

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. 28 License No. DPR-67

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendment by Florida Power & Light Company (the licensee) dated February 24 and 27, 1978, comply 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 applications, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (1) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (11) 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.



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

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 28, 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

(recald B, for Robert W. Reid, Chief **Operating Reactors Branch #4** Division of Operating Reactors

Attachment: Changes to the Technical Specifications

Date of Issuance: December 14, 1978

# ATTACHMENT TO LICENSE AMENDMENT NO. 28

## FACILITY OPERATING LICENSE NO. DPR-67

# DOCKET NO. 50-335

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 also provided to maintain document completeness.

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# <u>TABLE 1.1</u>

# OPERATIONAL MODES

MODE		REACTIVITY CONDITION, K <sub>eff</sub>	%RATED THERMAL POWER*	AVERAGE COOLANT TEMPERATURE
1.	POWER OPERATION	<u>&gt;</u> 0.99	> 5%	<u>≻</u> 325°F
2.	STARTUP	<u>&gt;</u> 0.99	<u>&lt;</u> 5%	<u>≻</u> 325°F
3.	HOT STANDBY	< 0.99	0	≥_325°F
4.	HOT SHUTDOWN	< 0.99	Q	325°F > T <sub>avg</sub> > 200°F
5.	COLD SHUTDOWN	< 0.99	0	<u>&lt;</u>
6.	REFUELING**	<u>&lt;</u> 0.95	0	<u>&lt;</u> 140°F

\* Excluding decay heat. \*\*Reactor vessel head unbolted or removed and fuel in the vessel.

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# TABLE 1.2

# FREQUENCY NOTATION

NOTATION	FREQUENCY
S	At least once per 12 hours.
D	At least once per 24 hours.
W	At least once per 7 days.
M	At least once per 31 days.
Q	At least once per 92 days.
SA	At least once per 6 months.
R	At least once per 18 months.
S/U	Prior to each reactor startup.
N.A.	Not applicable.

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TEMPERATURE (<sup>0</sup>F)

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#### REACTIVITY CONTROL SYSTEMS

BORATED WATER SOURCES - OPERATING

LIMITING CONDITION FOR OPERATION

3.1.2.8 At least two of the following three borated water sources shall be OPERABLE:

- a. Two boric acid makeup tanks and one associated heat tracing circuit with the contents of the tanks in accordance with Figure 3.1-1, and
- b. The refueling water tank with:
  - 1. A minimum contained volume of 401,800 gallons of water,

2. A minimum boron concentration of 1720 ppm,

3. A maximum solution temperature of 100°F,

- 4. A minimum solution temperature of 55°F when in MODES 1 and 2, and
- 5. A minimum solution temperature of 40°F when in MODES 3 and 4.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With only one borated water source OPERABLE, restore at least two borated water sources to OPERABLE status within 72 hours or make the reactor subcritical within the next 2 hours and borate to a SHUTDOWN MARGIN equivalent to at least  $1\% \ \Delta k/k$  at  $200^{\circ}$ F; restore at least two borated water sources to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.

SURVEILLANCE REQUIREMENTS

4.1.2.8 At least two borated water sources shall be demonstrated OPERABLE:

a. At least once per 7 days by:

1. Verifying the boron concentration in each water source,

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#### FIGURE 3.4-2a

Reactor Coolant System Pressure Temperature Limitations for up to 5 Years of Full Power Operation

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#### FIGURE 3.4-2b



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#### FIGURE 3.4-2c

Reactor Coolant System Pressure Temperature Limitations for up to 40 Years of Full Power Operation

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ECCS SUBSYSTEMS -  $T_{avg} \ge 325^{\circ}F$ 

LIMITING CONDITION FOR OPERATION

3.5.2 Two independent ECCS subsystems shall be OPERABLE with each subsystem comprised of:

- a. One OPERABLE high-pressure safety injection (HPSI) pump (one ECCS subsystem shall include HPSI pump A and the second ECCS subsystem shall include either HPSI pump B or C),
- b. One OPERABLE low-pressure safety injection pump, and
- c. An independent OPERABLE flow path capable of taking suction from the refueling water tank on a Safety Injection Actuation Signal and automatically transferring suction to the containment sump on a Recirculation Actuation Signal.

