



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 14, 2001

Mr. T. F. Plunkett  
President, Nuclear Division  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, Florida 33408-0420

SUBJECT: ST. LUCIE PLANT, UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS  
REGARDING SHIFT TECHNICAL ADVISOR STAFFING REQUIREMENTS  
(TAC NOS. MB0611 AND MB0612)

Dear Mr. Plunkett:

The Commission has issued the enclosed Amendment Nos. 113 and 173 to Facility Operating Licenses Nos. DPR-67 and NPF-16 for the St. Lucie Plant, Units Nos. 1 and 2. These amendments consist of changes to the Technical Specifications in response to your application dated November 28, 2000, as supplemented on January 17, 2001 and February 15, 2001.

These amendments revise the St. Lucie Technical Specifications to permit, as an alternative to the current dedicated Shift Technical Advisor (STA), a single, qualified individual to simultaneously serve as an STA and a Senior Reactor Operator, and either option would be permitted on a shift-by-shift basis.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in black ink, appearing to read "Kahtan N. Jabbour".

Kahtan N. Jabbour, Senior Project Manager, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-335 and 50-389

Enclosures:

1. Amendment No. 113 to DPR-67
2. Amendment No. 173 to NPF-16
3. Safety Evaluation

cc w/encls: See next page

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These amendments revise the St. Lucie Technical Specifications to permit, as an alternative to the current dedicated Shift Technical Advisor (STA), a single, qualified individual to simultaneously serve as an STA and a Senior Reactor Operator, and either option would be permitted on a shift-by-shift basis.

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Sincerely,

/RA by B. Moroney Acting for/

Kahtan N. Jabbour, Senior Project Manager, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

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UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

FLORIDA POWER & LIGHT COMPANY

DOCKET NO. 50-335

ST. LUCIE PLANT UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 113  
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 November 28, 2000, as supplemented on January 17, 2001 and February 15, 2001, 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. 113 , 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 its date of issuance and shall be implemented within 120 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard P. Correia, Chief, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 14, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 113

TO FACILITY OPERATING LICENSE NO. DPR-67

DOCKET NO. 50-335

Replace the following pages of the Appendix A Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

Remove Pages

6-4  
6-6

Insert Pages

6-4  
6-6

**TABLE 6.2-1**  
**MINIMUM SHIFT CREW COMPOSITION**  
**TWO UNITS WITH TWO SEPARATE CONTROL ROOMS**

WITH UNIT 2 IN MODE 5 OR 6 OR DEFUELED		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3 or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	2 <sup>b</sup>
STA *	1	None

WITH UNIT 2 IN MODE 1, 2, 3, or 4		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3 or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	1
STA *	1 <sup>c</sup>	None

- SS - Shift Supervisor with a Senior Reactor Operator's License on Unit 1
- SRO - Individual with a Senior Reactor Operator's License on Unit 1
- STA - Shift Technical Advisor
- RO - Individual with a Reactor Operator's License on Unit 1
- AO - Auxiliary Operator

Except for the Shift Supervisor, the Shift Crew Composition may be one less than the minimum requirements of Table 6.2-1 for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the Shift Crew Composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 1, 2, 3 or 4, an individual (other than the Shift Technical Advisor) with a valid SRO license shall be designated to assume the Control Room command function. During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 5 or 6, an individual with a valid SRO or RO license shall be designated to assume the Control Room command function.

- a/ Individual may fill the same position on Unit 2.
- b/ One of the two required individuals may fill the same position on Unit 2.
- c/ If STA position is filled by an STA qualified Shift Supervisor or dedicated STA, then the individual may fill the same position on Unit 2.
- \* A single, onsite STA position shall be manned in Mode 1, 2, 3, and 4 unless the Shift Supervisor meets the qualifications for the STA as required by Technical Specification 6.3.1 or an individual on each unit with a Senior Reactor Operator's license meets the qualifications for the STA as required by Technical Specification 6.3.1.

