

June 26, 1997

Florida Power Corporation
Crystal River Energy Complex
Mr. Roy A. Anderson (SA2A)
Sr. VP, Nuclear Operations
ATTN: Mgr., Nuclear Licensing
15760 West Power Line Street
Crystal River, FL 34428-6708

SUBJECT: MEETING SUMMARY: CRYSTAL RIVER 3 RESTART PANEL
CRYSTAL RIVER 3 - DOCKET NO. 50-302

Dear Mr. Anderson:

This refers to the Restart Panel meeting conducted at the Crystal River facility on June 19, 1997. The purpose of the meeting was to discuss the items included on the NRC Manual Chapter 0350 restart matrix and the FPC restart list. A list of attendees and a copy of your handout is enclosed.

In accordance with Section 2.790 of the NRC's "Rule of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosure will be placed in the NRC Public Document Room.

Should you have any questions concerning this letter, please contact me at (404) 562-4600.

Sincerely,

Orig signed by Harold Christensen

Johns P. Jaudon, Director
Division of Reactor Safety

Docket No. 50-302
License Nos. DPR-72

Enclosures: 1. List of Attendees
2. FPC Handout

cc w/encls:
John P. Cowan, Vice President
Nuclear Production (NA2E)
FPC, Crystal River Energy Complex
15760 West Power Line Street
Crystal River, FL 34428-6708

cc w/encls: See page 2

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9707240176 970626
PDR ADOCK 05000302
P PDR

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cc w/encls: Continued
B. J. Hickle, Director
Nuclear Plant Operations (NA2C)
FPC, Crystal River Energy Complex
15760 West Power Line Street
Crystal River, FL 34428-6708

Robert E. Grazio, Director
Nuclear Regulatory Affairs (SA2A)
FPC, Crystal River Energy Complex
15760 West Power Line Street
Crystal River, FL 34428-6708

James S. Baumstark, Director
Quality Programs (SA2C)
FPC, Crystal River Energy Complex
15760 West Power Line Street
Crystal River, FL 34428-6708

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

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, FL 32304

Bill Passetti
Office of Radiation Control
Department of Health and
Rehabilitative Services
1317 Winewood Boulevard
Tallahassee, FL 32399-0700

Joe Myers, Director
Division of Emergency Preparedness
Department of Community Affairs
2740 Centerview Drive
Tallahassee, FL 32399-2100

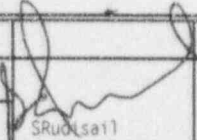
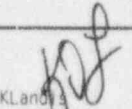
Chairman
Board of County Commissioners
Citrus County
110 N. Apopka Avenue
Inverness, FL 34450-4245

Robert B. Borsum
Framatome Technologies
1700 Rockville Pike, Suite 525
Rockville, MD 20852-1631

Distribution w/enc's:

L. Raghavan, NRR
B. Crowley, RII
G. Hopper, RII
PUBLIC

NRC Resident Inspector
U.S. Nuclear Regulatory Commission
6745 N. Tallahassee Road
Crystal River, FL 34428

OFFICE						
SIGNATURE						
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DOCUMENT NAME: G:\CRYSTAL\MEETING\RESTART.619

LIST OF ATTENDEES

Florida Power Corporation

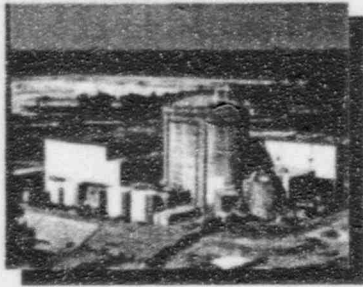
J. Baumstark, Director, Quality Programs
J. Cowan, Vice President, Nuclear Production
R. Grazio, Director, Regulatory Affairs
G. Hanlon, Assistant Plant Director
B. Hickle, Director, Restart
J. Holder, Engineering Director
D. Kunsemiller, Manager, Nuclear Licensing
M. Marano, Director, Site and Business Restart
J. Maseda, Manager, Engineering Programs,
C. Pardee, Director, Nuclear Plant Operations
F. Sullivan, Manager, Nuclear Operations Engineering
J. Terry, Manager, Nuclear Plant Technical Support
T. Taylor, Director, Nuclear Training
E. Vilade, Communications

Nuclear Regulatory Commission

S. Cahill, Senior Resident Inspector, Crystal River
K. Clark, Senior Public Affairs, Region II
C. Christensen, Engineering Branch Chief, Division Reactor Safety
M. Dapas, Executive Director for Operations Regional Coordinator
F. Hebdon, Director II-3, Office Of Nuclear Reactor Regulations (NRR)
J. Jaudon, Director, DRS
C. Julian, Technical Assistant, DRS
K. Landis, Chief, Branch 3, Division of Reactor Projects
L. Plisco, Chief, Oversight Branch, NRR
L. Raghavan, Project Manager, Project Directorate II-3, NRR

Media Representatives and Other Interested Parties

R. Colthorpe, General Manager, NUS Information Services Inc.
I. James, Reporter, St. Petersburg Times
R. Russell, Research Assistant, Florida Public Service Commission
D. Sells, Consultant, Florida Municipal Power Agency
M. Schmid, Producer/Reporter, Florida Public Television
A. Struck, Public
J. Struck, Public
J. Tunstall, Reporter, Tampa Tribune



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FLORIDA POWER CORPORATION

CRYSTAL RIVER - UNIT 3

FPC RESTART

PROGRESS

June 19, 1997

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Enclosure 2



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FLORIDA POWER CORPORATION
CRYSTAL RIVER - UNIT 3

FPC RESTART PROGRESS

June 19, 1997



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AGENDA



- Opening Remarks J. P. Jaudon / J. P. Cowan
- Restart Status J. P. Cowan
- Condition of CR-3 at Startup /
Metrics to Measure Performance B. J. Hickle
- Operations Focus Areas C. G. Pardee
- Engineering Progress J. J. Holden
- Configuration Document
Integration Program G. H. Halnon
- Employee Concerns Program J. S. Baumstark
- MCAP II Progress J. S. Baumstark
- Concluding Statements J. P. Cowan / J. P. Jaudon

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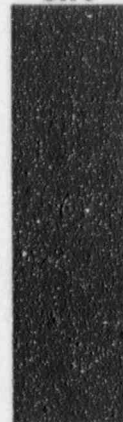
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Current Status

- **Electrical**
 - 230 kV Line is Operable
 - 500 kV Line is Available
 - A and B Diesel Generators Operable
- **Primary System**
 - Filled with Nitrogen in Pressurizer
 - Nozzle Dams for Steam Generator Installed
 - Steam Generator Open for Inspection
 - Decay Heat Removal Trains A and B Operable



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CR - 3 Readiness Program Objectives

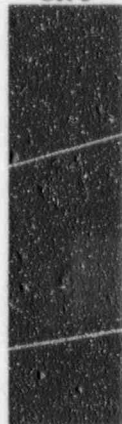
1. Frequent Open Communications
2. Resolution of Confirmatory Action Letter Issues
3. Close Book on First 20 Years of Operation
4. Invest for the Next 20 years of Operation
5. Integrate Startup Activities Into Long Term Improvement Plan