APPLICABILITY: MODES 1, 2 and 3\*.

### ACTION:

- a. With one ECCS subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.
- b. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date.

\*With pressurizer pressure > 1750 psia.

#### SURVEILLANCE REQUIREMENTS

4.5.2 Each ECCS subsystem shall be demonstrated OPERABLE:

a. At least once per 12 hours by verifying that the following valves are in the indicated positions with power to the valve operators removed:

Valve Number		Valve Function			Valve Position		
۱.	V-3659	1.	Mini-flow isolation	,	1.	Open	
2.	V-3660	2.	Mini-flow isolation		2.	Open	

b. At least once per 31 days on a STAGGERED TEST BASIS by:

1. Verifying that each high-pressure safety injection pump:

- a) Starts (unless already operating) from the control room.
  - b) Develops a discharge pressure of  $\geq$  1138 psig on recirculation flow.
  - c) Operates for at least 15 minutes.
- 2, Verifying that each low-pressure safety injection pump:
  - a) Starts (unless already operating) from the control room.
  - b) Develops a discharge pressure of  $\geq$  175 psig on recirculation flow.
  - c) Operates for at least 15 minutes.
- 3. Verifying that upon a recirculation actuation signal, the containment sump isolation valves open.
- 4. Cycling each testable, power operated valve in the flow path through at least one complete cycle of the full travel.

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ECCS SUBSYSTEMS - T<sub>avg</sub> < 325°F

LIMITING CONDITION FOR OPERATION

3.5.3 As a minimum, one ECCS subsystem comprised of the following shall be OPERABLE:

- a. One OPERABLE high-pressure safety injection pump, and
- b. An OPERABLE flow path capable of taking suction from the refueling water tank on a safety injection actuation signal and automatically transferring suction to the containment sump on a recirculation actuation signal.

APPLICABILITY: MODES 3\* and 4.

ACTION:

- a. With no ECCS subsystem OPERABLE, restore at least one ECCS subsystem to OPERABLE status within 1 hour or be in COLD SHUTDOWN within the next 20 hours.
- b. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date.

SURVEILLANCE REQUIREMENTS

4.5.3 The ECCS subsystem shall be demonstrated OPERABLE per the applicable Surveillance Requirements of 4.5.2.

\*With pressurizer pressure < 1750 psia.

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# REFUELING WATER TANK

LIMITING CONDITION FOR OPERATION

3.5.4 The refueling water tank shall be OPERABLE with:

a. A minimum contained volume 401,800 gallons of borated water,

b. A minimum boron concentration of 1720 ppm,

c. A maximum water temperature of 100°F,

d. A minimum water temperature of 55°F when in MODES 1 and 2, and

e. A minimum water temperature of 40°F when in MODES 3 and 4

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With the refueling water tank inoperable, restore the tank to OPERABLE status within 1 hour or be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.5.4 The RWT shall be demonstrated OPERABLE:

a. At least once per 7 days by:

1. Verifying the water level in the tank, and

2. Verifying the boron concentration of the water.

b. At least once per 24 hours by verifying the RWT temperature.

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# 3/4.1 REACTIVITY CONTROL SYSTEMS

BASES

### 3/4.1.1 BORATION CONTROL

### 3/4.1.1.1 and 3/4.1.1.2 SHUTDOWN MARGIN

A sufficient SHUTDOWN MARGIN ensures that 1) the reactor can be made subcritical from all operating conditions, 2) the reactivity transients associated with postulated accident conditions are controllable within acceptable limits, and 3) the reactor will be maintained sufficiently subcritical to preclude inadvertent criticality in the shutdown condition.