## **6.0 ADMINISTRATIVE CONTROLS**

### **6.3 UNIT STAFF QUALIFICATIONS**

- 6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI / ANS-3.1-1978 for comparable positions, except for:
- (1) the Health Physics Supervisor who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975,
  - (2) the Shift Technical Advisor who shall have specific training in plant design and plant operating characteristics, including transients and accidents, and any of the following educational requirements:
    - Bachelor's degree in engineering from an accredited institution; or
    - Professional Engineer's (PE) license obtained by successful completion of the PE examination; or
    - Bachelor's degree in engineering technology from an accredited institution, including course work in the physical, mathematical, or engineering sciences, or
    - Bachelor's degree in physical science from an accredited institution, including course work in the physical, mathematical, or engineering sciences.
  - (3) the Multi-Discipline Supervisors who shall meet or exceed the following requirements:
    - a. Education: Minimum of a high school diploma or equivalent.
    - b. Experience: Minimum of four years of related technical experience, which shall include three years power plant experience of which one year is at a nuclear power plant.
    - c. Training: Complete the Multi-Discipline Supervisor training program.

### **6.4 TRAINING**

- 6.4.1 A retraining and replacement training program for the unit staff shall be maintained under the direction of the Training Manager and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI / ANS-3.1 - 1978 and 10 CFR Part 55 and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees, and shall include familiarization with relevant industry operational experience.

### **6.5 REVIEW AND AUDIT**

#### **6.5.1 FACILITY REVIEW GROUP (FRG)**

##### **FUNCTION**

- 6.5.1.1 The Facility Review Group shall function to advise the Plant General Manager on all matters related to nuclear safety.

##### **COMPOSITION**

- 6.5.1.2 The FRG shall have voting members composed of individuals from each of the following disciplines:

Operations	Electrical Maintenance
Reactor Engineering	Mechanical Maintenance
Health Physics	Technical Support
Chemistry	Quality Assurance / Control
Licensing	Services
Instrument and Control	

The Plant General Manager shall appoint the FRG members, in writing, and from this membership shall designate, in writing, a FRG Chairman.

Members shall meet or exceed the qualifications required for Managers, Supervisors, or Professional-Technical, as appropriate, pursuant to Specification 6.3.1.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

FLORIDA POWER & LIGHT COMPANY

ORLANDO UTILITIES COMMISSION OF

THE CITY OF ORLANDO, FLORIDA

AND

FLORIDA MUNICIPAL POWER AGENCY

DOCKET NO. 50-389

ST. LUCIE PLANT UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 173  
License No. NPF-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Florida Power & Light Company, et al. (the licensee), dated November 28, 2000, as supplemented on January 17, 2001 and February 15, 2001, 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. NPF-16 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. 173, 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 its date of issuance and shall be implemented within 120 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard P. Correia, Chief, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: March 14, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 173

TO FACILITY OPERATING LICENSE NO. NPF-16

DOCKET NO. 50-389

Replace the following pages of the Appendix A Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

Remove Pages

6-5  
6-6

Insert Pages

6-5  
6-6

**TABLE 6.2-1**

**MINIMUM SHIFT CREW COMPOSITION  
TWO UNITS WITH TWO SEPARATE CONTROL ROOMS**

WITH UNIT 1 IN MODE 5 OR 6 OR DEFUELED		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3, or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	2 <sup>b</sup>
STA *	1	None

WITH UNIT 1 IN MODE 1, 2, 3 or 4		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3, or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	1
STA *	1 <sup>c</sup>	None

- SS - Shift Supervisor with a Senior Reactor Operator's License on Unit 2
- SRO - Individual with a Senior Reactor Operator's License on Unit 2
- RO - Individual with a Reactor Operator's License on Unit 2
- AO - Auxiliary Operator
- STA - Shift Technical Advisor

Except for the Shift Supervisor, the Shift Crew Composition may be one less than the minimum requirements of Table 6.2-1 for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the Shift Crew Composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 1, 2, 3 or 4, an individual (other than the Shift Technical Advisor) with a valid SRO license shall be designated to assume the Control Room command function. During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 5 or 6, an individual with a valid SRO or RO license shall be designated to assume the Control Room command function.

a/ Individual may fill the same position on Unit 1.

b/ One of the two required individuals may fill the same position on Unit 1.

c/ If STA position is filled by an STA qualified Shift Supervisor or dedicated STA, then the individual may fill the same position on Unit 1.

\* A single, onsite STA position shall be manned in Mode 1, 2, 3, and 4 unless the Shift Supervisor meets the qualifications for the STA as required by Technical Specification 6.3.1 or an individual on each unit with a Senior Reactor Operator's license meets the qualifications for the STA as required by Technical Specification 6.3.1.

## **6.0 ADMINISTRATIVE CONTROLS**

### **6.2.3 SHIFT TECHNICAL ADVISOR**

The Shift Technical Advisor function is to provide on shift advisory technical support in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit.