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

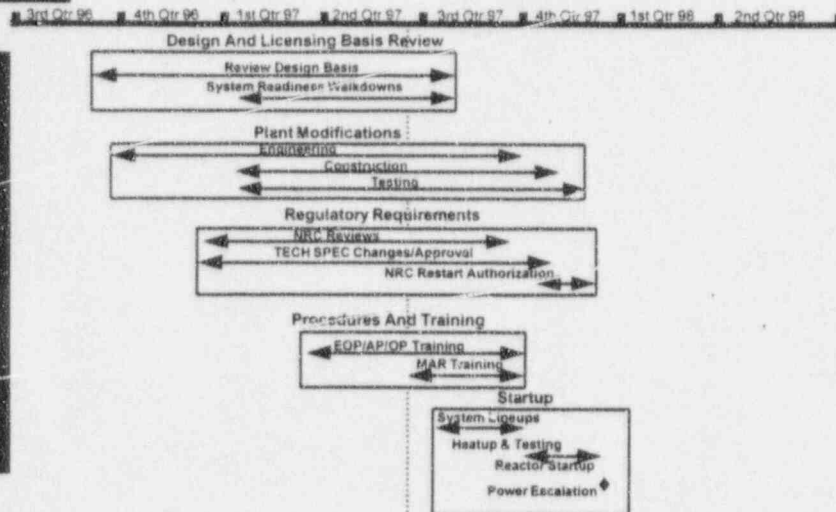


Restart Schedule

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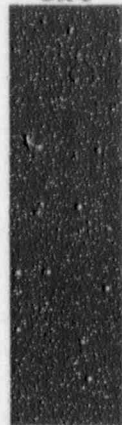


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Confirmatory Action Letter

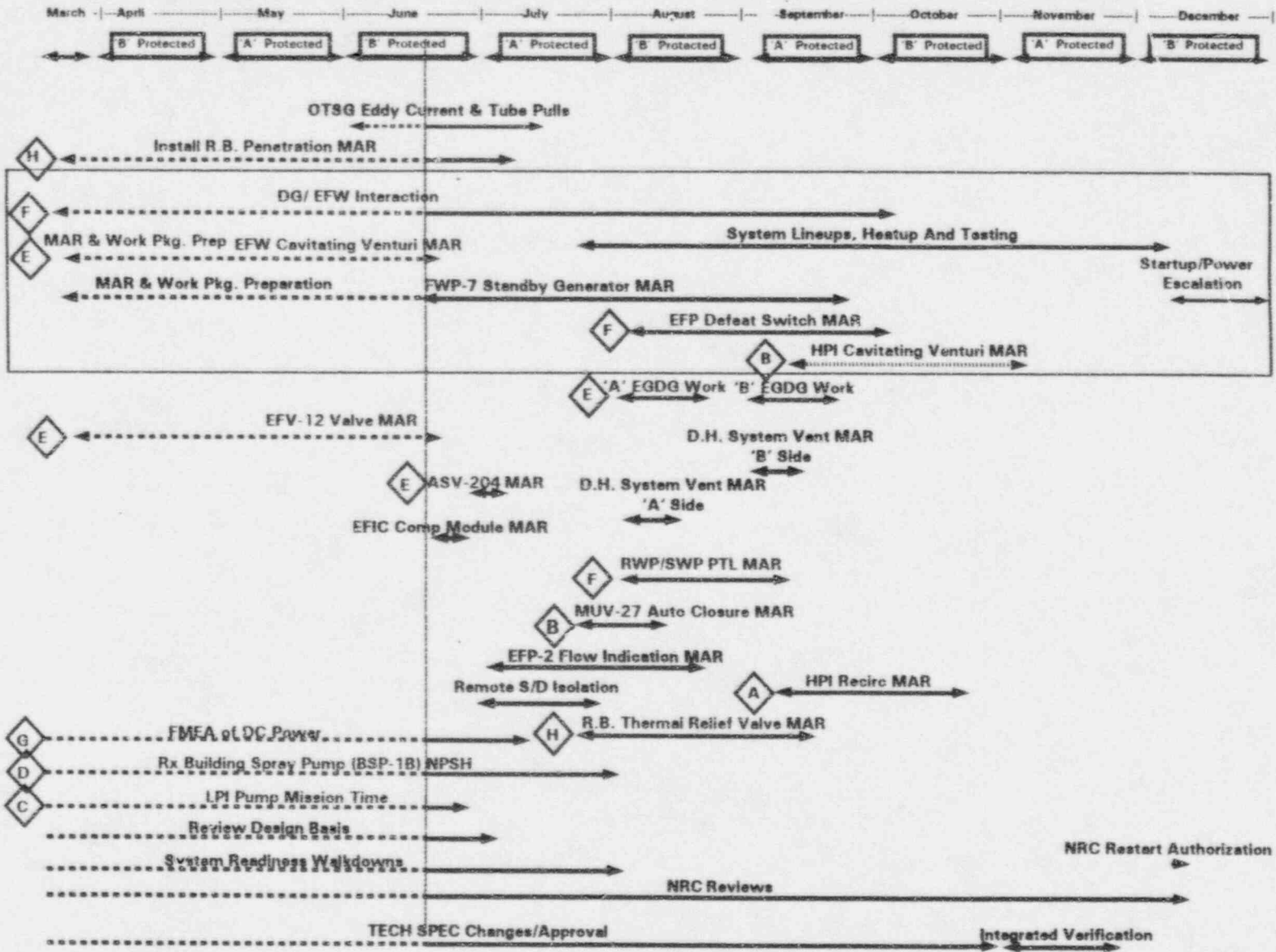
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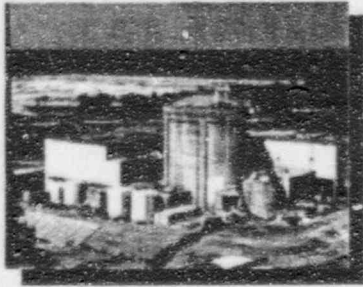


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- 1 . Design Issues Identified in FPC Letter of 10/28/96
- 2 . Extent of Condition Reviews
- 3 . Resolution of Safety and Licensing Issues
- 4 . MCAP II Progress
- 5 . Regional Administrator Concurrence for Mode 2

Crystal River Unit #3 Restart





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

Design Issue Description	NRC Briefings		NRC Submittal &	Modification		Operations
	Tech Staff	Restart Panel	Follow-up Briefing	Work	Testing	Acceptance
A. HPI Pump Recirculation Line	May 8	May 9	Jun 30 / Jul	10 %	Oct	Nov
B. HPI System Modifications	May 8	May 9	Complete / Jun 24	40 %	Jul - Nov	Nov
C. LPI Pump Mission Time	May 8	May 9	Complete	95 %	Complete	Sep
D. Reactor Building Spray Pump - NPSH	May 8	May 9	TBD	70 %	Aug	Sep
E. Emergency Feedwater System and Diesel Generator Load Impact	Mar 18	Mar 21	Complete / Jul	60 %	May - Sep	Nov
F. Emergency Diesel Generator Loading	Mar 18 & May 8	Mar 21 & May 9	Sep 15	60 %	Jul - Sep	Oct
G. Failure Modes and Effects Analysis of Loss of DC Power	Jul	Jul	Jul 30 / Aug	90 %	Jul	Sep
H. GL 96-06 - Containment Penetrations	May 8	May 9	Jul 10	60 %	Jul	Oct

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Communications Readiness

- **FPC Community Meeting
Tonight at 6:30 PM in Armory**
- **Employee Survey Results**

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Condition of CR-3 at Startup

Metrics to Measure Performance

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Condition of CR-3 at Startup