SHUTDOWN MARGIN requirements vary throughout core life as a function of fuel depletion, RCS boron concentration, and RCS  $T_{avg}$ . The most restrictive condition occurs at EOL, with  $T_{avg}$  at no load operating temperature, and is associated with a postulated steam line break accident and resulting uncontrolled RCS cooldown. In the analysis of this accident, a minimum SHUTDOWN MARGIN of  $3.3\% \Delta k/k$  is required to control the reactivity transient. Accordingly, the SHUTDOWN MARGIN required by Specification 3.1.1.1 is based upon this limiting condition and is consistent with FSAR accident analysis assumptions. For earlier periods during the fuel cycle, this value is conservative. With  $T_{avg} \leq 200^{\circ}$ F, the reactivity transients resulting from any postulated accident are minimal and a  $1\% \Delta k/k$  shutdown margin provides adequate protection.

## 3/4.1.1.3 BORON DILUTION AND ADDITION

A minimum flow rate of at least 3000 GPM provides adequate mixing, prevents stratification and ensures that reactivity changes will be gradual during boron concentration changes in the Reactor Coolant System. A flow rate of at least 3000 GPM will circulate an equivalent Reactor Coolant System volume of 11,400 cubic feet in approximately 26 minutes. The reactivity change rate associated with boron concentration changes will be within the capability for operator recognition and control.

### 3/4.1.1.4 MODERATOR TEMPERATURE COEFFICIENT (MTC)

The limiting values assumed for the MTC used in the accident and transient analyses were + 0.5 x  $10^{-4} \Delta k/k/^{\circ}F$  for THERMAL POWER levels < 70% of RATED THERMAL POWER, + 0.2 x  $10^{-4} \Delta k/k/^{\circ}F$  for THERMAL POWER Tevels > 70% of RATED THERMAL and - 2.2 x  $10^{-4} \Delta k/k/^{\circ}F$  at RATED THERMAL POWER. Therefore, these limiting values are included in this specification. Determination of MTC at the specified conditions ensures that the maximum positive and/or negative values of the MTC will not exceed the limiting values.

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#### REACTIVITY CONTROL SYSTEMS

BASES

#### 3/4.1.1:5 MINIMUM TEMPERATURE FOR CRITICALITY

The MTC is expected to be slightly negative at operating conditions. However, at the beginning of the fuel cycle, the MTC may be slightly positive at operating conditions and since it will become more positive at lower temperatures, this specification is provided to restrict reactor operation when  $T_{avg}$  is significantly below the normal operating temperature.

#### 3/4.1.2 BORATION SYSTEMS

The boron injection system ensures that negative reactivity control is available during each mode of facility operation. The components required to perform this function include 1) borated water sources, 2) charging pumps, 3) separate flow paths, 4) boric acid pumps, 5) associated heat tracing systems, and 6) an emergency power supply from OPERABLE diesel generators.

With the RCS average temperature above 200°F, a minimum of two separate and redundant boron injection systems are provided to ensure single functional capability in the event an assumed failure renders one of the systems inoperable. Allowable out-of-service periods ensure that minor component repair or corrective action may be completed without undue risk to overall facility safety from injection system failures during the repair period.

The boration capability of either system is sufficient to provide a SHUTDOWN MARGIN from all operating conditions of  $1.0\% \Delta k/k$  after xenon decay and cooldown to  $200^{\circ}$ F. The maximum boration capability requirement occurs at EOL from full power equilibrium xenon conditions and requires 7,925 gallons of 8.0% boric acid solution from the boric acid tanks or 13,700 gallons of 1720 ppm borated water from the refueling water tank.

The requirements for a minimum contained volume of 401,800 gallons of borated water in the refueling water tank ensures the capability for borating the RCS to the desired level. The specified quantity of borated water is consistent with the ECCS requirements of Specification 3.5.4. Therefore, the larger volume of borated water is specified here too.

With the RCS temperature below 200°F, one injection system is acceptable without single failure consideration on the basis of the stable reactivity condition of the reactor and the additional restrictions prohibiting CORE ALTERATIONS and positive reactivity change in the event the single injection system becomes inoperable.

