

066

SEP 20 1984

Docket No. 50-335

Mr. J. W. Williams  
Vice President  
Nuclear Energy Department  
Florida Power & Light Company  
Juno Beach, Florida 33408

DISTRIBUTION:

Docket File	OELD	DBrinkman
NRC PDR	SECY	ACRS (10)
Local PDR	LHarmon	RDiggs
ORB#3 Rdg	EJordan	OPA, CMiles
DEisenhut	JNGrace	
PMKreutzer	TBarnhart ±4	
DSells	WJones	

Dear Mr. Williams:

Amendment No. 68 to Facility Operating License No. DPR-67 for St. Lucie Unit 1, which was transmitted to you on September 6, 1984 was inadvertently and incorrectly dated August 27, 1984. The enclosed copy of the amendment package has been corrected to reflect the correct issuance date of September 5, 1984.

Please discard the documents related to Amendment No. 68 bearing the incorrect date and replace them with the enclosed corrected copy.

The copies of the amendment which were mailed to the courtesy copy list and transmitted to the Public Document Room and local PDR were corrected prior to dispatch.

Please accept our apologies for any inconvenience this error may have caused you.

Sincerely,

~~Original signed by:~~

Donald E. Sells, Project Manager  
Operating Reactors Branch #3  
Division of Licensing

Enclosure:  
Corrected copy  
of Amendment No. 68

cc: See next page

8410010015 840920  
PDR ADOCK 05000335  
PDR

ORB#3:DL  
PKreutzer  
9/18/84

ORB#3:DL  
DEsells:dd  
9/19/84

ORB#3:DL  
JRMiller  
9/19/84



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

September 5, 1984

Docket No. 50-335

Mr. J. W. Williams, Jr.  
Vice President  
Nuclear Energy Department  
Florida Power & Light Company  
P. O. Box 14000  
Juno Beach, Florida 33408

Dear Mr. Williams:

The Commission has issued the enclosed Amendment No. 68 to Facility Operating License No. DPR-67 for the St. Lucie Plant, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated May 21, 1984.

The amendment changes the Technical Specifications to add technical specifications dealing with the reactor coolant system vents.

A copy of the related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next monthly Federal Register notice.

Sincerely,

A handwritten signature in cursive script that reads "Donald E. Sells".

Donald E. Sells, Project Manager  
Operating Reactors Branch #3  
Division of Licensing

Enclosures:

1. Amendment No. 68 to DPR-67
2. Safety Evaluation

cc w/enclosures  
See next page

Florida Power & Light Company

CC:

Harold F. Reis, Esquire  
Newman & Holtzinger  
1025 Connecticut Avenue, NW  
Washington, DC 20036

Norman A. Coll, Esquire  
McCarthy, Steel, Hector and Davis  
14th Floor, First National Bank Building  
Miami, Florida 33131

Administrator  
Department of Environmental Regulation  
Power Plant Siting Section  
State of Florida  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Mr. Weldon B. Lewis  
County Administrator  
St. Lucie County  
2300 Virginia Avenue, Room 104  
Fort Pierce, Florida 33450

U.S. Environmental Protection Agency  
Region IV Office  
ATTN: Regional Radiation Representative  
345 Courtland Street, NE  
Atlanta, Georgia 30308

Mr. Charles B. Brinkman  
Manager - Washington Nuclear Operations  
C-E Power Systems  
Combustion Engineering, Inc.  
7910 Woodmont Avenue  
Bethesda, Maryland 20014

Regional Administrator  
Nuclear Regulatory Commission  
Region II  
Office of Executive Director for Operations  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

Mr. Jack Schreve  
Office of the Public Counsel  
Room 4, Holland Building  
Tallahassee, Florida 32304

Resident Inspector  
c/o U.S. NRC  
Senior Resident Inspector  
7585 S. Hwy A1A  
Jensen Beach, Florida 33457

State Planning & Development  
Clearinghouse  
Office of Planning & Budget  
Executive Office of the Governor  
The Capitol Building  
Tallahassee, Florida 32301



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

FLORIDA POWER & LIGHT COMPANY

DOCKET NO. 50-335

ST. LUCIE PLANT UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 68  
License No. DPR-67

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Florida Power & Light Company, (the licensee) dated May 21, 1984 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

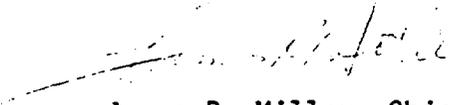
2. Accordingly, Facility Operating License No. DPR-67 is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and by amending paragraph 2.C.(2) to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 68, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: September 5, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 68

FACILITY OPERATING LICENSE NO. DPR-67

DOCKET NO. 50-335

Remove and replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are provided to maintain document completeness.

