LICENSEE: Florida Power Corporation

FACILITY: Crystal River Unit 3

SUMMARY OF MEETING ON JULY 22, 1997, REGARDING CRYSTAL RIVER 3 SUBJECT:

RESTART PROGRESS

On July 22, 1997, representatives of the Florida Power Corporation, licensee for Crystal River Nuclear Plant, Unit 3 (CR3), met with members of the staff at the U.S. Nuclear Regulatory Commission (NRC) Headquarters in Rockville, Maryland. Enclosure 1 is a list of attendees. Enclosure 2 is a copy of the handout distributed at the meeting.

The licensee presented an overview of its progress toward readiness for restart, including issues specified in the Confirmatory Action Letter (CAL No. 2-97-001) dated March 4, 1997 and discussed the effectiveness of its corrective action measures. The licensee indicated that it has established clear plans, schedules and metrics for performance measurement to support its planned December 1997 restart. The staff requested the licensee to establish good communication with them regarding the licensee's schedule for its licensing submittals and target date for staff review and approval.

> 151 L. Raghavan, Project Manager Project Directorate II-3 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosures: 1. Attendance List

2. Meeting Handout

cc w/enclosures: See next page

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SUMMARY OF MEETING ON JULY 22, 1997, REGARDING CRYSTAL RIVER 3 RESTART PROGRESS

Distribution: HARD COPY w/Enclosures 1 and 2 Docket File PUBLIC L. Raghavan Crystal River Reading DGC ACRS

E-Mail w/Enclosure 1

- S. Collins/F. Miraglia (SJC1,FJM) R. Zimmerman (RPZ)
- B. Boger (BAB2)
- J. Zwolinski (JAZ)
- F. Hebdon (FJH)
- B. Clayton (BAC2)
- D. Ross (SLM3)
- J. Jaudon (JPJ)
- H. Cristensen (HOC)

- N. Dudley (NFD) S. Cahill (SJC2) J. Johnson (JRJ)
- L. Reyes (LAR1)
- C. Julian (CAJ)
- K. Landis (KDL)



### UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

July 24, 1997

LICENSEE: Florida Power Corporation

FACILITY: Crystal River Unit 3

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### Florida Power Corporation

cc: Mr. R. Alexander Glenn Corporate Counsel Florida Power Corporation MAC-A5A P.O. Box 14042 St. Petersburg, Florida 33733-4042

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Chairman
Board of County Commissioners
Citrus County
110 North Apopka Avenue
Iverness, Florida 34450-4245

Mr. Robert E. Grazio, Director Nuclear Regulatory Affairs (SA2A) Florida Power Corporation Crystal River Energy Complex 15760 W. Power Line Street Crystal River, Florida 34428-6708

### CRYSTAL RIVER UNIT NO. 3 GENERATING PLANT

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Regional Administrator, Region II U.S. Nuclear Regulatory Commission 61 Forsyth Street, SW., Suite 23T85 Atlanta, GA 30303-3415

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Senior Vice President,
Nuclear Operations
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Mr. Kerry Landis U.S. Nuclear Regulatory Commission 61 Forsyth Street, SW., Suite 23T85 Atlanta, GA 30303-3415

### CRYSTAL RIVER 3 MEETING

### JULY 22, 1997

Name
Sam Collins
Roy Zimmerman
Bruce Boger
Luis Reyes
Caudle Julian
L. Raghavan
K. Landis
Johns Jaudon
Fred Hebdon
Chris Cristensen
S. Cahill
John J. Holden
Mark Van Sicklen D. Kunsemiller
John Paul Cowan
Roy Anderson
Thomas Taylor
Chip Pardee
Jim Baumstark
Jim Terry
Robert Grazio
Bruce Hickle
ter severe criticismo

Organization NRC-NRR NRC-NRR NRC-NRR NRC-RII NRC-RII NRC-NRR NRC-RII NRC-RII NRC-NRR NRC-RII NRC-RII Florida Power Corp. Florida Power Corp.

## FLORIDA POWER CORPORATION CRYSTAL RIVER - UNIT 3

### 

ENCLOSURE 2





7/22/97

### FLORIDA POWER CORPORATION CRYSTAL RIVER - UNIT 3

## FPC RESTART PROGRESS July 22, 1997



### **AGENDA**

FFC	
CR-3	
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10-15	ľ
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	1
	4
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7/22/97

0	pening	Remarks
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Restart Status

Engineering Progress

MCAP Progress

 Condition of CR-3 at Startup / Metrics to Measure Performance

Technical Issues

Operations Focus / Update

**Concluding Statements** 

R. A. Anderson

J. P. Cowan

J. J. Holden

J. S. Baumstark

B. J. Hickle

J. J. Holden

C. G. Pardee

R. A. Anderson



### **Current Status**



Steam Generator Inspection

- FWP-7 Diesel Generator Progress
- · Turbine Generator Rotor Removal
- "A" Diesel and "A" ECCS Work Preparation