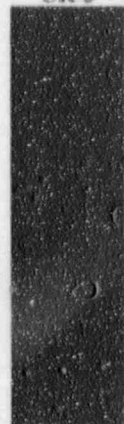
Performance Indicators

Goal at Startup

- **Organizational Readiness**
 - Restart Issue Closure 0
 - MCAP II Restart Item Closure 0
 - Self-Identified Precursors No less than 60 %
 - Self-Identified Violations No less than 67 %
- **System Readiness**
 - Corrective Maintenance No more than 200 Open Work Requests
 - Temporary Modifications No more than 5
 - Requests for Engineering Assistance No more than 200 Open
 - Restart Modifications 0
 - Systems Accepted by Operations All 105 Systems Accepted



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Condition of CR-3 at Startup

Performance Indicators

Goal at Startup

- **Operations Readiness**
 - Control Board Deficiencies No more than 10
 - Operator Work Arouns No more than 7
 - Operating Procedures Comments No more than 25
 - Emergency Operating Procedures All EOPs Issued
 - Abnormal Procedures No more than 15 Comments
- **Regulatory Readiness**
 - License Amendments and Tech Spec Submittals All Submittals Made
 - Other NRC Restart Submittals All Submittals Made
 - Total 1997 Commitments Complete by December 31



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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

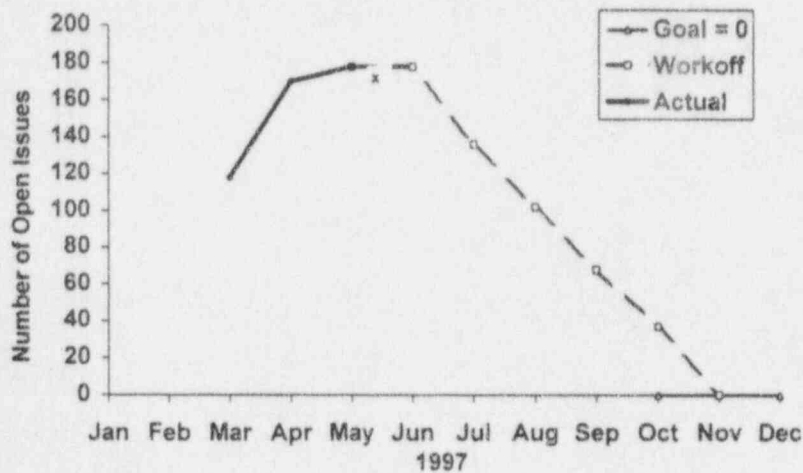


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Organizational Readiness Restart Issue Closure



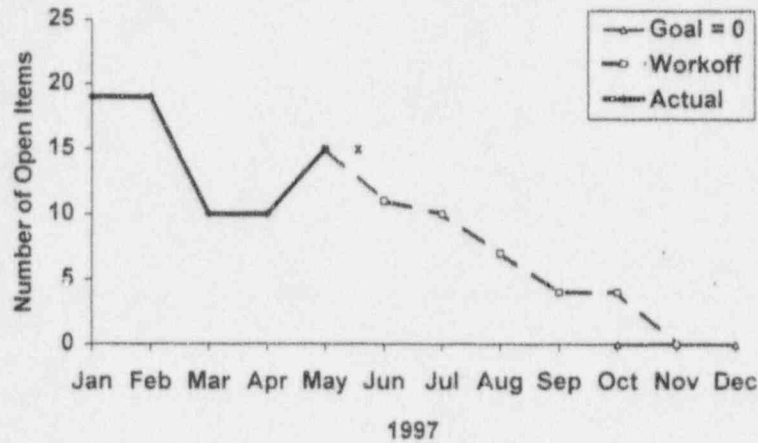


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Organizational Readiness MCAP II Restart Item Closure

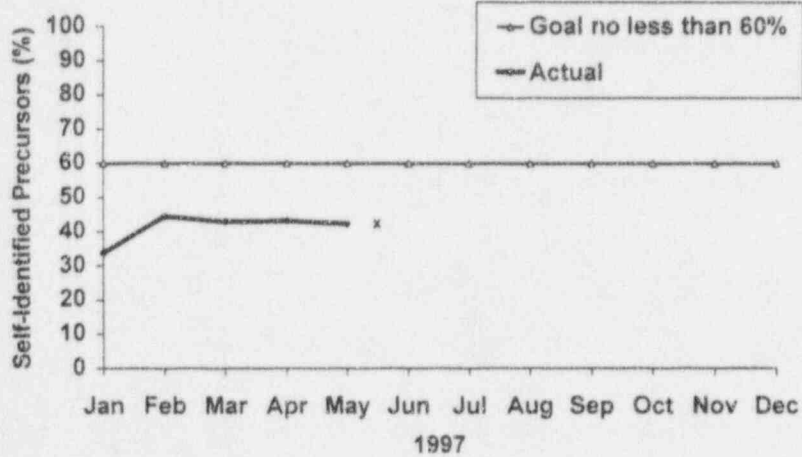


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Organizational Readiness Self-Identified Precursors



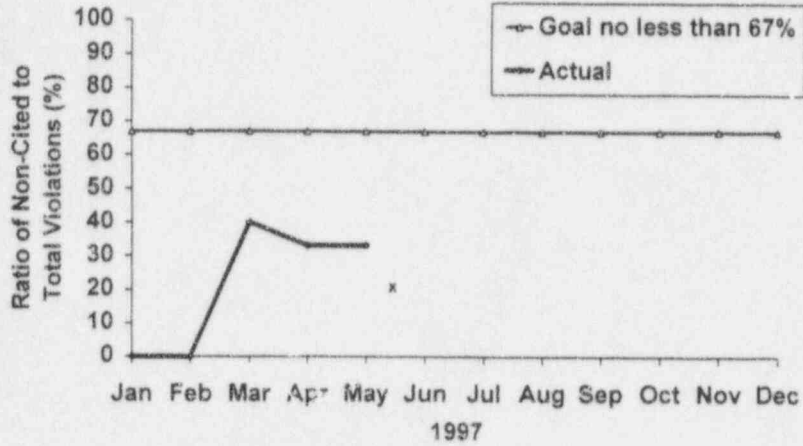


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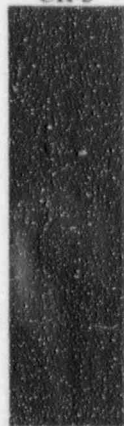


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Organizational Readiness Self-Identified Violations

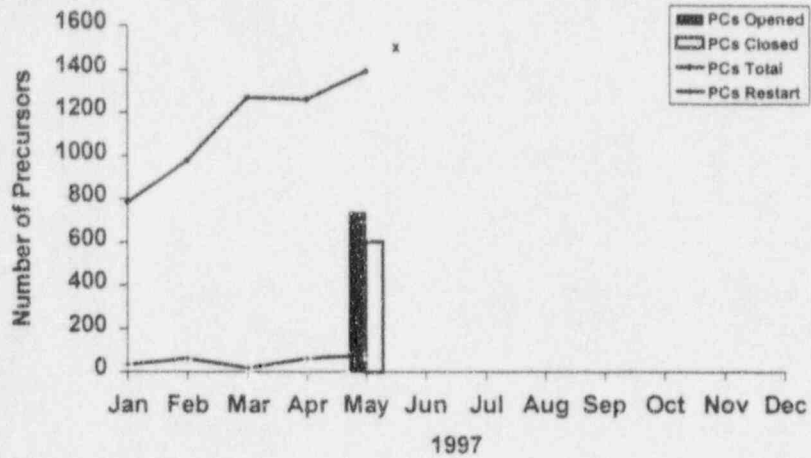


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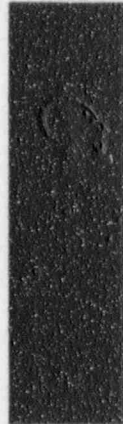
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Organizational Readiness Total Number of Open Precursors