### **6.3 UNIT STAFF QUALIFICATIONS**

- 6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI / ANS-3.1-1978 for comparable positions, except for:
- (1) the Health Physics Supervisor who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975,
  - (2) the Shift Technical Advisor who shall have specific training in plant design and plant operating characteristics, including transients and accidents, and any of the following educational requirements:
    - Bachelor's degree in engineering from an accredited institution; or
    - Professional Engineer's (PE) license obtained by successful completion of the PE examination; or
    - Bachelor's degree in engineering technology from an accredited institution, including course work in the physical, mathematical, or engineering sciences, or
    - Bachelor's degree in physical science from an accredited institution, including course work in the physical, mathematical, or engineering sciences.
  - (3) the Multi-Discipline Supervisors who shall meet or exceed the following requirements:
    - a. Education: Minimum of a high school diploma or equivalent.
    - b. Experience: Minimum of four years of related technical experience, which shall include three years power plant experience of which one year is at a nuclear power plant.
    - c. Training: Complete the Multi-Discipline Supervisor training program.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NOS. 113 AND 173

TO FACILITY OPERATING LICENSES NOS. DPR-67 AND NPF-16

FLORIDA POWER AND LIGHT COMPANY, ET AL.

ST. LUCIE PLANT, UNITS NOS. 1 AND 2

DOCKET NOS. 50-335 AND 50-389

1.0 INTRODUCTION

By letter dated November 28, 2000, as supplemented on January 17, 2001 and February 15, 2001, Florida Power and Light Company (the licensee) requested amendments to Operating Licenses DPR-67 and NPF-16 for St. Lucie Units 1 and 2, respectively, by incorporating revisions to the Technical Specifications (TS) related to the Shift Technical Advisor (STA). The proposed amendments would permit, as an alternative to the current dedicated STA, an on-shift Senior Reactor Operator (SRO) position to be combined with the required STA position, and either option would be permitted on a shift-by-shift basis.

The licensee's supplementary submittals dated January 17, 2001 and February 15, 2001, did not affect the original proposed no significant hazards determination, or expand the scope of the request as noticed in the *Federal Register* on December 27, 2000 (65 FR 81922).

2.0 BACKGROUND

Following the accident at Three Mile Island (TMI) Unit 2 in March 1979, the U.S. Nuclear Regulatory Commission (NRC) identified the need for power reactor licensees to assign an on-shift technical advisor who could provide engineering and accident assessment expertise and advice to the shift supervisor in the event of abnormal or accident conditions. This position was designated Shift Technical Advisor (STA). The qualifications for the person occupying the STA position are contained in the "Commission Policy Statement on Engineering Expertise on Shift," 50 FR 43621 (Oct. 28, 1985), and NUREG-0737, "Clarification of TMI Action Plan Requirements," Item I.A.1.1, dated November 1980. STA qualifications include a bachelor's degree or equivalent, plus specific training in plant design, layout, and controls.

The Commission's policy statement specifies two options for a licensee to provide an STA. Option 1 permits licensees to combine one of the required on-shift SRO positions with the STA position into a single "dual role" position (SRO/STA). Option 2 permits licensees to staff the STA position separately with a "dedicated STA." On February 13, 1986, the NRC staff issued Generic Letter (GL) 86-04, "Policy Statement on Engineering Expertise on Shift." In GL 86-04, the Commission encouraged licensees to move toward the dual role SRO/STA (Option 1), but stated that either option for staffing the STA position may be used on each shift.

ENCLOSURE

To date, the licensee has chosen to provide an STA in accordance with Option 2 by using a dedicated STA. This choice is reflected in the St. Lucie TS, which currently require the exclusive use of a dedicated STA.

The proposed amendments to Facility Operating License DPR-67 for St. Lucie Unit 1 and NPF-16 for St. Lucie Unit 2 would revise each unit's TS as follows:

TS Table 6.2-1, "Minimum Shift Crew Composition - Two Units With Two Separate Control Rooms," would be revised to permit, as an alternative to the current, dedicated STA, an on-shift SRO position to be combined with the STA position, in accordance with Option 1 of the Commission's policy statement. An STA qualified Shift Supervisor would satisfy the requirement for both units. In the absence of a dedicated STA or STA qualified Shift Supervisor, each unit would be required to have an STA qualified SRO.