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## 3/4.4 REACTOR COOLANT SYSTEM

#### BASES

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#### 3/4.4.1 REACTOR COOLANT LOOPS

The plant is designed to operate with both reactor coolant loops and associated reactor coolant pumps in operation, and maintain DNBR above 1.30 during all normal operations and anticipated transients. STARTUP and POWER OPERATION may be initiated and may proceed with one or two reactor coolant pumps not in operation after the setpoints for the Power Level-High, Reactor Coolant Flow-Low, and Thermal Margin/Low Pressure trips have been reduced to their specified values. Reducing these trip setpoints ensures that the DNBR will be maintained above 1.30 during three pump operation and that during two pump operation the core void fraction will be limited to ensure parallel channel flow stability within the core and thereby prevent premature DNB.

A single reactor coolant loop with its steam generator filled above the low level trip setpoint provides sufficient heat removal capability for core cooling while in MODES 2 and 3; however, single failure considerations require plant cooldown if component repairs and/or corrective actions cannot be made within the allowable out-of-service time.

#### 3/4.4.2 and 3/4.4.3 SAFETY VALVES

The pressurizer code safety values operate to prevent the RCS from being pressurized above its Safety Limit of 2750 psia. Each safety value is designed to relieve 2 x  $10^5$  lbs per hour of saturated steam at the value setpoint. The relief capacity of a single safety value is adequate to relieve any overpressure condition which could occur during shutdown. In the event that no safety values are OPERABLE, an operating shutdown cooling loop, connected to the RCS, provides overpressure relief capability and will prevent RCS overpressurization.

During operation, all pressurizer code safety valves must be OPERABLE, to prevent the RCS from being pressurized above its safety limit of 2750 psia. The combined relief capacity of these valves is sufficient to limit the Reactor Coolant System pressure to within its Safety Limit of 2750 psia following a complete loss of turbine generator load while operating at RATED THERMAL POWER and assuming no reactor trip until the first Reactor Protective System trip setpoint (Pressurizer Pressure-High) is reached (i.e., no credit is taken for a direct reactor trip on the loss of turbine) and also assuming no operation of the pressurizer power operated relief valve or steam dump valves.

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#### REACTOR COOLANT SYSTEM

BASES

## SAFETY VALVES (Continued)

Demonstration of the safety valves' lift settings will occur only during shutdown and will be performed in accordance with the provisions of Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition.

#### 3/4.4.4 PRESSURIZER

A steam bubble in the pressurizer ensures that the RCS is not a hydraulically solid system and is capable of accommodating pressure surges during operation. The steam bubble also protects the pressurizer code safety valves and power operated relief valve against water relief. The power operated relief valve and steam bubble function to relieve RCS pressure during all design transients. Operation of the power operated relief valve in conjunction with a reactor trip on a Pressurizer--Pressure-High signal, minimizes the undesirable opening of the springloaded pressurizer code safety valves.

#### 3/4.4.5 STEAM GENERATORS

One OPERABLE steam generator provides sufficient heat removal capability to remove decay heat after a reactor shutdown. The requirement for two steam generators capable of removing decay heat, combined with the requirements of Specifications 3.7.1.1, 3.7.1.2 and 3.7.1.3 ensures adequate decay heat removal capabilities for RCS temperatures greater than 325°F if one steam generator becomes inoperable due to single failure considerations. Below 325°F, decay heat is removed by the shutdown cooling system.

The Surveillance Requirements for inspection of the steam generator tubes ensure that the structural integrity of this portion of the RCS will be maintained. The program for inservice inspection of steam generator tubes is based on a modification of Regulatory Guide 1.83, Revision 1. Inservice inspection of steam generator tubing is essential in order to maintain surveillance of the conditions of the tubes in the event that there is evidence of mechanical damage or progressive degradation due to design, manufacturing errors, or inservice conditions that lead to corrosion. Inservice inspection of steam generator tubing also provides a means of characterizing the nature and cause of any tube degradation so that corrective measures can be taken.