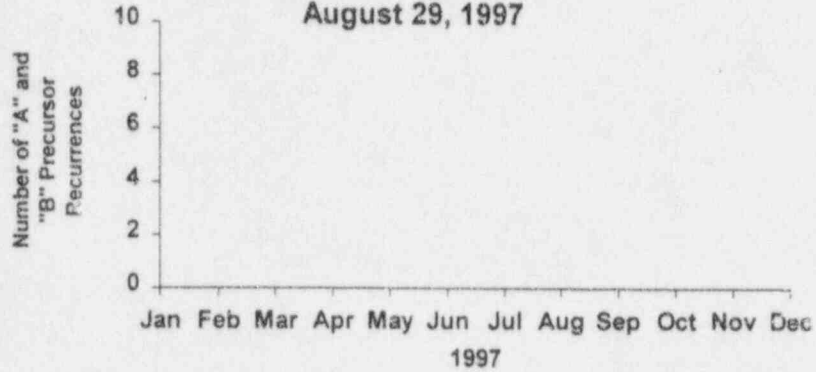
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Organizational Readiness "A" and "B" Precursor Recurrence

Performance Indicator
to be established by
August 29, 1997

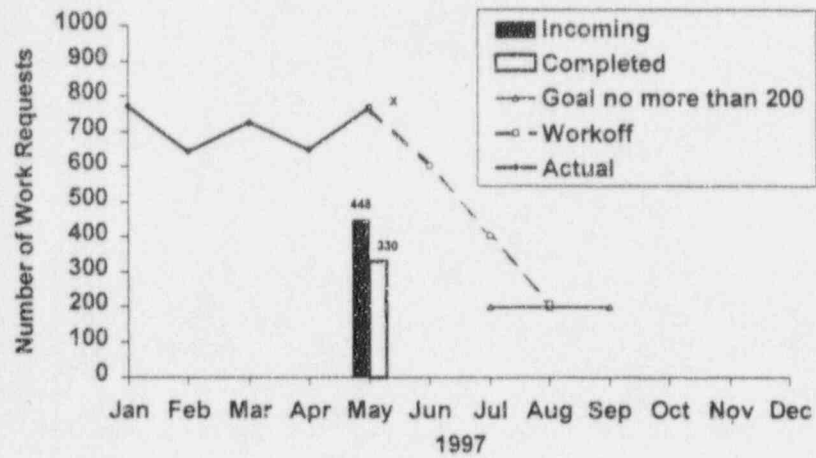


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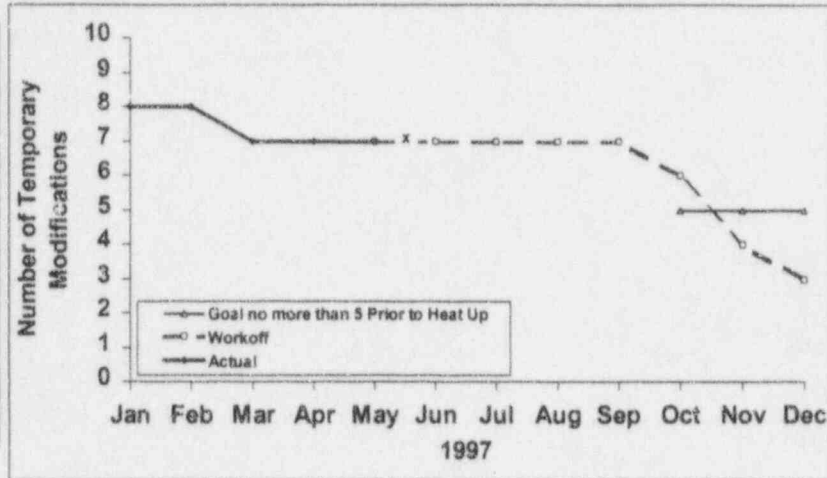
System Readiness Corrective Maintenance





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System Readiness Temporary Modifications

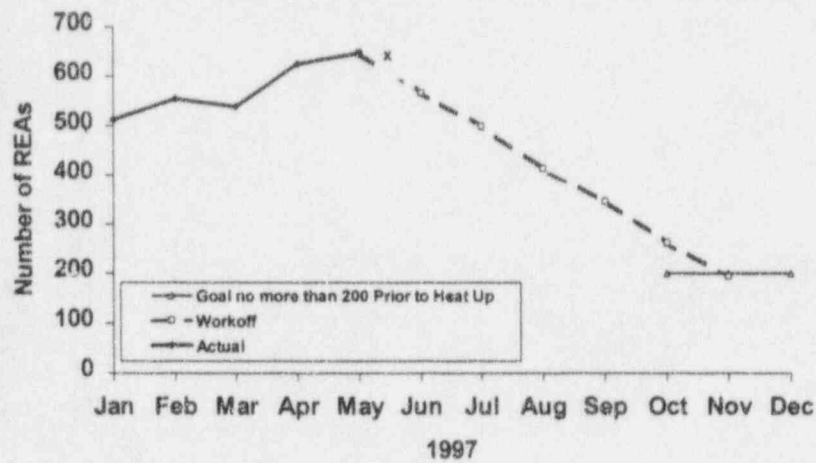


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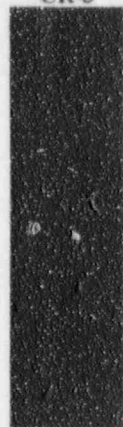
System Readiness Requests for Engineering Assistance (REAs)



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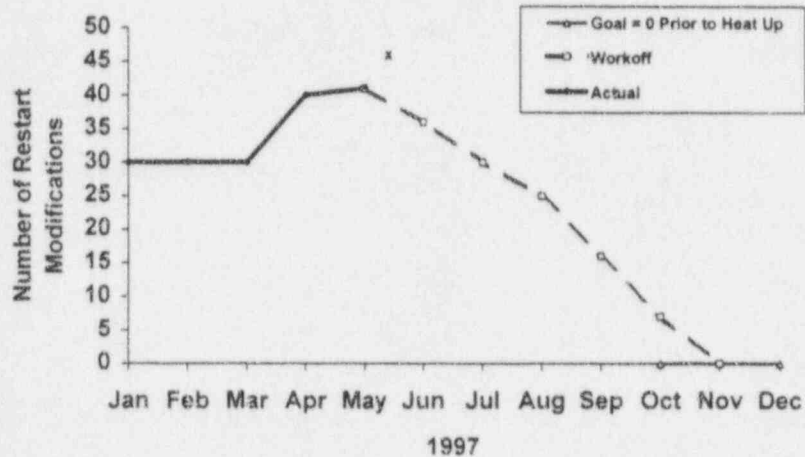


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System Readiness Restart Modifications

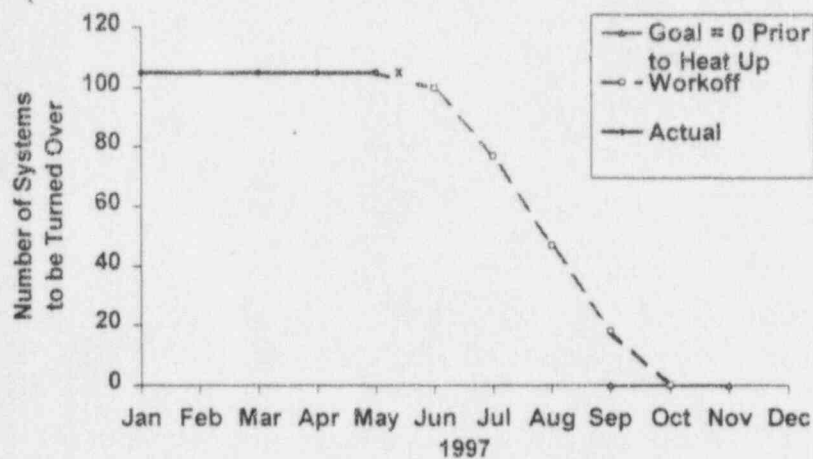


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System Readiness Systems Remaining to be Accepted by Operations