7/22/97



### CR - 3 Readiness Program Objectives

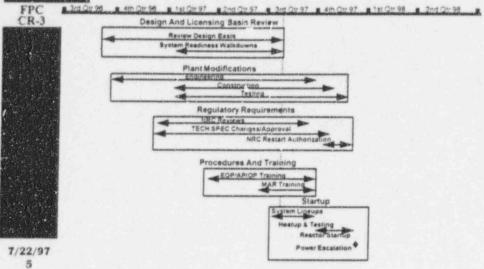
- 1. Frequent Open Communications
- 2. Resolution of Confirmatory Action Letter Issues
- 3. Close Book on First 20 Years of Operation
- 4. Invest for the Next 20 years of Operation
- 5. Integrate Startup Activities Into Long Term Improvement Plan

Do What Is Right For The Long Haul, Not Just What is Required For Startup

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### **Restart Schedule**





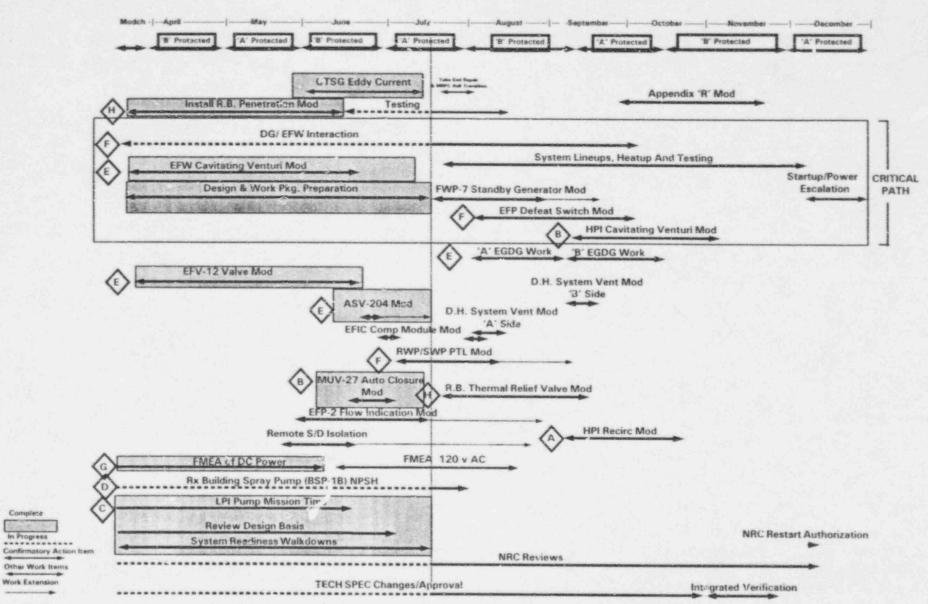
### **Confirmatory Action Letter**

1. Design Issues Identified in FPC Letter of 10/28/96

- 2. Extent of Condition Reviews
- 3. Resolution of Safety and Licensing Issues
- 4. MCAP II Progress
- 5. Regional Administrator Concurrence for Mode 2

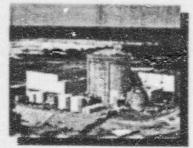
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### Crystal River Unit #3 Restart Milestones



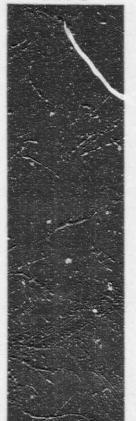
Complete

Other Work Items Work Extension



### FPC CR-3

### Resolution of Confirmatory Action Letter Design Issues From FPC Letter of 10/28/96



Design Issue Descript	lon NRC B	riefings	NPC Submittal &	Modification		
	Tech Staff	Restart Fanoi	Follow-up Briefing	Work	Testing	Complete
A. HPI Pump Recircu	lation Line Complete	Complete	None / TBD	25 %	Oct	Nov
B. HPI System Modifi	cations Complete	Complete	Complete	45 %	Jul - Nov	Nev
C. LPI Pump Mission	Time Complete	Complete	Complete	90 %	Complete	Sep
D. Reactor Building 5	Spray Pump Complete	Complete	Aug / TBD	90 %	Aug	Aug
E. Emergency Feedwa and Diesel Gen Load Impact		Complete	Complete / Jul 21	75 %	May - Aug	бер
F. Emergeray Diesel Loading	Generator Complete	Complete	Complete /TBD	70 %	Jul - Sep	Sep
G. Fallure Modes and Analysis of Los	7,446	Aug	Aug 30 / Aug	90 %	Jul	Sep
H. Gl. 96-06 - Contain	ament Complete	Complete	Complete	65 %	Aug - Sep	Sep





A. HPI Pump Recirculation Line

- Directs Recirculation t the Reactor Building Sump
- 4 Valves (Operated from the Control Room) Will be Installed

7/22/97



Design Issues Identified in FPC Letter of 10/28/96



10

- HPI Cavitating Venturis

 Installed / Tested / Removed / Spool Pieces Installed

HPI S stem Modifications

(SB L. CA Improvement)

- HPI Crosstie Piping / Valves
  - · Evaluating
- MUV-27 Normal Make-Up Automatic Isolation
  - · Installed and Tested





