

December 9, 1996

Florida Power Corporation  
Crystal River Energy Complex  
Mr. P. M. Beard, Jr. (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. Beard:

This refers to the Restart Panel meeting conducted at the Crystal River facility on December 3, 1996. 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) 331-5509.

Sincerely,

Orig signed by Kerry D. Landis

Kerry D. Landis, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

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

Enclosures: 1. List of Attendees  
2. FPC Handout

cc w/encls: Gary L. Boldt, Vice President  
Nuclear Production (SA2C)  
Florida Power Corporation  
Crystal River Energy Complex  
15760 West Power Line Street  
Crystal River, FL 34428-6708

cc w/encls: Continued see page 2

9612180157 961209  
PDR ADOCK 05000302  
P PDR

OFFICIAL COPY

1145

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

L. C. Kelley, Director (SA2A)  
Nuclear Operations Site Support  
Florida Power Corporation  
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

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

Bill Passeti  
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  
B&W Nuclear Technologies  
1700 Rockville Pike, Suite 525  
Rockville, MD 20852-1631

FPC

3

Distribution w/encls:

L. Raghavan, NRR

B. Crowley, RII

G. Hallstrom, RII

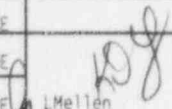
PUBLIC

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

6745 N. Tallahassee Road

Crystal River, FL 34428

OFFICE						
SIGNATURE						
NAME	J. Mellen					
DATE	12 / 09 / 96	12 / / 96	12 / / 96	12 / / 96	12 / / 96	12 / / 96
COPY?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

OFFICIAL RECORD COPY

DOCUMENT NAME: G:\CRYSTAL\MEETING\CRSTART.C96

## LIST OF ATTENDEES

### Florida Power Corporation

P. Beard, Senior Vice President, Nuclear Operations  
G. Boldt, Vice President, Nuclear Production  
J. Campbell, Assistant Plant Director, Maintenance/Rad Protection  
N. Cole, Nuclear Generation Review Committee  
R. Davis, Assistant Plant Director, Operations and Chemistry  
A. Glenn, FPC Corporate Counsel  
B. Gutherman, Manager, Nuclear Licensing  
M. Hendrix, Senior Public Relations Specialist  
B. Hickie, Director, Nuclear Plant Operations  
L. Kelly, Director, Nuclear Operations Site Support  
D. Kunsemiller, Consultant  
J. Lind, Manager Operations Training  
J. MacKinnon, Nuclear Generation Review Group, Chairman  
J. Mason, Consultant  
T. Parlier, Consultant  
F. Sullivan, Manager, Nuclear Operations Engineering  
J. Baumstark, Director, Quality Programs  
J. Terry, Manager, Nuclear Plant Technical Support  
D. Wilder, Manager, Nuclear Safety Assurance Team

### Nuclear Regulatory Commission

S. Cahill, Resident Inspector, Watts Bar  
T. Cooper, Resident Inspector, Crystal River  
F. Hebdon, Director II-3, Office Of Nuclear Reactor Regulations (NRR)  
J. Jaudon, Deputy Director, Division Reactor Safety  
C. Casto, Chief, Engineering Branch, Division Reactor Safety  
K. Landis, Chief, Branch 3, Division of Reactor Projects  
L. Raghaven, Project Manager, Project Directorate II-1, NRR

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

RESTART PANEL

Approved: \_\_\_\_\_

*P. M. Beard* 12/3/96

P. M. Beard, Senior Vice President,  
Nuclear Operations

Enclosure 2

## RESTART PANEL CHARTER

On September 2, 1996, Crystal River Unit 3 (CR3) was shutdown by a crack in the main turbine lube oil piping internal to the main lube oil reservoir. The outage was extended in October to address technical design issues resulting from limited design margins in key emergency cooling and AC power systems. In order to assure comprehensive tracking and closure of all the action items necessary to safely return CR3 to power operation and to assure reliable, continuous operation to Refuel 11, a Florida Power Corporation (FPC) Restart Panel will be formed and chartered as follows.