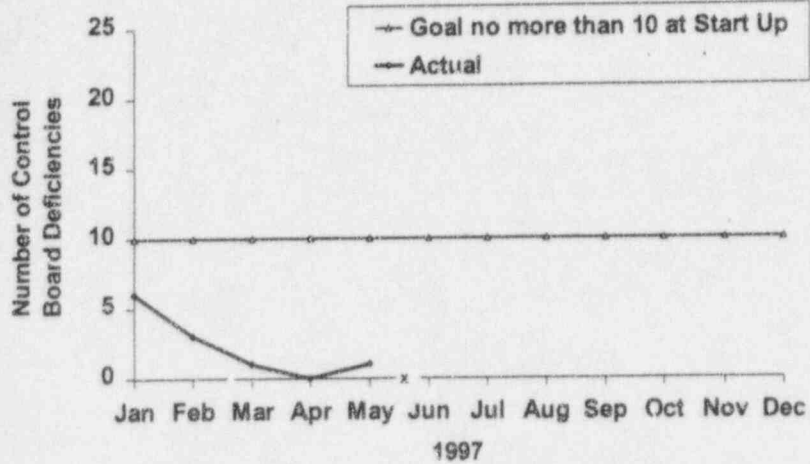


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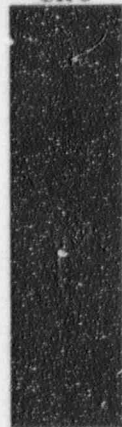


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Operations Readiness Control Board Deficiencies

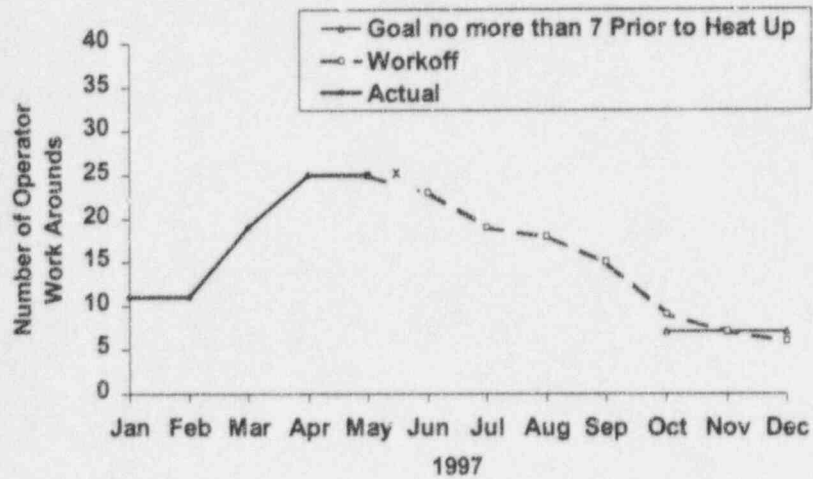


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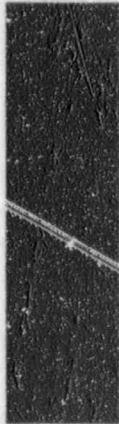
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Operations Readiness Operator Work Arounds



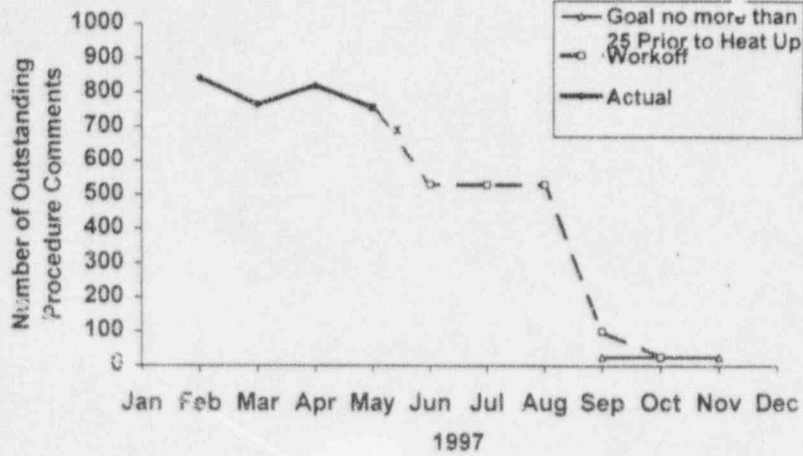


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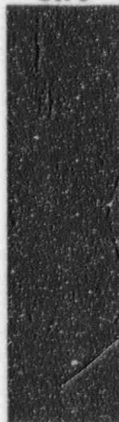


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Operations Readiness Operating Procedures

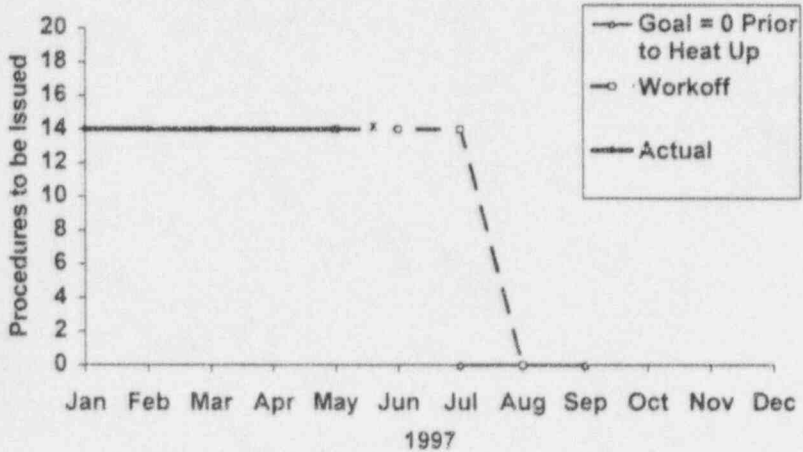


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Operations Readiness Emergency Operating Procedures



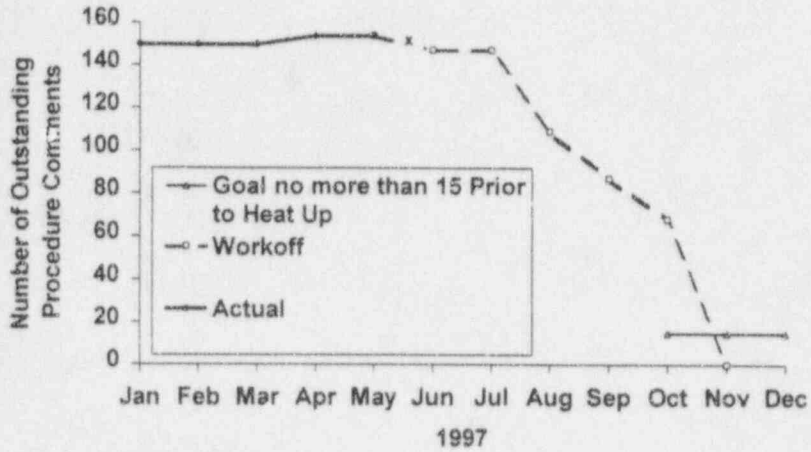


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Operations Readiness Abnormal Procedures