**LPI Pump Mission Time** 

- Manufacturer Performed Rigorous 30 Day Test
- Increased Mission Time to One Year at Low Flow
- Restart Issue Closed by FPC



11

### Design Issues Identified in FPC Letter of 10/28/96



Reactor Building Spray Pump (BSP-1B) NPSH

- BSP-1A Impeller Modified, Installed, and Tested
- BSP-1B Impeller Modified and Installed
- Gained 3 Feet of Water NPSHa

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Emergency Feedwater System and Diesel Generator Load Impact

- Entergency Feedwater Cavitating Venturis
  - · Installed and Tested
- ASV-204 Steam Driven Emergency Feedwater Pump Steam Inlet Valve
- EFV-12 Emergency Feedwater Pumps Discharge Crosstie Valve
  - · Installed



FPC CR-3



7/22/9

### Design Issues Identified in FPC Letter of 10/28/96

**Emergency Diesel Generator** (EDG) Loading

- Upgraded Both EDG Engines
- Currently Planning Radiator Changeout
- Improved kW Meter Accuracy





7/22/9

Failure Modes and Effects Analysis (FMEA) of Loss of DC Power (SB LOCA / LOOP / DC Failure)

- 21 Systems Impacted
- Analysis Complete Including Third Party Review
- Currently Performing 120 v AC Load Study



### Design Issues Identified in FPC Letter of 10/28/96



- Thermal Relief Valves

Generic Letter 96-06 -

**Containment Penetrations** 

- 39 Planned to be Installed This Outage
- Expansion Chambers
  - · All 14 Installed

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### **Extent of Condition**



Increase Margin

- · Reduce Operator Burden
- · Defense-in-Depth

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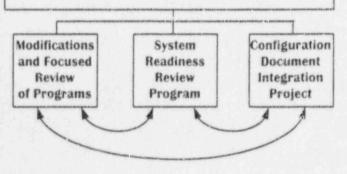
### **Extent of Condition**



7/22/97

Reasonable Assurance That CR-3 Will Operate Within Its Design and Licensing Bases

CR-3 Can Mitigate All Design Basis Accidents





### Emergency Diesel Generator Power Upgrade



7/22/97 19

- · Part of a Three-Tiered Approach
  - EDG Power Upgrade
  - -EDG Load Reduction
  - EDG Margin Verification



### Emergency Diesel Generator Power Upgrade

FP(	3
1	
1	

7/22/97

Sept '96 July '97 Old EDG Ratings **New EDG Ratings** 30 Min 30 Min 3500 kW 3500 kW 200 Hr 200 Hr 3250 kW 3400 kW 2000 Hr 2000 Hr 3200 kW 3000 kW Contin. 2850 kW Contin. 2850 kW Auto Connect Load

o Connect Load Auto Connect Load
3159 kW 3057 kW





7/22/97

### **System Readiness Review**



**System Readiness Review** 



7/22/97

**Level 1 and Level 2 Systems** 

Represent Essentially 100% of the Systems Impacting Core Damage Frequency



### **System Readiness Review Assessment Completion**

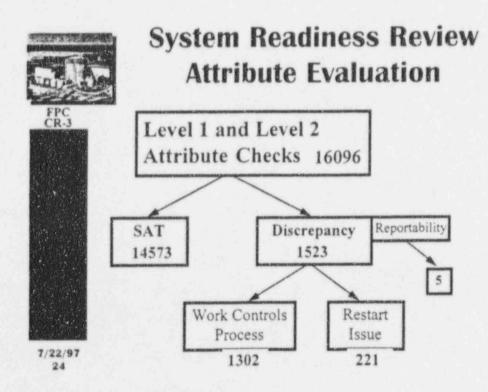
CR-3

• Level 1 Systems - 100%

• Level 2 Systems - 100%

• Level 3 Systems - 100%

7/22/91





### Configuration Document Integration Project



7/22/97

Project Input Information From

- System Readiness Review, Precursor Cards, Problem Reports, Docket Review, Independent FSAR Review, Individual Reviews, Modifications, Analyses
- Consolidate Information Into Specific Plant System Information Sets
- Resolve Open Items
- · Update the Plant Documents
  - FSAR, EDBD, ITS Bases, ABD



### **Configuration Document Integration Project Status**



 Compiled All 49 System Information Sets

- · 1320 Items in the Database
  - -320 Items Resolved
  - 1000 Items Being Worked

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### MCAP II Update



- 90 Items Complete

Ahead of Plan:

- 58 Items Remain to be Completed
- **Effectiveness Assessment Scheduled for** August

27



### **MCAP II Update**



7/22/97

- **Restart Items Progressing** 
  - 19 Restart Items Complete
  - 13 Restart Items Remain to be Completed
  - Due Dates for Two Items Revised to **August Due to Scope Expansion**





7/22/97

### Condition of CR-3 at Startup

### Metrics to Measure Performance



### Condition of CR-3 at Startup



7/22/97

### Performance Indicators

- Organizational Readiness
  - Restart Issue Closure
  - MCAP II Restart Item Closure
  - Self-Identified Precursors
  - Self-Identified Violations
- System Readiness
  - Corrective Maintenance
  - Temporary Modifications
  - Requests for Engineering Assistance
  - Restart Modifications
  - Systems Remaining to be Accepted by Operations