Remove

V  
X  
B 3/4 4-15

Insert

V  
X  
3/4 4-61  
B 3/4 4-15

INDEX

LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

<u>SECTION</u>		<u>PAGE</u>
<u>3/4.6 CONTAINMENT SYSTEMS</u>		
3/4.6.1	CONTAINMENT VESSEL.....	3/4 6-1
	Containment Vessel Integrity.....	3/4 6-1
	Containment Leakage.....	3/4 6-2
	Containment Air Locks.....	3/4 6-10
	Internal Pressure.....	3/4 6-12
	Air Temperature.....	3/4 6-13
	Containment Vessel Structural Integrity.....	3/4 6-14
3/4.6.2	DEPRESSURIZATION AND COOLING SYSTEMS.....	3/4 6-15
	Containment Spray System.....	3/4 6-15
	Spray Additive System.....	3/4 6-16a
	Containment Cooling System.....	3/4 6-17
3/4.6.3	CONTAINMENT ISOLATION VALVES.....	3/4 6-18
3/4.6.4	COMBUSTIBLE GAS CONTROL.....	3/4 6-23
	Hydrogen Analyzers.....	3/4 6-23
	Electric Hydrogen Recombiners - <u>W</u> .....	3/4 6-24
3/4.6.5	VACUUM RELIEF VALVES.....	3/4 6-26
3/4.6.6	SECONDARY CONTAINMENT.....	3/4 6-27
	Shield Building Ventilation System.....	3/4 6-27
	Shield Building Integrity.....	3/4 6-30
	Shield Building Structural Integrity.....	3/4 6-31
<u>3/4.7 PLANT SYSTEMS</u>		
3/4.7.1	TURBINE CYCLE .....	3/4 7-1
	Safety Valves.....	3/4 7-1
	Auxiliary Feedwater System.....	3/4 7-4
	Condensate Storage Tank.....	3/4 7-6
	Activity.....	3/4 7-7
	Main Steam Line Isolation Valves.....	3/4 7-9
	Secondary Water Chemistry.....	3/4 7-10

INDEX

LIMITING CONDITION FOR OPERATION AND SURVEILLANCE REQUIREMENTS

<u>SECTION</u>	<u>PAGE</u>
3/4.4.4 PRESSURIZER.....	3/4 4-4
3/4.4.5 STEAM GENERATORS.....	3/4 4-5
3/4.4.6 REACTOR COOLANT SYSTEM LEAKAGE.....	3/4 4-12
Leakage Detection Systems.....	3/4 4-12
Reactor Coolant System Leakage.....	3/4 4-14
3/4.4.7 CHEMISTRY.....	3/4 4-15
3/4.4.8 SPECIFIC ACTIVITY.....	3/4 4-17
3/4.4.9 PRESSURE/TEMPERATURE LIMITS.....	3/4 4-21
Reactor Coolant System.....	3/4 4-21
Pressurizer.....	3/4 4-25
3/4.4.10 STRUCTURAL INTEGRITY.....	3/4 4-26
Safety Class 1 Components.....	3/4 4-26
Safety Class 2 Components.....	3/4 4-37
Safety Class 3 Components.....	3/4 4-53
3/4.4.11 CORE BARREL MOVEMENT.....	3/4 4-56
3/4.4.12 PORV BLOCK VALVES.....	3/4 4-58
3/4.4.13 POWER OPERATED RELIEF VALVES.....	3/4 4-59
3/4.4.14 REACTOR COOLANT PUMP - STARTING.....	3/4 4-60
3/4.4.15 REACTOR COOLANT SYSTEM VENTS.....	3/4 4-61
<u>3/4.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)</u>	
3/4.5.1 SAFETY INJECTION TANKS.....	3/4 5-1
3/4.5.2 ECCS SUBSYSTEMS - $T_{avg} \geq 325^{\circ}\text{F}$ .....	3/4 5-3
3/4.5.3 ECCS SUBSYSTEMS - $T_{avg} < 325^{\circ}\text{F}$ .....	3/4 5-7
3/4.5.4 REFUELING WATER TANK.....	3/4 5-8