### 1. Composition

Restart Panel and Accountability Team membership will be as shown in the attached organization chart and as listed below:

#### Restart Panel

Chairman, Vice President Nuclear Production - G. Boldt  
Vice Chairman, Director Quality Programs - J. Baumstark  
Member, Director Nuclear Plant Operations - B. Hickie  
Member, Director Nuclear Operations Training - R. Widell  
Independent Member, Chairman, Nuclear General Review Committee - J. MacKinnon

#### Restart Accountability Team

Regulatory issues leader - B. Gutherman  
Operations issues leader - R. Davis  
Maintenance/materiel condition issues leaders - J. Campbell, J. Terry  
Design/extent of condition issues leader - F. Sullivan  
Organizational and programmatic issues leader - D. Wilder  
Schedule coordination leader - H. Koon

### 2. Expectations

Using NRC Inspection Manual Chapter 0350, and considering the documents listed in the Restart Review List, the Restart Panel will evaluate the issues against the Selection/Screening Criteria and a list of FPC restart issues will be developed. Revisions to the charter and panel composition will be approved by the Senior Vice President, Nuclear Operations. Revisions to the issues list will be approved by the Restart Panel chairman.

Restart Panel and Accountability Team members will assist in development of restart actions for their respective areas and assure a complete and auditable documentation file is assembled to facilitate closure of each action item assigned. The Restart Accountability Team members will provide frequent updates of the status of each restart action item for the Restart Panel. Immediate notification of potential emergent restart restraints will be made to the Restart Panel chairman.

The FPC Restart Panel will be the primary interface between the company and the NRC's Restart Panel. Prior to NRC review, the Restart Panel will assure each action item file is audited by FPC's Quality Programs Department and the results are presented to and approved by the Restart Panel members. Following satisfactory closure of the final restart action item, the Restart Panel chairman

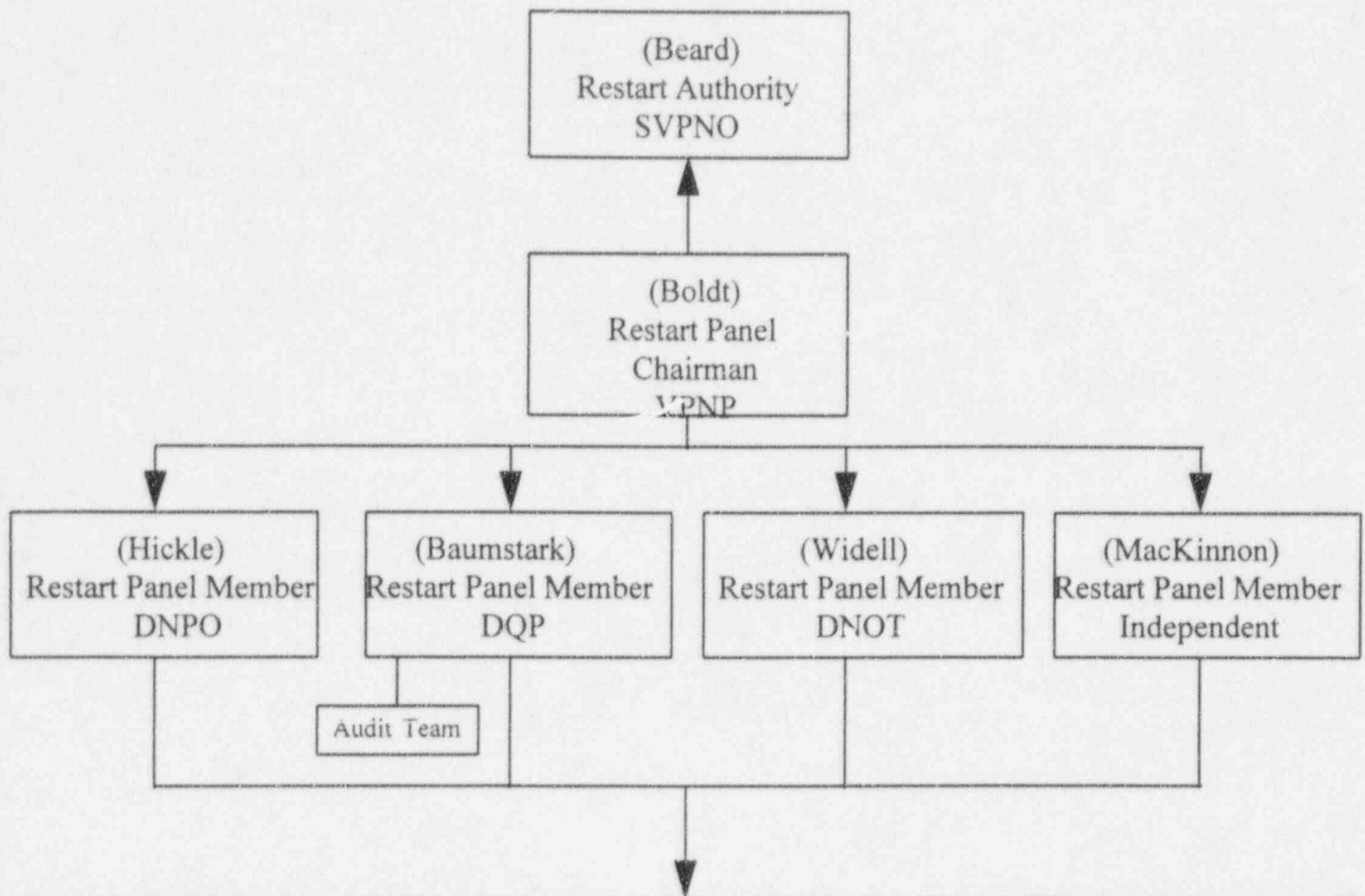
will recommend release for restart of the unit to the Senior Vice President,  
Nuclear Operations.

