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91-11

JUN 1 2 1991

Docket No. 50-389 License No. NPF-16

Florida Power and Light Company ATTN: Mr. J. H. Goldberg President - Nuclear P. O. Box 14000 Juno Beach, FL 33408-0420

Gentlemen:

SUBJECT: MEETING SUMMARY - ST. LUCIE DOCKET NO. 50-389

This letter refers to the enforcement conference conducted at the NRC Region II office in Atlanta on May 30, 1991. The purpose of the meeting was to discuss the circumstances surrounding the apparent violations identified in NRC Inspection Report Nos. 50-335/91-11 and 50-389/91-11. During this meeting, the licensee made a presentation regarding their assessment of the apparent violations.

It is our opinion that this meeting provided a better understanding of the details `surrounding the apparent violations and intended corrective actions. You will be advised by separate correspondence of the results of our deliberations on this matter.

Should you have any questions concerning this letter, please let us know.

Sincerely,

Original signed by

Luis A. Reyes, Director Division of Reactor Projects

Enclosures: 1. List of Attendees 2. Presentation Summary

cc w/encls: D. A. Sager, Vice President St. Lucie Nuclear.Plant P. O. Box 128 Ft. Pierce, FL 34954-0128

G. J. Boissy, Plant Manager St. Lucie Nuclear Plant P. O. Box 128 Ft. Pierce, FL 34954-0128

cc w/encls cont'd: (See page 2)

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#### Florida Power and Light Company

cc w/encls cont'd: Harold F. Reis, Esq. Newman & Holtzinger 1615 L Street, NW Washington, D. C. 20036

John T. Butler, Esq. Steel, Hector and Davis 400 Southeast Financial Center Miami, FL 33131-2398

Jacob Daniel Nash Office of Radiation Control Department of Health and Rehabilitative Services 1317 Winewood Boulevard Tallahassee, FL 32399-0700

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

Jack Shreve Public Counsel Office of the Public Counsel c/o The Florida Legislature 111 West Madision Ave., Room 812 Tallahassee, FL 32399-1400

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

James V. Chisholm County Administrator St. Lucie County 2300 Virginia Avenue, Fort Pierce, FL 34982

Charles B. Brinkman Washington Nuclear Operations ABB Combustion Engineering, Inc. 12300 Twinbrook Parkway, Suite 330 Rockville, MD 20852

State of Florida

bcc w/encls: (See page 3)



Florida Power and Light Company

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bcc w/encls: Document Control Desk R. Crlenjak, RII J. Norris, NRR

NRC Resident Inspector U.S. Nuclear Regulatory Commission 7585 South Highway A1A Jensen Beach, FL 33457



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#### Florida Power and Light Company

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bcc w/encl? Document Control Desk R. Crlenjak, RII J. Norris, NRR

NRC Resident Inspector U.S. Nuclear Regulatory Commission 7585 South Highway A1A Jensen Beach, FL 33457



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#### **ENCLOSURE 1**

#### LIST OF ATTENDEES

#### U. S. Nuclear Regulatory Commission

L. A. Reyes, Director, Division of Reactor Projects (DRP)

G. R. Jenkins, Director, Enforcement and Investigation Coordination Staff

- M. V. Sinkule, Chief, Reactor Projects Branch 2, DRP R. V. Crlenjak, Chief, Reactor Projects Section 2B, DRP
- R. P. Schin, Project Engineer, Reactor Projects Section 2B, DRP
- S. A. Elrod, Senior Resident Inspector, St. Lucie, DRP

H. N. Berkow, Director, Project Directorate II-2, NRR

- J. A. Norris, Licensing Project Manager, NRR
- C. R. Ogle, Project Engineer, Reactor Projects Section 2B, DRP
- D. H. Dorman, Project Engineer, Project Directorate II-2, NRR

#### Florida Power and Light Company (FP&L)

- J. H. Goldberg, President Nuclear Division
- W. H. Bohlke, Vice President, Nuclear Engineering and Licensing D. A. Sager, Site Vice President, St. Lucie
- C. L. Burton, Operations Superintendent
- G. J. Boissy, Plant Manager
- R. E. Dawson, Maintenance Superintendent
- K. N. Harris, Senior Vice President, Nuclear Operations





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ENCLOSURE 2



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# **CURRENT POLICY AS OF 1987**

STANDING NIGHT ORDER

NOTE This Standing Night Order shall not expire until written notification is received.

Subject: Locked Valves

Instructions:

- 1. Locked valves shall be locked in a manner which prevents significant rotation of the handwheel.
- 2. Locking 2 valves in close proximity to each other with a single locking device is unacceptable.
- 3. The unlocking and repositioning of a locked valve requires the knowledge and authority of the Shift ANPS/NWE and shall be documented via the Locked Valve Deviation log.
  - 4. To check the position of a valve which is apparently locked open, unlock the valve, close the valve slightly, re-open the valve and lock it.
  - 5. To check the position of a valve which is apparently locked closed, unlock the valve, attempt to close the valve and re-lock it.

#### Discussion:

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Valves are locked at PSL based on regulatory requirements, drawing designations and Operations Supervision discretion. All valves which are locked, need to be included in the Locked Valve Procedure, AP 0010123, and be properly documented when manipulated.