### Goal at Startup

0

0

60 % or Greater

67 % or Greater

200 Open Work Requests or Less

5 or Less

200 Open or Less

0

105 Systems Accepted



### Condition of CR-3 at Startup



7/22/97

### Performance Indicators

- · Operations Readiness
  - Control Board Deficiencies
  - Operator Work Arounds
  - Operating Procedures
  - Emergency Operating Procedures
  - Abnormal Procedures
- Regulatory Readiness
  - License Amendments and Tech Spec Submittals
  - Other NRC Restart Submittals
  - Total 1997 Commitments

### Goal at Startup

10 or Less 7 or Less 25 Comments or Less All EOPs Issued 15 Comments or Less

All Submittals Made All Submittals Made Complete



### Condition of CR-3 at Startup



### **Performance Indicators**

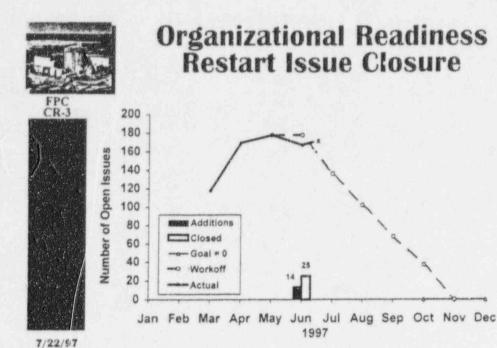
- · Communications Readiness
  - Employee Surveys
  - Community Leaders
  - State & Federal Officials/Staff
  - Opportunity to Tour Plant
  - Open Communication with Media

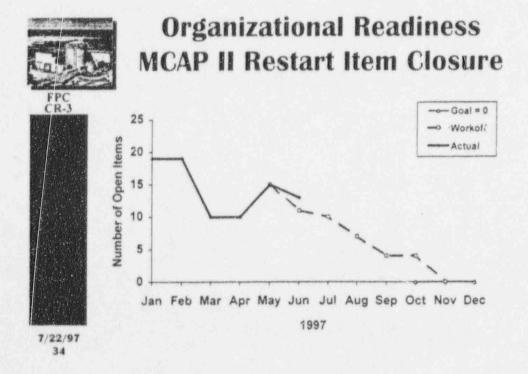
Goal at Startup

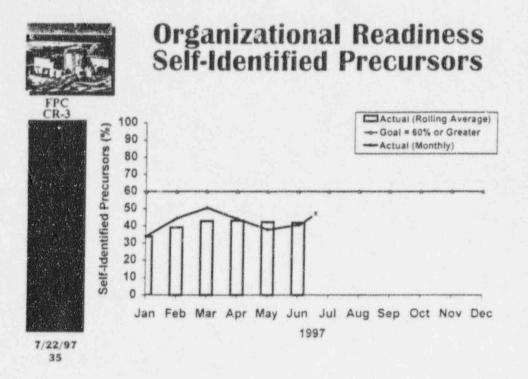
Improving Results
Meet Prior to Startup
Meet Prior to Startup
All Elected Officials and
Staff Invited to Tour
Editorial Boards,
Interviews, and Plant Tours
Conducted for Those who
Routinely Cover CR-3