INDEX

BASES

<u>SECTION</u>	<u>PAGE</u>
<u>3/4.4 REACTOR COOLANT SYSTEM</u>	
3/4.4.1 REACTOR COOLANT LOOPS AND COOLANT CIRCULATION.....	B 3/4 4-1
3/4.4.2 and 3/4.4.3 SAFETY VALVES.....	B 3/4 4-1
3/4.4.4 PRESSURIZER.....	B 3/4 4-2
3/4.4.5 STEAM GENERATORS.....	B 3/4 4-2
3/4.4.6 REACTOR COOLANT SYSTEM LEAKAGE.....	B 3/4 4-4
3/4.4.7 CHEMISTRY.....	B 3/4 4-4
3/4.4.8 SPECIFIC ACTIVITY.....	B 3/4 4-5
3/4.4.9 PRESSURE/TEMPERATURE LIMITS.....	B 3/4 4-6
3/4.4.10 STRUCTURAL INTEGRITY.....	B 3/4 4-12
3/4.4.11 CORE BARREL MOVEMENT.....	B 3/4 4-13
3/4.4.12 PORV BLOCK VALVES.....	B 3/4 4-14
3/4.4.13 POWER OPERATED RELIEF VALVES and 3/4.4.14 REACTOR COOLANT PUMP - STARTING.....	B 3/4 4-15
3/4.4.15 REACTOR COOLANT SYSTEM VENTS.....	B 3/4 4-15
<u>3/4.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)</u>	
3/4.5.1 SAFETY INJECTION TANKS.....	B 3/4 5-1
3/4.5.2 and 3/4.5.3 ECCS SUBSYSTEMS.....	B 3/4 5-1
3/4.5.4 REFUELING WATER STORAGE TANK (RWST).....	B 3/4 5-2
<u>3/4.6 CONTAINMENT SYSTEMS</u>	
3/4.6.1 CONTAINMENT VESSEL.....	B 3/4 6-1
3/4.6.2 DEPRESSURIZATION AND COOLING SYSTEMS.....	B 3/4 6-2
3/4.6.3 CONTAINMENT ISOLATION VALVES.....	B 3/4 6-3
3/4.6.4 COMBUSTIBLE GAS CONTROL.....	B 3/4 6-3
3/4.6.5 VACUUM RELIEF VALVES.....	B 3/4 6-4
3/4.6.6 SECONDARY CONTAINMENT.....	B 3/4 6-4

INDEX

BASES

<u>SECTION</u>	<u>PAGE</u>
<u>3/4.7 PLANT SYSTEMS</u>	
3/4.7.1 TURBINE CYCLE.....	B 3/4 7-1
3/4.7.2 STEAM GENERATOR PRESSURE/TEMPERATURE LIMITATION.....	B 3/4 7-3
3/4.7.3 COMPONENT COOLING WATER SYSTEM.....	B 3/4 7-4
3/4.7.4 INTAKE COOLING WATER SYSTEM.....	B 3/4 7-4
3/4.7.5 ULTIMATE HEAT SINK.....	B 3/4 7-4
3/4.7.6 FLOOD PROTECTION.....	B 3/4 7-4
3/4.7.7 CONTROL ROOM EMERGENCY VENTILATION SYSTEM.....	B 3/4 7-4
3/4.7.8 ECCS AREA VENTILATION SYSTEM.....	B 3/4 7-5
3/4.7.9 SEALED SOURCE CONTAMINATION.....	B 3/4 7-5
3/4.7.10 SNUBBERS.....	B 3/4 7-5
3/4.7.11 FIRE SUPPRESSION SYSTEMS.....	B 3/4 7-7
3/4.7.12 PENETRATION FIRE BARRIERS.....	B 3/4 7-7
<u>3/4.8 ELECTRICAL POWER SYSTEMS</u> .....	B 3/4 8-1
<u>3/4.9 REFUELING OPERATIONS</u>	
3/4.9.1 BORON CONCENTRATION.....	B 3/4 9-1
3/4.9.2 INSTRUMENTATION.....	B 3/4 9-1
3/4.9.3 DECAY TIME.....	B 3/4 9-1
3/4.9.4 CONTAINMENT PENETRATIONS.....	B 3/4 9-1
3/4.9.5 COMMUNICATIONS.....	B 3/4 9-1
3/4.9.6 MANIPULATOR CRANE OPERABILITY.....	B 3/4 9-1
3/4.9.7 CRANE TRAVEL - SPENT FUEL STORAGE BUILDING.....	B 3/4 9-2
3/4.9.8 SHUTDOWN COOLING AND COOLANT CIRCULATION.....	B 3/4 9-2

## REACTOR COOLANT SYSTEM

### 3/4.4.15 REACTOR COOLANT SYSTEM VENTS

#### LIMITING CONDITION FOR OPERATION

---

3.4.15 At least one Reactor Coolant System vent path consisting of two vent valves and one block valve powered from emergency buses shall be OPERABLE and closed at each of the following locations:

- a. Pressurizer steam space, and
- b. Reactor vessel head.

APPLICABILITY: MODES 1, 2, 3 and 4.