Distribution: NPS, ANPS 1 & 2, Standing Night Order Book 1 & 2, Training Department, Night Orders

(Copies shall be retained in each Control Room's Standing Night Order Book)

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### EVENT CHRONOLOGY

#### <u>10/21/90</u>

2-SB-14365 WAS PLACED IN THE LOCKED OPEN POSITION.

#### 10/23/90

2-SB-14365 WAS POSITIONED TO LOCKED THROTTLED TO BALANCE COMPONENT COOLING WATER FLOW AND WAS ENTERED IN THE DEVIATION LOG.

#### <u>11/23/90</u>

SHUTDOWN COOLING WAS SECURED; 2A SHUTDOWN COOLING HEAT EXCHANGER INDICATED COMPONENT COOLING WATER FLOW.

11/29/90

THE SHIFT ASSISTANT NUCLEAR PLANT SUPERVISOR REVIEWED THE VALVE DEVIATION LOG. AN OPERATOR WAS DISPATCHED TO 2-SB-14365, WITH INSTRUCTIONS TO RESTORE IT TO THE LOCKED OPEN POSITION. VALVE 2-SB-14365 WAS BELIEVED TO BE MISPOSITIONED TO THE LOCKED CLOSED POSITION.

#### <u>11/29/90-4/26/91</u>

24 OPPORTUNITIES BY 13 DIFFERENT OPERATORS FAILED TO DISCOVER THE MISPOSITIONED VALVE.

#### <u>4/26/91</u>

WHILE PERFORMING THE D.C. GROUND ISOLATION PROCEDURE, 2-SB-14365 WAS FOUND LOCKED CLOSED. OPERATIONS DEPARTMENT OPENED THE VALVE AND ESTABLISHED PROPER COMPONENT COOLING WATER FLOW TO THE 2A SHUTDOWN COOLING HEAT EXCHANGER. THE NRC WAS PROMPTLY NOTIFIED.

## EVENT ROOT CAUSES

PROBLEM #1

2-SB-14365 WAS PLACED IN THE LOCKED CLOSED POSITION

**ROOT CAUSE** 

COGNITIVE PERSONNEL ERROR BY A NON-LICENSED OPERATOR

PROBLEM #2

FAILURE TO DETECT 2-SB-14365 IN THE CLOSED POSITION ON NUMEROUS SUBSEQUENT CHECKS

ROOT CAUSES

- 1. MANAGEMENT LEVEL OF EXPECTATION WAS NOT EFFECTIVELY DISSEMINATED TO OPERATIONS PERSONNEL.
- 2. MANAGEMENT FOLLOW-UP OF EXISTING POLICY IMPLEMENTATION WAS INSUFFICIENT.
- 3. OPERATORS WERE USING VISUAL VERIFICATION DURING LOCKED VALVE CHECKS.

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### EVENT ROOT CAUSES (Continued)

#### **CONTRIBUTING FACTORS:**

- 1. FAULTY VALVE POSITION INDICATOR
- 2. VALVE ACCESSIBILITY

#### PROBLEM #3

OUR CURRENT VALVE VERIFICATION POLICY ALLOWED AN OPPORTUNITY FOR POSSIBLE MISPOSITIONING OF THROTTLED VALVES

#### **ROOT CAUSE**

PRESENT METHOD OF VERIFYING POSITION OF THROTTLED VALVES IS INADEQUATE





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# COMPLETED CORRECTIVE ACTIONS (Continued)

- PROCEDURE CHANGE TO MAKE CLEAR EXPECTATIONS REGARDING VERIFICATION METHOD TO DATA SHEET 36
- SENIOR REACTOR OPERATOR/NON-LICENSED OPERATOR TANDEM WALKDOWNS OF DATA SHEET 36, TO IDENTIFY ACCESSIBILITY AND TIME REQUIREMENTS
- VALVE POSITION INDICATOR ENHANCEMENT COMPLETED ON ALL UNIT 1 AND UNIT 2 SAFETY RELATED VALVES
- QUALITY INSTRUCTION 11-PR/PSL-2 TEST CONTROL NOW ADDRESSES POST MAINTENANCE OF VALVE POSITION INDICATORS
- INPO NUCLEAR NETWORK ENTRY -"ENHANCEMENT TO BUTTERFLY VALVE POSITION INDICATION"
- DATA SHEET 36 CHANGED TO INCORPORATE FUNCTIONAL CHECK OF THROTTLED VALVE POSITION



# ENGINEERING ASSESSMENT OF THE

# SAFETY SIGNIFICANCE

# FOR

# VALVE 2-SB-14365

# MISALIGNMENT















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### LARGE BREAK LOSS OF COOLANT ACCIDENTS EXAMINED

- CASE I: DESIGN BASIS
  - ONE SPRAY TRAIN
  - FOUR EMERGENCY FAN COOLERS
- CASE II: 2-SB-14365 CLOSED FAILURE OF SPRAY PUMP B
  - SPRAY TRAIN A AVAILABLE (NO SHUTDOWN COOLING HEAT EXCHANGER 2A COOLING)
  - FOUR EMERGENCY FAN COOLERS AVAILABLE
- CASE III: 2-SB-14365 CLOSED LOSS OF OFFSITE POWER AND EMERGENCY DIESEL GENERATOR B
  - SPRAY TRAIN A AVAILABLE (NO SHUTDOWN COOLING HEAT EXCHANGER 2A COOLING)
  - TWO EMERGENCY FAN COOLERS AVAILABLE



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