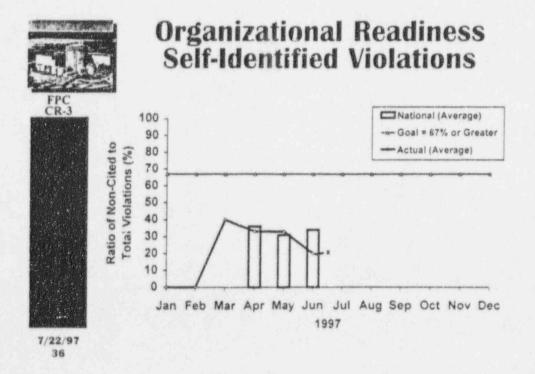


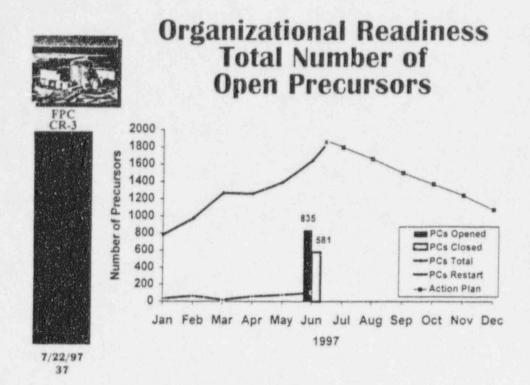
7/22/97 32

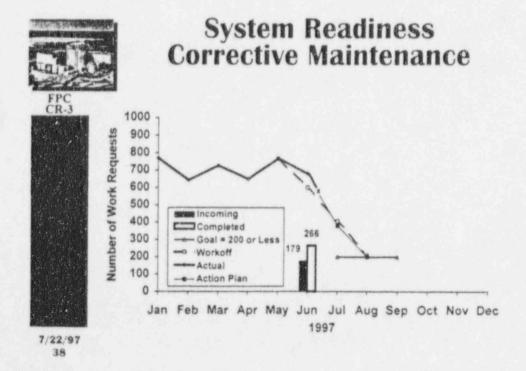


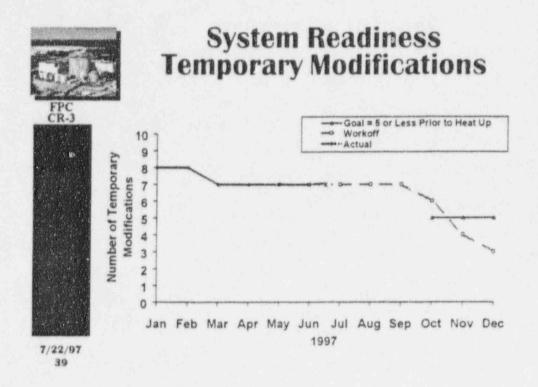


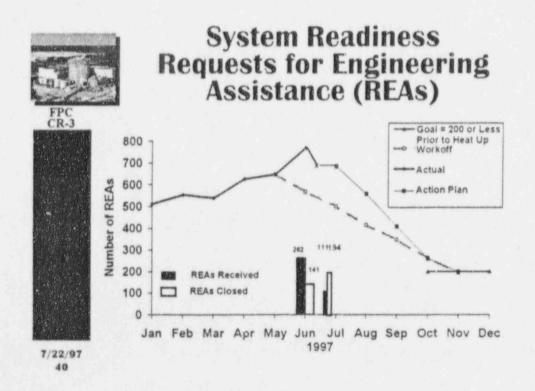


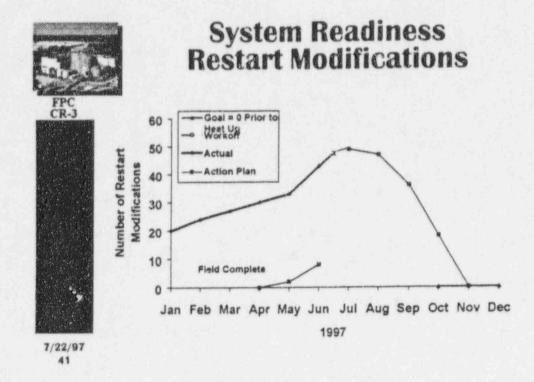


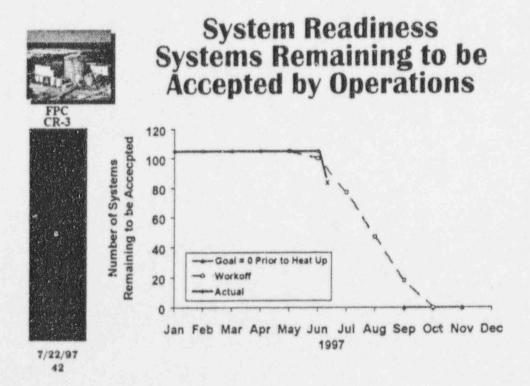


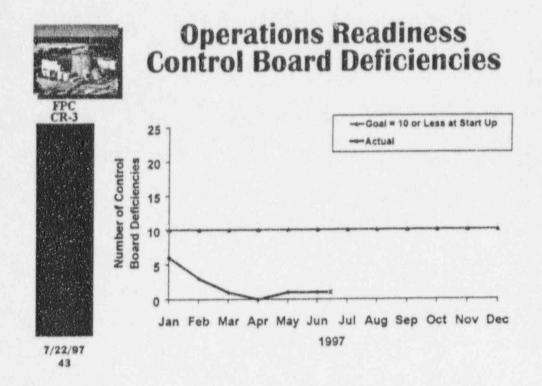


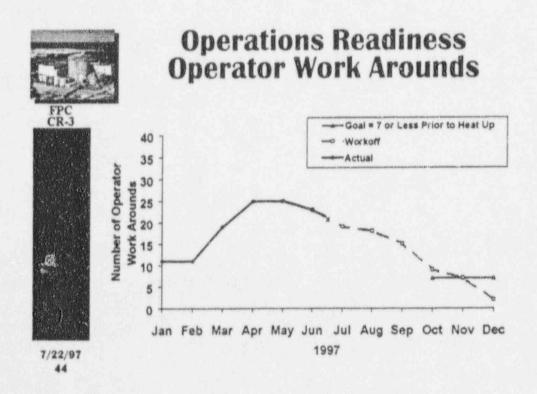


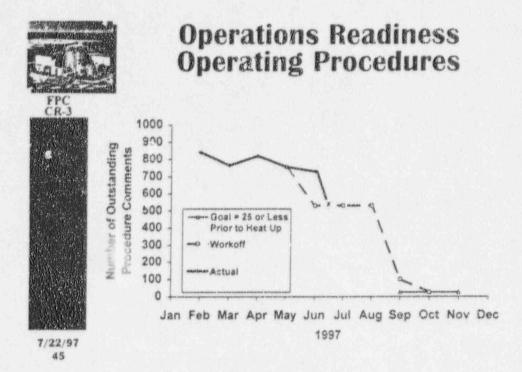


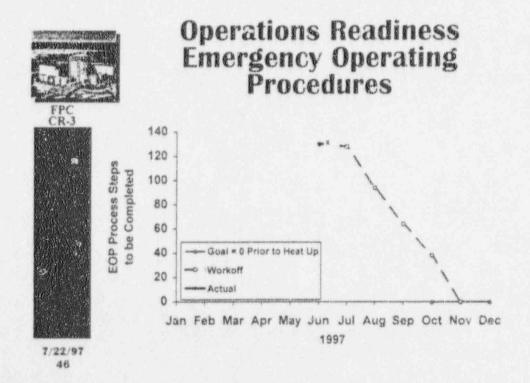