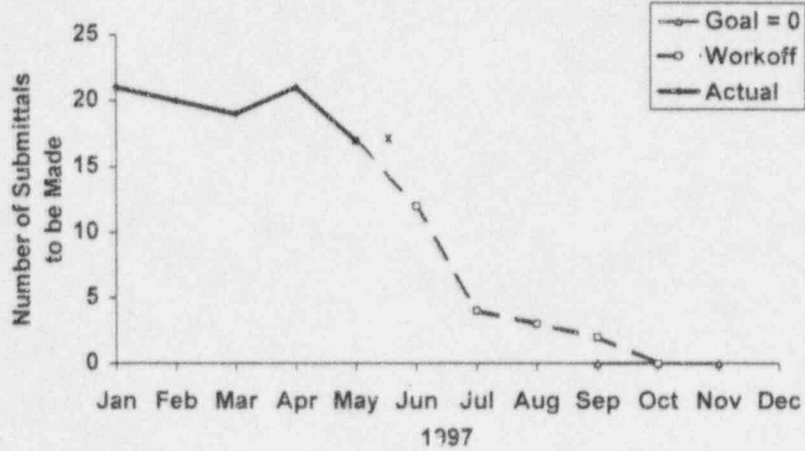
Regulatory Readiness License Amendments and Tech Spec Submittals



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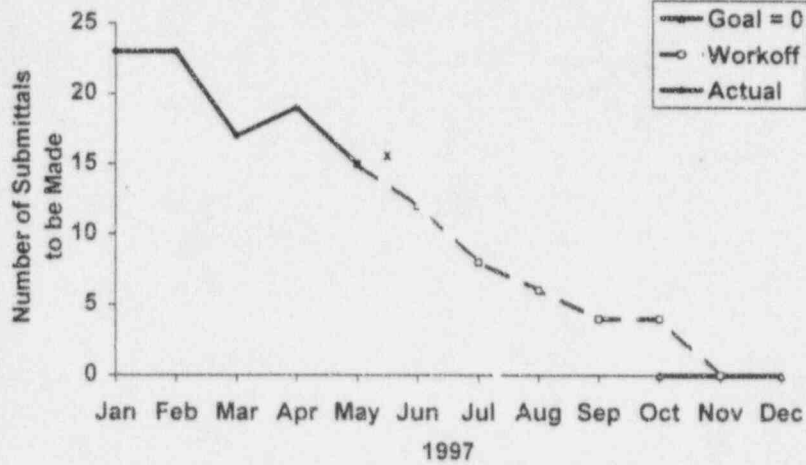


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Regulatory Readiness Other NRC Restart Submittals

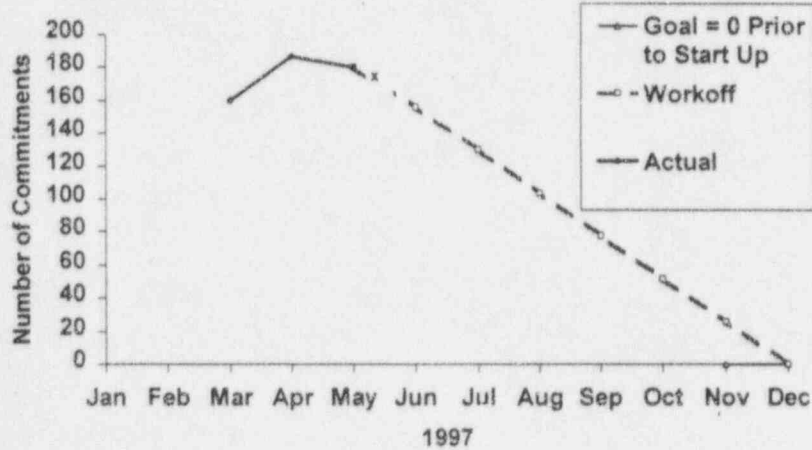


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Regulatory Readiness Total 1997 Commitments





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Regulatory Readiness Submittal Quality

- **Point-Based System**
 - **Organization and Clarity**
 - **Technical Content**
 - **Timeliness**
 - **Need for Supplement**

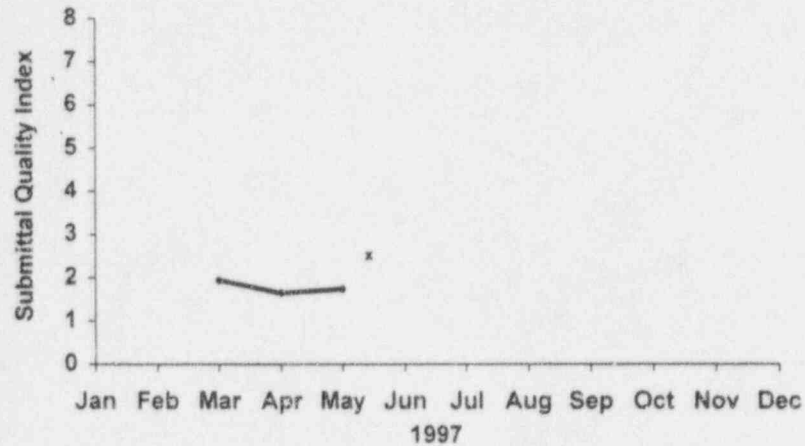


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Regulatory Readiness Submittal Quality





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Standard LER Timeline

ID	Name	Duration	7/23	7/30	8/6	8/13	8/20	8/27	9/3	9/10
1	EVENT (DISCOVERY)	0d								
2	ASSIGN RESPONSIBLE DIRECTOR	0d								
3	ASSIGN RESPONSIBLE LEAD	0d								
4	DRAFT LER	7.2d								
5	OBTAIN INFORMATION FROM PC AND APPARENT/ROOT CAUSE	3.6d								
6	WRITE FIRST DRAFT OF THE LER	7.2d								
7	REVIEW OF FIRST DRAFT	1.6d								
8	FINALIZE LER (RED FOLDER)	1.6d								
9	REVIEW FINAL LER	3.2d								
10	SYSTEM ENGINEER	0.8d								
11	NRC MANAGER	0.8d								
12	PRC CHAIRMAN/PRC REVIEW	0.8d								
13	DEPARTMENT MANAGER	0.8d								
14	RETURN TO LER ORIGINATOR FOR FINAL REVISIONS	0.8d								
15	RESPONSIBLE DIRECTOR FOR FINAL APPROVAL/SIGNATURE	2.4d								
16	MAIL LER TO NRC	0.8d								

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Standard NOV Timeline

ID	Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20
1	PRIOR TO NOV RECEIPT									
2	POTENTIAL VIOLATION IDENTIFIED									
3	ASSIGN RESPONSIBLE DIRECTOR									
4	ASSIGN RESPONSIBLE LEAD									
5	INITIATE PRECURSOR CARD									
6	CONDUCT ROOT CAUSE EVALUATION									
7	CARD REVIEW OF RCE									
8	CONCUR WITH POTENTIAL VIOLATION? YES/NO									
9	ASSEMBLE PRELIMINARY RESPONSE AND VALIDATION									
10	AFTER NOV RECEIPT									
11	RECEIVE NOTICE OF VIOLATION									
12	ANALYZE NOV - EVALUATE PRELIMINARY RESPONSE									
13	UPDATE DRAFT NOV RESPONSE AND VALIDATION									
14	MANAGEMENT REVIEW OF DRAFT RESPONSE									
15	INCORPORATE COMMENTS									
16	FINALIZE RED FOLDER									
17	VP REVIEW									
18	INCORPORATE COMMENTS									
19	VP FINAL REVIEW AND SIGNATURE									
20	MAIL LETTER TO NRC									