RESTART ISSUES  
SELECTION/SCREENING CRITERIA

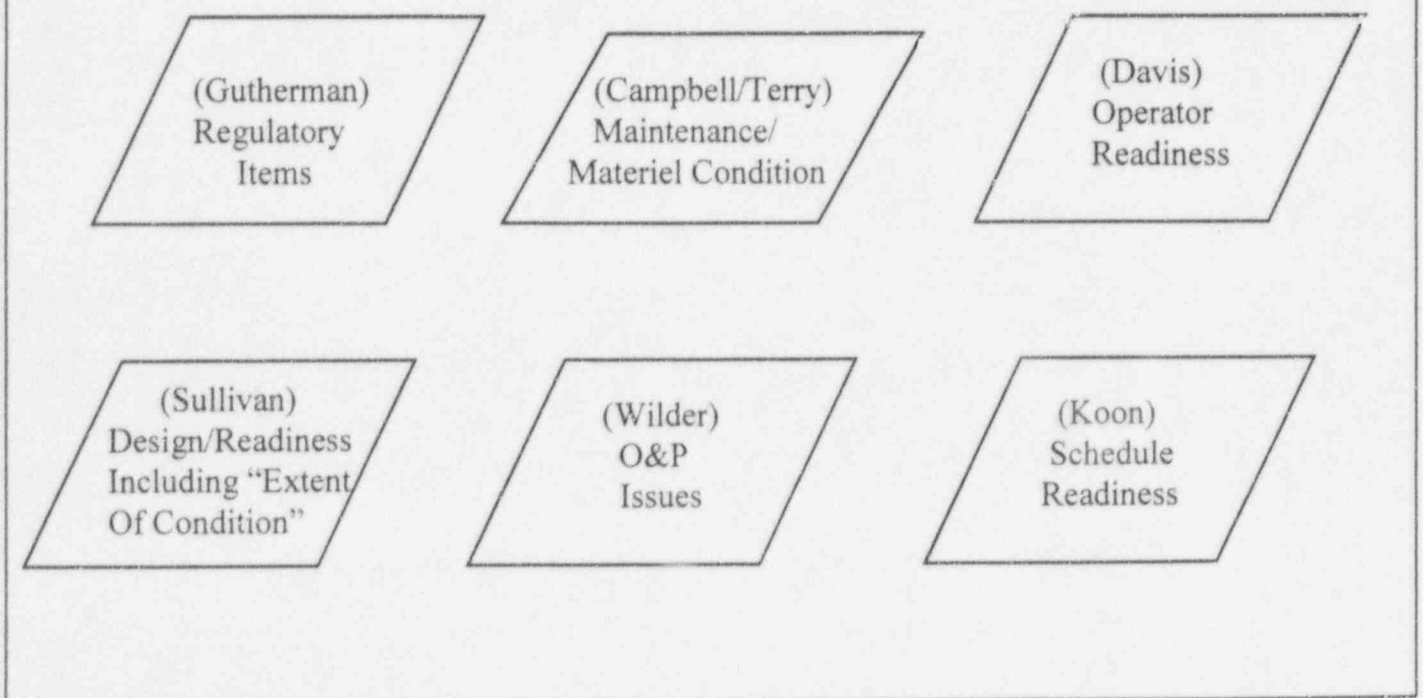
1. Required to directly address the purpose for outage extension (design margin improvement of selected safety systems).
2. Required to determine the "extent of condition" of our design issues.
3. Required to address organizational, programmatic, or process deficiency that led to the design margin condition.
4. Required to address a current operability issue.
5. Required to address a significant equipment materiel condition or reliability deficiency (especially repetitive failure).