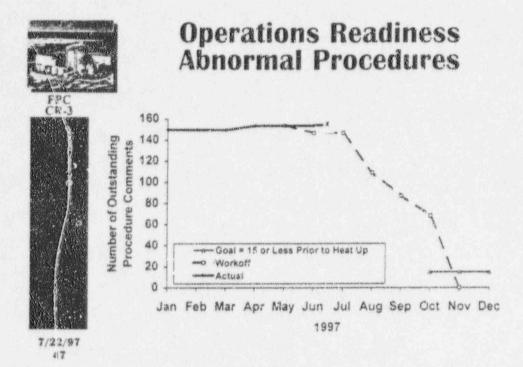


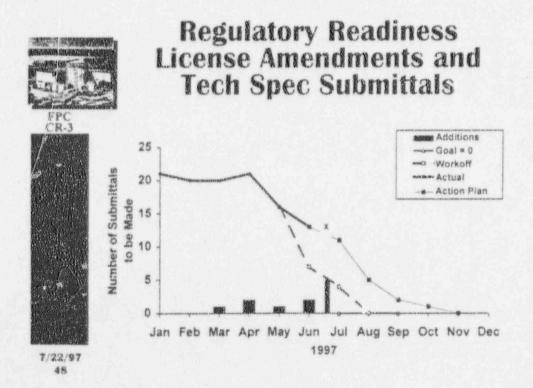


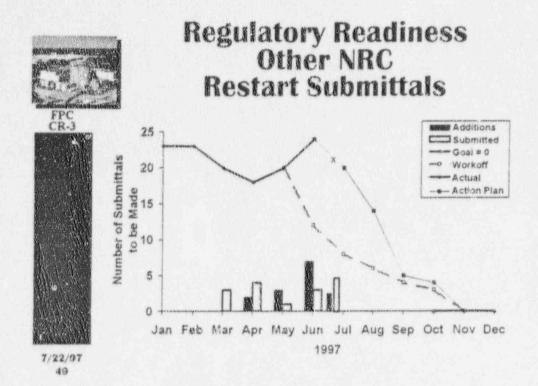


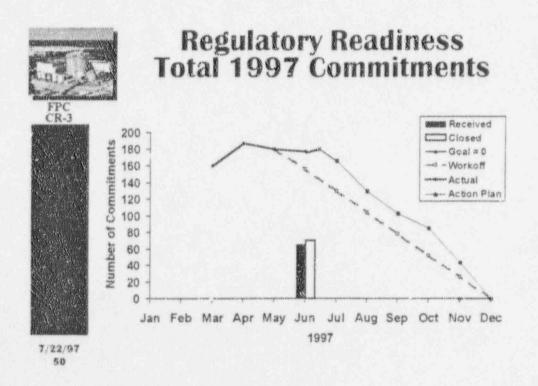


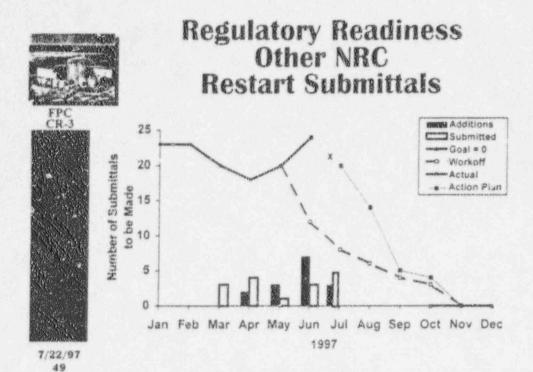


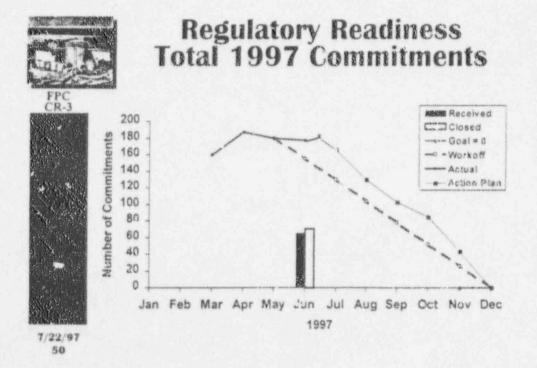












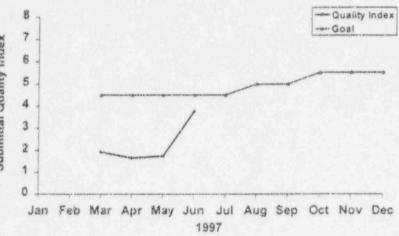


### Regulatory Readiness **Submittal Quality**



Submittal Quality Index

51





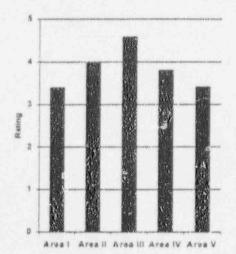
### **Communications Plan** Organizational Communications Effectiveness