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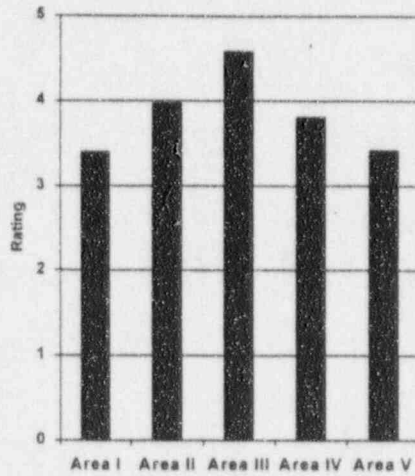
Communications Plan Organizational Communications Effectiveness



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AREAS

- I - My direct supervisor keeps me informed
- II - I understand critical 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



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Operations Focus Areas



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- **Improve Performance in**
 - **Operations Ownership**
 - **Plant Configuration Control**



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Operations Focus Areas

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



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Operations Focus Areas

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



Operations Focus Areas

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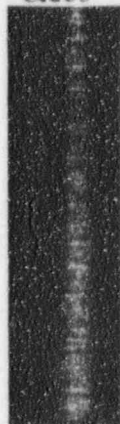
- **Staffing / Organization Structure**
 - **Clarity of Roles and Responsibilities**
 - **Staffing Levels**

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Engineering Progress

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

B. HPI SB LOCA Improvement Mods

- HPI Cavitating Venturis
 - Installed / Tested / Removed / Spool Pieces Re-installed
- HPI Crosstie Piping / Valves
 - 4 Additional Valves Installed-Locked Closed
- Normal Make-Up Automatic Isolation
 - Modification Currently Being Performed

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

F. Emergency Diesel Generator Loading

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

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Appendix "R" Issues



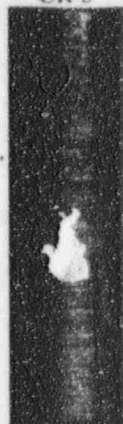
- **Reactor Coolant Pump Oil Collection**
- **Independent Assessment of Fire Study**
- **Remote Shutdown Capability**
- **Information Notice 92-18 Evaluation**
- **Atmospheric Dump Valves**

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Appendix "R" Issues



- **Control Room Evacuation Procedure**
- **Source Range Nuclear Instrumentation Detectors**
- **Thermo-Lag**
 - **Implementation Plan Schedule**
 - **Exemption Requests**

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Restart Issue Modifications

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- **Total Modifications - 43**
- **Design Issued - 19**
- **Ready For Field - 16**

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System Readiness Review Assessment Completion

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- **Level 1 Systems - 100%**
- **Level 2 Systems - 67%**
- **Level 3 Systems - 19%**

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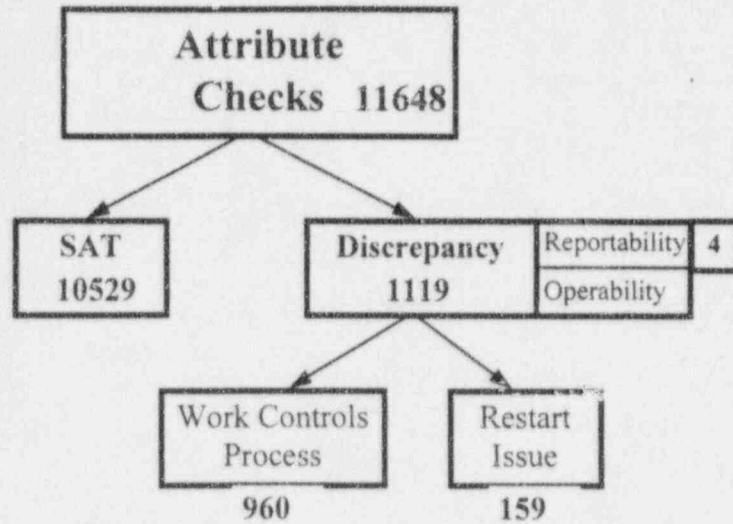


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System Readiness Review Attribute Evaluation



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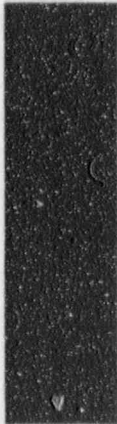
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Configuration Document Integration Project

- **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



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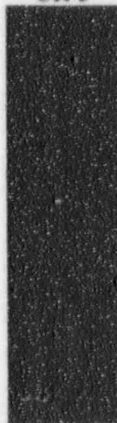
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Configuration Document Integration Project Status

- **Scope of FSAR Revision 24**
- **Revision 24 Will Be Technically Accurate**
 - **Restart Issues Will be Incorporated**
 - **Freeze Date for Non-Restart Issues is August 18, 1997**
 - **Chapter 14 Accident Analyses Being Reviewed to Ensure Properly Reflected**
 - **Design Basis Documents, ITS Bases, and Procedures Will Reflect the Same Changes**



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Configuration Document Integration Project Status

- **Currently Compiled 21 of 49 System Information Sets**
- **Currently 1500 Open Items in the Database**
 - **37 Items Currently Resolved**
 - **142 Items Currently Being Worked**
 - **Remainder of Items Will be Addressed**



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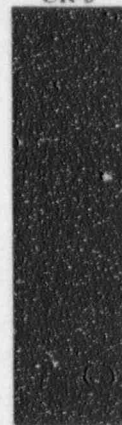
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Configuration Document Integration Project Status

- **16 of 49 FSAR Sections are Currently Being Revised**
- **Integrated Configuration Management Institutionalized in Nuclear Operations Department Procedure**
 - Carry Concepts Forward to Facilitate Change Processes



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Employee Concerns Program

- **Established by Nuclear Operations Department Procedure (NOD-36) in May 1991**
- **Program Statistics**

<u>Year</u>	<u>Input</u>
94 (outage)	110
95	14
96 (outage)	63
97 (to date)	13

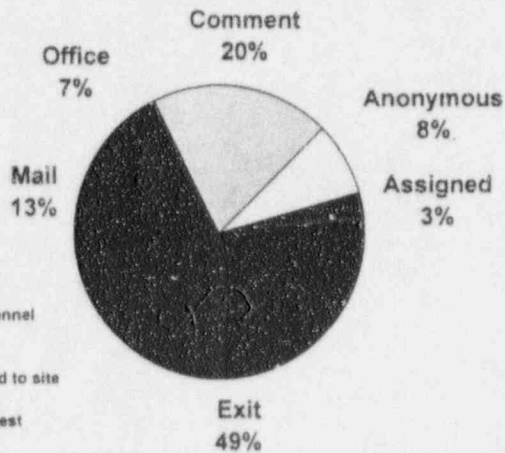


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Employee Concerns Program 1996/1997 Totals by Receipt Method



Mail - written by station personnel
 Office - interview with ECP Representative
 Comment - Suggestion related to site or company process
 Assigned - Management request

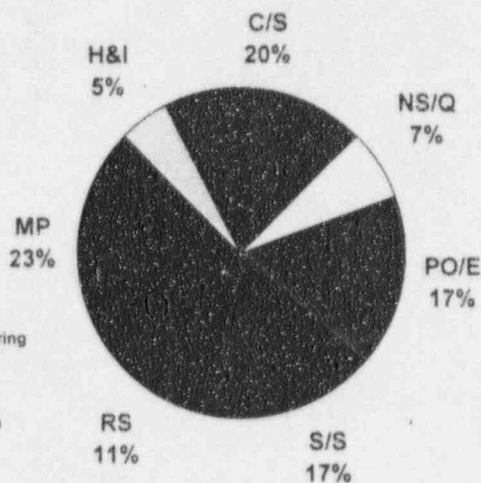


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Employee Concerns Program 1996/1997 Totals by Category