## Restart Panel



## Restart Accountability Team



## RESTART REVIEW LIST

- o Open precursor cards and problem reports
- o Open NRC items:
  - Violations
  - Unresolved items (URI's)
  - Inspector followup items (IFI's)
- o [NRC] Minutes of Crystal River Restart Panel First Meeting, November 13, 1996 - Attachment B, Crystal River 3 Issues Checklist
- o IPAP action list and proposed violations
- o Requests for engineering assistance (REA's)
- o Independent design review panel (IDRP) action list
- o Management corrective action plan (MCAP II) action list
- o Maintenance items
- o Key Focus Item list
- o Open PRC/NGRC issues
- o Licensee event reports (LER's)
- o NRC commitments (NOCS)
- o B&W generic issues:
  - Decay heat dropline
  - LOCA induced mechanical fuel loading
  - OTSG primary/secondary coupling - EFP steam supply
  - OTSG tube primary boundary integrity
  - RCP bumping - recriticality
  - Wolf Creek sticking control rod applicability
  - Groove IGA applicability
- o Surveillance procedure - status to operate until Refuel 11
- o Organizational and Programmatic (O&P) issues:
  - Corrective action program
  - Root cause evaluation program
  - 10CFR50.59 evaluation program
  - Design basis program
  - Engineering calculation process
  - FSAR review program

- o OP/EOP/AP/SP changes
- o Amendments required:
  - Unresolved safety questions (USQ's)
  - Technical specification changes
  - License conditions
- o Restart procedure (AI-256) completion

RESTART ISSUES  
Regulatory Items - B. Gutherman

Approved: Gary Boldt 12/3/96  
G. L. Boldt  
Restart Panel Chairman

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
R-1	G.L. 96-01 review.  Address issues identified as a result of GL 96-01 reviews.	GL 96-01 testing LER 96-11-00 LER 96-25-00	J. Maseda	
R-2	I.S. amendment for EDG load uprate: - diesel generator load ratings - fuel storage - kw meters  Supports resolution of EDG USQs through modifications. Involves changes to technical specifications and bases.  (See item D-6)	LER 96-20-00 LER 96-25-00	B. Gutherman	
R-3	Complete maintenance rule structural baseline inspection of the RB.	N/A	A. Petrowsky	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
R-4	ASV-204 license amendment to resolve USQ.  Supports resolution of USQ(s) generated as a result of these modifications.  (See item D-5)	Problem Report	B. Gutherman	
R-5	DH-45-FI license amendment.  Inoperable flow instrument contradicts license condition 2.C.(5). Resolution may require license amendment.	Problem Report	B. Gutherman	
R-6	FSAR table 8-1,8-2 update (EDG load listing).  New loads are being calculated to support post-modification configuration. Revised FSAR table will be submitted prior to restart.	FPC letter to NRC 3F1196-01, FSAR Revision 23	B. Gutherman	
R-7	ITS 3.0.3 relief for LPI to allow DCV 17/18, 177/178 modification.  Installation may simultaneously block valve control for two DH trains. Safest time to install is MODE 3 or higher, when RCPs are running and OTSG cooling is available.  (see item D-10)	Problem Report	B. Gutherman	
R-8	Complete and submit the 10CFR50.54(f) letter response	NRC Letter to FPC dated 10/9/96	R. Widell	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

Acronyms listed below correspond to those items listed in the Issue Identifier column

(\*)    EEI - Escalated Enforcement Item  
      EA - Enforcement Action  
      IDRP - Independent Design Review Panel  
      IFI - Inspector Follow-up Item  
      IPAP - Integrated Performance Assessment Process  
      GL - Generic Letter  
      LER - Licensee Event Report  
      MCAP II - Management Corrective Action Plan, Phase II  
      OCR - Operability Concerns Resolution  
      PC - FPC Precursor Card  
      PR - FPC Problem Report  
      URI - Unresolved Item  
      VIO - Violation