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## 3/4.7 PLANT SYSTEMS

#### BASES

# 3/4.7.1 TURBINE CYCLE

### 3/4.7.1.1 SAFETY VALVES

The OPERABILITY of the main steam line code safety valves ensures that the secondary system pressure will be limited to within its design pressure of 1025 psig during the most severe anticipated system operational transient. The maximum relieving capacity is associated with a turbine trip from 100% RATED THERMAL POWER coincident with an assumed loss of condenser heat sink (i.e., no steam bypass to the condenser).

The specified valve lift settings and relieving capacities are in accordance with the requirements of Section III of the ASME Boiler and Pressure Code, 1971 Edition and ASME Code for Pumps and Valves, Class II. The total relieving capacity for all valves on all of the steam lines is  $11.91 \times 10^6$  lbs/hr which is 106.7 percent the total secondary steam flow of  $11.17 \times 10^6$  lbs/hr at 100% RATED THERMAL POWER. A minimum of 2 OPERABLE safety valves per steam generator ensures that sufficient relieving capacity is available for removing decay heat.

STARTUP and/or POWER OPERATION is allowable with safety valves inoperable within the limitations of the ACTION requirements on the basis of the reduction in secondary system steam flow and THERMAL POWER required by the reduced reactor trip settings of the Power Level-High channels. The reactor trip setpoint reductions are derived on the following bases:

> For two loop operation  $SP = \frac{(X) - (Y)(V)}{X} \times (106.5)$

where:

SP

- reduced reactor trip setpoint in percent of RATED THERMAL POWER
- V

=

maximum number of inoperable safety valves per steam line

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PLANT S	YSTEMS			•	•	1	٧
BASES	1						、
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	106.5	=	Power Level-H	ligh Trip Se	tpoint for	two loop	p operation
	<b>X</b> .	= `	Total relievi steam line ir	ng capacity 1bs/hour•(	of all sa 5.95 x 10 <sup>6</sup>	fety val lbs/hr.	ves per )
4	' <b>Y</b>	=	Maximum relie in lbs/hour (	ving capaci 7.44 x 10 <sup>5</sup>	ty of any lbs/hr.)	one safet	ty valve
<u>3/4.7.1</u>	.2 AUX	ILIAR	Y FEEDWATER PL	IMPS			
Th Reactor normal power.	e OPERA Coolar operati	ABILIT ht Sys ing co	Y of the auxil tem can be coo nditions in th	iary feedwa led down to e event of	ter pumps less than a total lo	ensures 1 325°F fi ss of of†	that the rom f-site
An capacit heat an system	y two c y to pr d reduc may be	of the covide ce the place	three auxilia sufficient fe RCS temperatu d into operati	ry feedwate edwater flo re to 325°F on for cont	r pumps ha w to remov where the inued cool	ve the re e reactor shutdowr down.	equired r decay n cooling
<u>3/4.7.1</u>	<u>.3 CON</u>	IDENSA	TE STORAGE TAN	K	~	-	
Th water y the Rea loss of maintai dischar	e OPERA olume e ctor Co off-si n the R ge to a	ABILIT ensure olant ite po CS at itmosp	Y of the conde s that suffici System to les wer. The mini HOT STANDBY c	nsate stora ent water i s tban 325° mum water y onditions f	ge tank wi s ayailabl F in the e olume is s or 8 hours	th the mi e for coo vent of a ufficient with ste	inimum oldown of a total t to eam
3/4.7.1	.4 ACT	IVITY	-			•	`
Th the res of 10 C calcula coincid of the power. acciden	e limit ultant FR Part tions f ent 1.0 affecte These t analy	ation off-s 100 for an GPM d ste value vses.	s on secondary ite radiation limits in the assumed steam primary to sec am line and a s are consiste	system spe dose will b event of a line ruptu ondary tube concurrent nt with the	cific active e limited steam line re include leak in t loss of of assumptio	vity ensu to a smal rupture the effe he steam fsite ele ns used i	ure that 11 fraction . The dose ects of a generator ectrical in the
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