NS/Q - Nuclear Safety / Quality
 PO/E - Plant Operations / Engineering
 S/S - Industrial Safety / Security
 RS - Radiological Safety
 MP - Management and Personnel
 H&I - Harassment and Intimidation
 C/S - Comment / Suggestion



Employee Concerns Program Assessments

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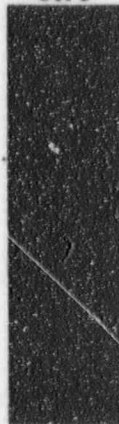
- **June 1996** **NRC**
- **August 1996** **Third Party**
- **August 1996** **NRC**
- **June - July 1997** **Third Party**

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Employee Concerns Program Assessment Conclusions

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- **Program is Effective Based on:**
 - **Types of Concerns Submitted**
 - **Employee Willingness to Use Management and Our Corrective Action Process**

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Employee Concerns Program Initiatives

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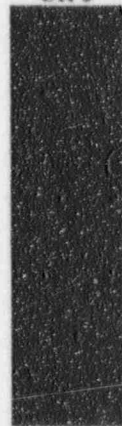
- **Third Party Assessment in June - July 1997**
 - Evaluate Program Design and Implementation With Industry Best Practices
 - Determine Program Visibility and Credibility

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MCAP II Progress

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- **Rescrub For Restart Complete - 7 Additional Items Identified**
- **Status Update Provided Weekly**
- **On Track With Revision 2**
- **Effectiveness Assessment in August**

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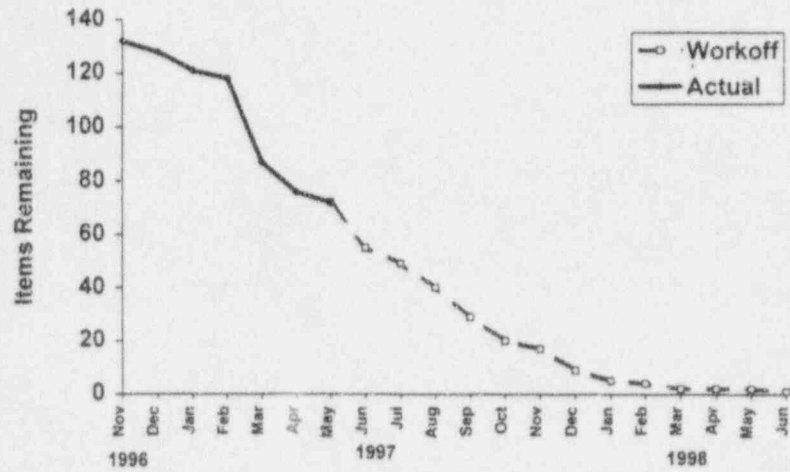


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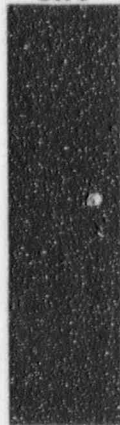


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MCAP II Progress



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Concluding Statements

NRC RESTART LICENSING SUBMITTALS

Restart License Amendments

<u>Issue</u>	<u>Submittal Date</u>
1. Small Break LOCA Analysis	Complete
2. Decay Heat - Flow Instrument Removal	7/11/97
3. Appendix R Thermolag Resolution Schedule (address exemption request)	7/25/97
4. Appendix R (III.O - Reactor Coolant Pump Oil Cooling) Potential Exemption Withdrawal/Revision - When "A" pump is in compliance	10/8/97
5. System Readiness Review - Potential License Amendment if needed	6/23/97
6. Low Temp Over Pressurization (LTOPs) - Code Case N-514 exemption	Complete
7. LTOPs - 15 Effective Full Power Years (EFPY) License Amendment	7/16/97
8. Emergency Operating Procedures (EOP) - Operator Actions License Amendment (If required)	7/14/97
9. EOP Letdown Rupture Line (Manual Action- Potential USQ)	7/14/97
10. Integrated Leak Rate Test, App. J Option B	Complete
11. Integrated Leak Rate Test, App. J Option B, Rev. 1	Complete
12. RWP Cyclone Separator Fouling (Potential USQ)	6/23/97
13. Control Complex Habitability Envelope Technical Specification Change	7/28/97
Items 14-20, Potential USQ's Submittals	
14. High Pressure Injection Pump Recirc	6/30/97
15. MUV-31(Pressurizer Level Control Valve) Control Logic	6/30/97
16. Emergency Diesel Generator Protective Trips during Engineered Safety Actuation and Loss of Offsite Power	Complete
17. High Pressure Injection Analysis (without cavitation venturis)	Complete
18. High Pressure Injection Nozzle Cycles(Contained in the FSAR R.23 letter)	7/7/97
19. Air Handling Filter-1/2	6/30/97
20. Makeup Supply Valve (MUV-27) - Add automatic closure upon receipt of #1500 signal	Complete

21. Once Through Steam Generator (OTSG) License Amendment 211	Complete
22. OTSG, License Amendment 211, Resubmit Sholly Notice	Complete
23 .OTSG Response to Additional Information Request from NRC	8/1/97
24 500kV Backfeed Revise Bases 3.8.1 & 3.8.2	9/1/97
25. License Amendment to revise Table 3.3.18-1 for functions/instruments	9/27/97
26. Reg. Guide 1.97 Issue (EDG kW Meters)	7/15/97

Licensing Restart Submittal (Non-License Amendments)

1. Boron Precipitation Letter (If needed)	9/2/97
2. Appendix R Issues - Independent Assessment Summary	8/4/97
2a. Appendix R - Revise response to address 72 hr. cold shutdown	9/1/97
3. System Readiness Review - Summary Report	11/5/97
4. Generic Letter 96-01 - Summary Report	7/21/97
5. FSAR Revision 23 - USQ Review	7/7/97
6 Generic Letter 96-06 - Summary Report	7/10/97
7. Tendon Surveillance Report (If needed)	9/15/97
8. Maintenance Rule Structural Baseline - Walkdown Summary Report	7/15/97
9. Integrated Safety Assessment of Current Outage Modifications - Summary Report	10.27/97
10. FSAR Rev. 24 upgrade program description	12/4/97
11. Restart Request Letter	12/1/97
12. RCS Attached Piping - Respond to NRC 4/7/97 Letter	Complete
13. Supplemental response on jet impingement, Re: FPC Letter 6/5/97 on Dynamic Load analysis	9/28/97
14. Loss of DC Power, Failure Modes Effect Analysis - Summary Report	7/30/97

15. FSAR Rev. 24/25 Upgrade Program Description	7/28/97
16. 50.54(f) Letter to address discrepancies (If needed)	8/19/97
17. HPI Nozzle Cycles Fatigue Analysis - change in Licensing Basis	Under Review
18. Review of Implementation of License Conditions	Complete
19. Licensing Basis for Dynamic Loads - Response to NRC 4/10/97 letter	Complete
20. Low Pressure Injection - Mission Time	Complete
21. Appendix R - Atmospheric Dump Valve 30 day Response	Complete
22. System Readiness Review Plan	Complete
23. EOP/AP Operator Action - Commitment Date Change	Complete
24. GL 96-06, Letter regarding Service Water fittings	Complete
25. ASME Section XI - Code Case Relief Request	Complete
26. MCAP-II, Rev. 2	Complete
27. ITS Bases Submittal	Complete