RESTART ISSUES  
Design Readiness/Extent of Condition Items - F. Sullivan

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-1	HPI pump recirculation to the makeup tank.  Changes needed to eliminate or control recirculation flow to MUT post-LOCA to prevent relief valve from lifting.	CR3 D.I.1  FPC to NRC letter 3F1096-22, dated 10/28/96, Item 1.	F. Sullivan	
D-2	HPI system modifications to improve SBLOCA margins.  Refuel II scope. Includes cavitating venturis and modifications to reduce operator burden.	CR3 D.I.2 LER 96-06-00 LER 96-06-01 IFI 96-03-16  FPC to NRC letter 3F1096-22, dated 10/28/96, Item 2.	F. Sullivan	
D-3	LPI pump mission time.  Extend allowed low-flow time using test data and evaluation of results (pump teardown and inspection)	CR3 D.I.3 URI 96-201-01 OCR:DH.96 - DHP 1A/1B-3  FPC to NRC letter 3F1096-22, dated 10/28/96, Item 3.	J. Terry	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- FEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-4	Reactor building spray pump 1B NPSH.  Tear down pumps, perform flow test (and modify impeller, if required) to reduce NPSH required.	CR3 D.I.4 URI 96-201-02 OCR: BS-96-BSP-1B  FPC to NRC letter 3F1096-22, dated 10/28/96, Item 4.	J. Terry	
D-5	Emergency feedwater system upgrades and diesel generator load impact: - cavitating venturis - automate cross tie valve EFV-12 - EFIC compensating module - Add ASV-204 "A" auto signal  Reverses previous modification which removed "A"-side auto-start signal from steam inlet valve to "B"-side EFW pump. These modifications address the NPSH issue and/or reduce operator burden.	CR3 D.I.5 URI 96-12-01 VIO 96-09-07  FPC to NRC letter 3F1096-22, dated 10/28/96, Item 5.	F. Sullivan	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation



ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-6	<p>Emergency diesel generator loading:</p> <ul style="list-style-type: none"> <li>- capacity uprate</li> <li>- remove nonessential load(s)</li> <li>- kw meter accuracy improvement</li> <li>- CT/PT changes</li> <li>- Calibration equipment upgrade</li> <li>- Extend the 30 minute rating to a 90 minute rating</li> </ul> <p>Increases the continuous, 2000 hr, and 200 hr ratings. 30 minute rating duration may be increased. Reduces connected load. Allows more accurate testing measurement of EDG output.</p>	<p>CR3 D.I.6 EEI 96-12-02 OCR: EG-96-EGDG 1A/1B</p> <p>FPC to NRC letter 3F1096-22, dated 10/28/96, Item 6.</p>	F. Sullivan	
D-7	<p>Failure modes and effects analysis (FMEA) of loss of DC power.</p> <p>Extensive review of scenario creating several recent design basis problems.</p>	<p>CR3 D.I.7</p> <p>FPC to NRC letter 3F1096-22, dated 10/28/96, Item 7.</p>	J. Maseda	
D-8	<p>Generic Letter 96-06 (thermal overpressure protection for containment piping, penetrations, and coolers).</p> <p>Will address overpressure issue with hardware mods. Will evaluate and address susceptibility to other issues.</p>	<p>CR3 D.I.8 IFI 96-08-02 OCR: RB-96-penetrations</p> <p>FPC to NRC letter 3F1096-22, dated 10/28/96, Item 8.</p>	F. Sullivan	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-9	Discrepancies in HPI design basis analysis. Re-confirm key hydraulic model inputs.	URI 96-01-02	F. Sullivan	
D-10	DCV 17/18, 177/178 positioners (Mode 3 or above) Addresses non-safety related controllers on SR valves.	URI 96-201-04	K. Lancaster	
D-11	Appendix R review: - transformer protection devices - hot short effect on remote S/D panel fuses - approval of NI detector TSI removal Addresses design/licensing basis issues found in Appendix R review.	VIO 96-06-06	W. Rossfeld	
D-12	EDG protective trips not bypassed during emergency mode of operation. New EDG trips added by plant modification not bypassed during emergency mode of operation.	IFI 96-201-14	F. Sullivan	
D-13	Develop system timelines for EF, MU, DH, BS, EG modifications and related Licensing correspondence Extent of Condition element.	N/A	P. Tanguay	
D-14	Re-perform the diesel loading calculation. Confirmation of existing calculation.	EEl 96-12-04	F. Sullivan	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEl - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-15	Review a sample (20) of past modification 50.59's.  Extent of Condition element.	N/A	R. Knoll	
D-16	Perform an integrated safety assessment of current outage modifications.  Back-end look at modifications made this outage to assess aggregate safety impact.	N/A	F. Sullivan	
D-17	Complete NPSH review of EFP suction swapover from EFT to CST.  Hydraulic issue. No check valves between tanks.	Problem Report	F. Sullivan	
D-18	Resolve NPSH concern when SFP's are used to recirc BWST.  Hydraulic issue. LOCA during SFP recirculation of BWST would add to friction loss in a portion of one train's ECCS suction lines.	Problem Report	G. Becker	
D-19	Correct RMG 29/30 seismic mounting.  Control board mounting of high-range containment radiation monitor instrumentation is not seismically qualified.	Problem Report	F. Sullivan	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
D-20	Correct RW cyclone separator fouling.  SR source of RWP bearing flush water. Addresses repetitive plugging of separator drain line due to fouling/corrosion.	Problem Report	F. Sullivan	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCCP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