#### ACTION:

- a. With one of the above Reactor Coolant System vent paths inoperable, STARTUP and/or POWER OPERATION may continue provided the inoperable vent path is maintained closed with power removed from the valve actuator of all the vent valves and block valves in the inoperable vent path; restore the inoperable vent path to OPERABLE status within 30 days, or be in HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With both Reactor Coolant System vent paths inoperable, maintain the inoperable vent paths closed with power removed from the valve actuators of all the vent valves and block valves in the inoperable vent paths, and restore at least one of the vent paths to OPERABLE status within 72 hours or be in HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

---

4.4.15 Each Reactor Coolant System vent path shall be demonstrated OPERABLE at least once per 18 months by:

1. Verifying all manual isolation valves in each vent path are locked in the open position.
2. Cycling each vent valve through at least one complete cycle of full travel from the control room.
3. Verifying flow through the Reactor Coolant System vent paths during venting.

## REACTOR COOLANT SYSTEM

### BASES

---

#### 3/4.4.13 POWER OPERATED RELIEF VALVES and 3/4.4.14 REACTOR COOLANT PUMP - STARTING

The low temperature reactor coolant system overpressure mitigating system is provided to prevent RCS overpressurization above the 10 CFR 50, Appendix G, operating limit curves (Figure 3.4-2b or 3.4-2c, as applicable) at RCS temperatures below 275°F. The RCS overpressurization system is based on the use of the pressurizer power operated relief valves (I-V-1402 and I-V-1404) for the design basis mass injection transient, and the formation of a 60% pressurizer bubble by volume for the design basis energy addition transient. For the case when no pressurizer steam bubble is formed, protection against the design basis energy addition transient is derived by limiting the secondary-to-primary temperature differential below 50°F. The operability of the RCS overpressurization protection system will only be required during periods of heatup and cooldown below RCS temperatures below 275°F and periods of cold shutdown when the RCS has pressure boundary integrity.

#### 3/4.4.15 REACTOR COOLANT SYSTEM VENTS

Reactor Coolant System vents are provided to exhaust noncondensable gases and/or steam from the primary system that could inhibit natural circulation core cooling. The OPERABILITY of at least one Reactor Coolant System vent path from the reactor vessel head and the pressurizer steam space ensures the capability exists to perform this function.

The redundancy design of the Reactor Coolant System vent systems serves to minimize the probability of inadvertent or irreversible actuation while ensuring that a single failure of a vent valve, power supply, or control system does not prevent isolation of the vent path.

The function, capabilities, and testing requirements of the Reactor Coolant System vent system are consistent with the requirements of Item II.b.1 of NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 68

TO FACILITY OPERATING LICENSE NO. DPR-67

FLORIDA POWER AND LIGHT COMPANY

ST. LUCIE PLANT, UNIT NO. 1

DOCKET NO. 50-335

Background

In November 1980, the staff issued NUREG-0737, "Clarification of TMI Action Plan Requirements," which included all TMI Action Plan items approved by the Commission for implementation at nuclear power reactors. NUREG-0737 identifies those items for which Technical Specifications were scheduled for implementation after December 31, 1981. The staff provided guidance on the scope of Technical Specifications for all of these items in Generic Letter 83-37. Generic Letter 83-37 was issued to all Pressurized Water Reactor (PWR) licensees on November 1, 1983. In this Generic Letter, the staff requested licensees to:

1. review their facility's Technical Specifications to determine if they were consistent with the guidance provided in the Generic Letter, and
2. submit an application for a license amendment where deviations or absence of Technical Specifications were found.

By letter dated May 21, 1984, Florida Power and Light Company (the licensee) responded to Generic Letter 83-37 by submitting a Technical Specification change request for St. Lucie Unit 1. The licensee has proposed Technical Specifications for Item II.B.1 - Reactor Coolant System Vents. The remaining items contained in Generic Letter 83-37 will be the subject of a future review when they are submitted.

Evaluation

Reactor Coolant System Vents (II.B.1)

The staff's guidance for Reactor Coolant System Vents (RCS) identified the need for at least one operable vent path at the reactor vessel head and the pressurizer steam space, for Combustion Engineering reactors. Generic Letter 83-37 also provided limiting conditions for operation and the surveillance requirements for the RCS vents. The licensee has proposed TS changes that are consistent with the staff's guidance contained in Generic Letter 83-37. Therefore, the staff finds the proposed changes to be acceptable.

8410010024 840920  
PDR ADOCK 05000335  
P PDR

### Environmental Considerations

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR §51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

### Conclusion

We have concluded, based on the considerations discussion above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to common defense and security or to the health and safety of the public.

Date: September 5, 1984

Principal Contributor:

C. Patel, ORAB