## FPC CR-3

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### AREAS

- I My direct supervisor keeps me informed
- 11 I understand critica! restart issues
- III I understand safety regulations and standards
- IV I know what is expected of me and how i fit into the "big picture"
- V Support communications materials enhance my understanding of CR-3 issues





### **Communications Readiness**



7/22/97 53

- FPC Community Meeting, June 19, 1997 in Crystal River
- FPC Community Meeting Scheduled for the First Week in August at Inverness
- FPC Speaker at Meeting in Inglis / Yankeetown Being Arranged

### **Technical Issues**



- Emergency Diesel Generator Power Uprate
- Proposed Resolution to IN 92-18 (Appendix R)
- Boron Precipitation
- HPI Nozzle Non-Destructive Examination
- Unresolved Issue A-46, Seismic Qualification
- · SB LOCA USQs



### **Operations Focus Areas**



Improve Performance in

- Operations Ownership
- Plant Configuration Control

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### **Operations Focus Areas**



7/22/97

- Reduction in Watchstander Distractions
  - Move Non-Critical Functions Outside of Control Room
  - -Focus Operating Staff on
    - Striving for Flawless Execution
    - · Proactively Identifying/Driving Issues



### **Operations Focus Areas**



7/22/97

- Consistent Application of Standards
  - Control Room Formality
  - Pre-Job Brief Quality
  - Self Assessment Effectiveness



### **Operations Focus Areas**

- Staffing / Organization Structure
  - Clarity of Roles and Responsibilities
  - -Staffing Levels





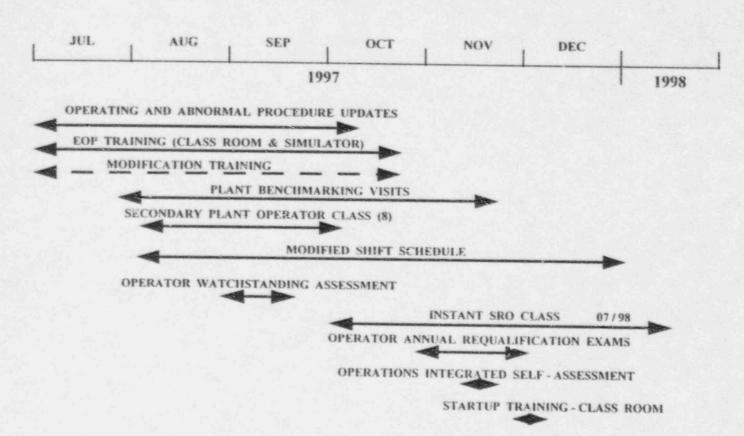
### Operations Readiness For Restart

STARTUP TRAINING - SIMULATOR

FPC CR-3



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FPC CR-3



# Concluding Statements

7/22/97

### Restart License Amendments

Issue 1. Small Break Loss of Coolant Accident (SB LOCA) Analysis	Submittal Date Complete 6/14/97
2. Decay Heat - Flow Instrument Removal	Complete 6/26/97
3. Appendix R Thermo-Lag Resolution Schedule (letter to address exemption request)	7/25/97 (N)
4. Appendix R  a. (III.O - Reactor Coolant Pump Oil Cooling) Potential Exemption withdrawal or revision - When "A" pump is in compliance	10/8/97 (N)
b. Exemption Request for Lube Oil Fill Line	(N)
5. Low Temperature - Over Pressurization (LTOPs) - Code Case N-514 exemption	Complete 4/7/97
6. LTOPs a. 15 Effective Full Power Years (EFPY) License Amendment	Complete 7/18/97
<ul><li>b. 30 EFPY License Amendment (not needed until cycle 12)</li><li>7. Letdown Rupture Line (Potential USQ)</li></ul>	(N) 9/15/97 (R)
8. Integrated Leak Rate Test, App. J Option B	Complete 2/1/97
9. Integrated Leak Rate Test, App. J Option B, Rev. 1	Complete 5/1/97
10. App. J. Option B - Additional information (LLRT Results)	8/4/97 (N)
11. System Readiness Reviews (potential License Amendment)	Resolved
12. License Condition Amendment (if needed)	Resolved
Items 13-24, Potential USQs Submittals:	
13. Emergency Diesel Generator Protective Trips during Engineered Safety Actuation and Loss of Offsite Power	8/25/97 (R)
14. HPI analysis (without cavitating venturis)	Complete 6/14/97
15. HPI Pump Recirculation	Resolved
<ol> <li>High Pressure Injection Nozzle Cycles(Contained in the FSAR R.23 7/3/97 letter and not a USQ)</li> </ol>	Resolved
17. Air Handling Filter-1/2 Testing Requirements	7/30/97 (R)
<ol> <li>Makeup Supply Valve (MUV-27) - Add automatic closure upon receipt of #1500 signal</li> </ol>	Complete 6/14/97
19. EDG Fan Upgrade	8/25/97 (N)