TS 6.3.1(2), under "Unit Staff Qualifications," would be revised to provide options for satisfying the educational requirements for the STA, consistent with the guidelines of the NRC Policy Statement.

The proposed amendments would permit the licensee to exercise either of the STA options on a shift-by-shift basis.

### 3.0 EVALUATION

The licensee proposes to add the following footnote related to the STA position discussed in TS Table 6.2-1, page 6-4 (Unit 1) and page 6-5 (Unit 2):

A single, onsite STA position shall be manned in MODE 1, 2, 3, and 4 unless the Shift Supervisor meets the qualifications for the STA as required by Technical Specification 6.3.1 or an individual on each unit with a Senior Reactor Operator's License meets the qualifications for the STA as required by Technical Specification 6.3.1.

The Commission's Policy Statement on Engineering Expertise on Shift allows either an on-shift dedicated STA who meets the STA criteria of NUREG-0737, Item I.A.1.1, or an individual assigned to each operating shift crew who is a licensed SRO on the nuclear power unit(s) to which he or she is assigned and who meets the STA requirements of NUREG-0737, Item I.A.1.1, and one of four specific educational requirements listed below.

The four specific educational requirements are the subject of the licensee's proposed change to TS 6.3.1(2) for Units 1 and 2 as follows:

the Shift Technical Advisor who shall have training in plant design and plant operating characteristics, including transients and accidents, and any of the following educational requirements:

- Bachelor's degree in engineering from an accredited institution; or
- Professional Engineer's (PE) license obtained by successful completion of the PE examination; or

- Bachelor's degree in engineering technology from an accredited institution, including course work in the physical, mathematical, or engineering sciences; or
- Bachelor's degree in a physical science from an accredited institution, including course work in the physical, mathematical, or engineering sciences.

The licensee's proposed change is equivalent to the STA training criteria of NUREG-0737, Item I.A.1.1, and the educational requirements specified in the Policy Statement. Therefore, the proposed revision to TS 6.3.1(2) for Units 1 and 2 is acceptable. Also, the above proposed revision to TS Table 6.2-1 for Units 1 and 2 is consistent with the Commission's Policy Statement, will ensure that engineering and accident assessment expertise will be available on shift, and is, therefore, also acceptable.

Finally, the licensee proposes to add another footnote to TS Table 6.2-1 at the bottom of page 6-4 (Unit 1) and page 6-5 (Unit 2). In the Unit 1 TS, the statement would read, "If STA position is filled by an STA qualified Shift Supervisor or dedicated STA, then the individual may fill the same position on Unit 2." In the Unit 2 TS, the statement would read, "If STA position is filled by an STA qualified Shift Supervisor or dedicated STA, then the individual may fill the same position on Unit 1." The footnote preserves the option of using a single, dedicated STA on shift to support both units, which satisfies Option 2 of the Policy Statement. Since the Policy Statement further indicates, ". . . in the long term, the Commission would prefer that the STA be combined with the Shift Supervisor in the dual-role position," use of an STA qualified Shift Supervisor, who is available to support both units, will also satisfy Option 2 of the Policy Statement. Thus, the additional proposed footnote to TS Table 6.2-1 is acceptable.

Additionally, the Policy Statement indicates, "Either Option 1 or Option 2 may be used on each shift. A utility may use Option 1 on some shifts or may use the same option on every shift." Therefore, the licensee's request to exercise either option on a shift-by-shift basis is acceptable.

The staff concludes that the proposed revisions to the TS for St. Lucie Units 1 and 2 related to the STA are consistent with the Commission's Policy Statement on Technical Expertise on Shift and NUREG-0737, Item I.A.1.1, will ensure that engineering and accident assessment expertise will be available on shift, and are, therefore, acceptable.

#### 4.0 STATE CONSULTATION

Based upon a letter dated March 8, 1991, from Mary E. Clark of the State of Florida, Department of Health and Rehabilitative Services, to Deborah A. Miller, Licensing Assistant, NRC, the State of Florida does not desire notification of issuance of license amendments.

#### 5.0 ENVIRONMENTAL CONSIDERATION

These amendments relate to changes in record keeping, administrative procedures or requirements. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (65 FR 81922, dated December 27, 2000). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

## 6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Richard J. Eckenrode, NRR

Date: March 14, 2001

Mr. T. F. Plunkett  
Florida Power and Light Company

**ST. LUCIE PLANT**

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