling Water Pump spurious loading
86	4KV Bus clearing and emergency/backup power supply
86	Normal Containment Cooling
86	Mitigate Intake Cooling Water Pump spurious loading
86	480V power supply
86	125VDC power supply
88	Feedwater supply
88	Mitigate Component Cooling Water Pump spurious loading
88	4KV Bus clearing and emergency/backup power supply
88	Normal Containment Cooling
88	Mitigate Intake Cooling Water Pump spurious loading
88	480V power supply
89	Auxiliary Feedwater flow control valve control
89	Mitigate Component Cooling Water Pump spurious loading
89	Bus clearing and emergency/backup power supply
89	Normal Containment Cooling
89	Mitigate Intake Cooling Water Pump spurious loading
89	480V power supply
131	No protected circuits in this fire zone

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L-97-306  
10 CFR §50.12  
10 CFR §50.48

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Trial	Control	MCI	AD
1	85	75	65
2	88	78	68
3	90	80	70
4	92	82	72
5	95	85	75

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89 (partial)	Unit 3 Condensate Storage Tank Area
131	Unit 3 Emergency Diesel Generator Radiator Room

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Protected Safe Shutdown Circuits for Selected Outdoor Fire Zones

FIRE ZONE	SAFE SHUTDOWN FUNCTION
79	Feedwater supply
79	Mitigate Component Cooling Water Pump spurious loading
79	4KV Bus clearing and emergency/backup power supply
79	Normal Containment Cooling
79	Mitigate Condensate Pump spurious loading
79	Mitigate Heater Drain Pump spurious loading
79	Mitigate Intake Cooling Water Pump spurious loading
79	Steam Generator level indication
79	Reactor Coolant System pressure indication
79	Hot Leg temperature indication
79	Cold Leg temperature indication
79	Main Steam Isolation
79	Pressurizer relief isolation
79	480V power supply
79	DC Inverter Room air conditioning
81	4KV Emergency/backup power supply
84	Feedwater supply
84	Mitigate Component Cooling Water Pump spurious loading
84	Component Cooling Water supply to Reactor Coolant Pump thermal barrier
84	Reactor Coolant System volume and chemistry control
84	Pressurizer Auxiliary Spray control
84	4KV Bus clearing and emergency/backup power supply
84	Normal Containment Cooling
84	Containment instrument air supply
84	Mitigate Intake Cooling Water Pump spurious loading
84	Pressurizer level indication
84	Steam Generator level indication
84	Steam Generator pressure indication
84	Reactor Coolant System pressure indication
84	Cold Leg temperature indication
84	Hot Leg temperature indication
84	Main steam isolation

84	Pressurizer Heating control
84	Pressurizer power operated relief control
84	480V power supply
84	120VAC power supply
84	125VDC power supply
86	Mitigate Component Cooling Water Pump spurious loading
86	4KV Bus clearing and emergency/backup power supply
86	Normal Containment Cooling
86	Mitigate Intake Cooling Water Pump spurious loading
86	480V power supply
86	125VDC power supply
88	Feedwater supply
88	Mitigate Component Cooling Water Pump spurious loading
88	4KV Bus clearing and emergency/backup power supply
88	Normal Containment Cooling
88	Mitigate Intake Cooling Water Pump spurious loading
88	480V power supply
89	Auxiliary Feedwater flow control valve control
89	Mitigate Component Cooling Water Pump spurious loading
89	Bus clearing and emergency/backup power supply
89	Normal Containment Cooling
89	Mitigate Intake Cooling Water Pump spurious loading
89	480V power supply
131	No protected circuits in this fire zone