<ul> <li>20. Atmospheric Dump Valve (ADV) design capacity</li> <li>21. Operator Actions for EOPs and APs</li> <li>22. Remote Shutdown Panel Added Components</li> <li>23. RW Cyclone Separator Fouling</li> </ul>	8/25/97 (N) 9/30/97 (R) 8/25/97 (N) Resolved
24. MUV-31 Control Logic	Resolved
25. Once Through Steam Generator (OTSG) License Amendment 211, Rev. 1	Complete 3/27/97
a. OTSG, License Amendment 211, Resubmit Sholly Notice	Complete 5/1/97 (N)
<ul> <li>b. OTSG Response to Additional Information Request from NRC (add language to address plugging criteria for identified IGA growth)</li> </ul>	8/18/97 (N)
<ol> <li>Post-Accident Monitoring (PAM) Table Revision, TSCRN 209, Reg. Guide 1.97</li> <li>Issue (EDG kW Meters)</li> </ol>	7/25/97
27. ECCS Mode 4 Tech Spec Change	9/1/97 (N)
28. Control Complex Habitability Envelope Surveillance Tech Spec (submit prior to Restart)	11/24/97
29. 500 kV Backfeed Tech Spec Change (not needed before restart)	Resolved (N)
Licensing Restart Submittal (Non-License Amendments)	
Boron Precipitation Letter (May result in a license amendment)	9/2/97
Appendix R Issues:     a. Independent Assessment Summary	Complete 7/3/97
b. Appendix R - Revise response to address 72 hr. cold shutdown (NRC RAI 7/7/97)	9/1/97 (N)
c. Appendix R - Thermo-Lag ampacity (NRC RAI)	Complete 7/3/97 (N)
d. Appendix R - NRC Information Notice 92-18 (Hot Shorts)	8/8/97 (N)
e. Appendix R - Submit description of issues related to Restart Issue D-11 to support NRC plans for close out (NRC 7/7/97 RAI)	9/25/97 (N)
3. System Readiness Review - Summary Report	11/5/97
4. Generic Letter 96-01 - Summary Report	8/22/97 (R)

5. FSAR Revision 23 - USQ Review	Complete 7/3/97
6. Generic Letter 96-06 - Semmary Report	11/15/97(R
7. Tendon Surveillance Report (If needed)	9/15/97
8. Maintenance Rule Structural Baseline - Walkdown Summary Report	9/30/97 (R)
9. Integrated Safety Assessment of Current Outage Modifications - Summary Report	10/27/97
10. FSAR Rev. 24 submittal	12/4/97
11. Restart Request Letter	12/1/97
12. RCS Attached Piping - Respond to NRC 4/7/97 Letter	Complete 6/17/97
13. Loss of DC Power, Failure Modes Effect Analysis - Summary Report	8/30/97 (R)
14. FSAR Rev. 24/25 Upgrade Program Description	Complete 7/17/97 (N)
15. 50.54(f) Letter to address discrepancies (If needed)	8/19/97 (N)
16. Review of Implementation of License Conditions	Complete 5/20/97
17. Submittals to support SB LOCA TSCRN 210:	3/20/91
a. Letter to confirm calculations (EDG Loading, Block Valve Cycling)	9/15/97 (N)
b. Submit draft EOPs 3 and 8, AP 770	8/4/97 (N)
c. Letter to confirm EOPs do not result in additional USQ's	9/15/97 (N)
d. Submit proprietary and non-proprietary version of LB LOCA analysis of record	8/29/97 (N)
18. Licensing Basis for Dynamic Loads:	
a. Initial Response (pipe whip) to NRC 4/10/97 letter	Complete 6/5/97 (N)
b. Supplemental Response (re Jet impingement)to NRC 4/10/97 Letter	9/26/97 (N) Complete
19. Low Pressure Injection - Mission Time	5/15/97 Complete
20. Appendix R - Atmospheric Dump Valve 30 day Response	4/30/97 Complete
21. System Readiness Review Plan	3/27/97

22. EOP / AP Operator Action - Commitment Date Change	Complete 3/25/97
23. GL 96-C6, Letter regarding Service Water fittings	Complete 4/30/97
24. ASME a. tion XI - Code Case Relief Request - N509	Complete 3/24/97
25. MCAP II, Rev. 2	Complete 4/25/97
26. ITS Bases Submittal	Complete 4/18/97
27. Letter on Pressure Locking re. EFV-12, 32, 33 (Supports SER for GL 95-07)	8/11/97 (N)
28. Resolution of A-46 SQUG walkdown issues (NRC RAI 5/27/97)	7/21/97 (N)
29. Temporary Waiver of Compliance for CCHE Modifications (FSAR Requirements)	9/2/97 (N)

- (N) New
- (R) Revised submittal doc.7-14