RESTART ISSUES  
Maintenance/Materiel Condition Items - J. Campbell/J. Terry

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
M-1	Toxic gas monitoring (CL <sub>2</sub> Channels) - Repetitive failures.	Problem Report	J. Terry	
M-2	Main control board deficiencies - too many. (Goal <10)  Resolve all that can be resolved without de-fueling or having to be at power.	N/A	J. Campbell	
M-3	MUV-103 - repetitive seat leakage.	Problem Report	J. Terry	
M-4	Surveillance (charcoal) testing complete on air handling system.	OCR-AH-96- AHFL-1 AHFL-2A AHFL-2B AHFL-2C AHFL-2D	J. Terry	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
M-5	Turbine lube oil piping failure analysis.  Determine cause of piping failure and implement actions to prevent recurrence.	Problem Report	J. Terry	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

RESTART ISSUES  
Organizational and Programmatic (O & P) Items - D. Wilder

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
OP-1	Improve safety culture.	MCAP II	P. Beard	
OP-2	Upgrade the problem reporting (CP-111) program.  Eliminates problem reports and replaces with one graded precursor approach.	IPAP Report MCAP II	D. Wilder	
OP-3	Upgrade the root cause (CP-144) program.	IPAP Report  EEI 96-12-03	D. Wilder	
OP-4	Upgrade the operability/reportability (CP-150/151) program.  Separate and better define the two processes. Provide better guidance for decisionmaking.	VIO 94-27-02 VIO 94-27-03	G. Halnon	
OP-5	Upgrade the 50.59 review process.  Improve program and provide training to the set of people to be qualified for writing and reviewing 50.59s.	EEI 96-12-03	B. Gutherman	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
OP-6	Upgrade the engineering calculation process.  Address issue of using unverified case studies.	EEI 96-12-04 EA 95-126 NOV I.D.1	K. Baker	
OF-7	Upgrade the design basis program to include: - ownership - definition - documents included in scope (clearly define intent)	IDRP Report IPAP Report	K. Baker	
OP-8	Establish a high-level configuration control procedure (NOD).  Establish and document management expectations for the program.	VIO 96-05-05 VIO 96-09-06	K. Baker	

Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEI - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation



RESTART ISSUES  
Operator Readiness Items - R. Davis

ISSUE #	DESCRIPTION	ISSUE IDENTIFIER (*)	ACTION ASSIGNED TO	STATUS
0-1	OP-103 A&B curves - need to be validated.  Verify and validate whether curves are design basis and what that basis is.	URI 96-201-03 URI 96-201-05 EA 95-126 NOV I.C.2	J. Maseda	
0-2	Verify SP's for containment integrity; include as-built mechanical penetration configurations (SP-324, 341, 346).  Addresses test, vents, and drains issue	LER 96-18-00, -01	J. Maseda	
0-3	Complete operator training on EOP/AP/OP changes resulting from restart issues.	N/A	R. Davis	

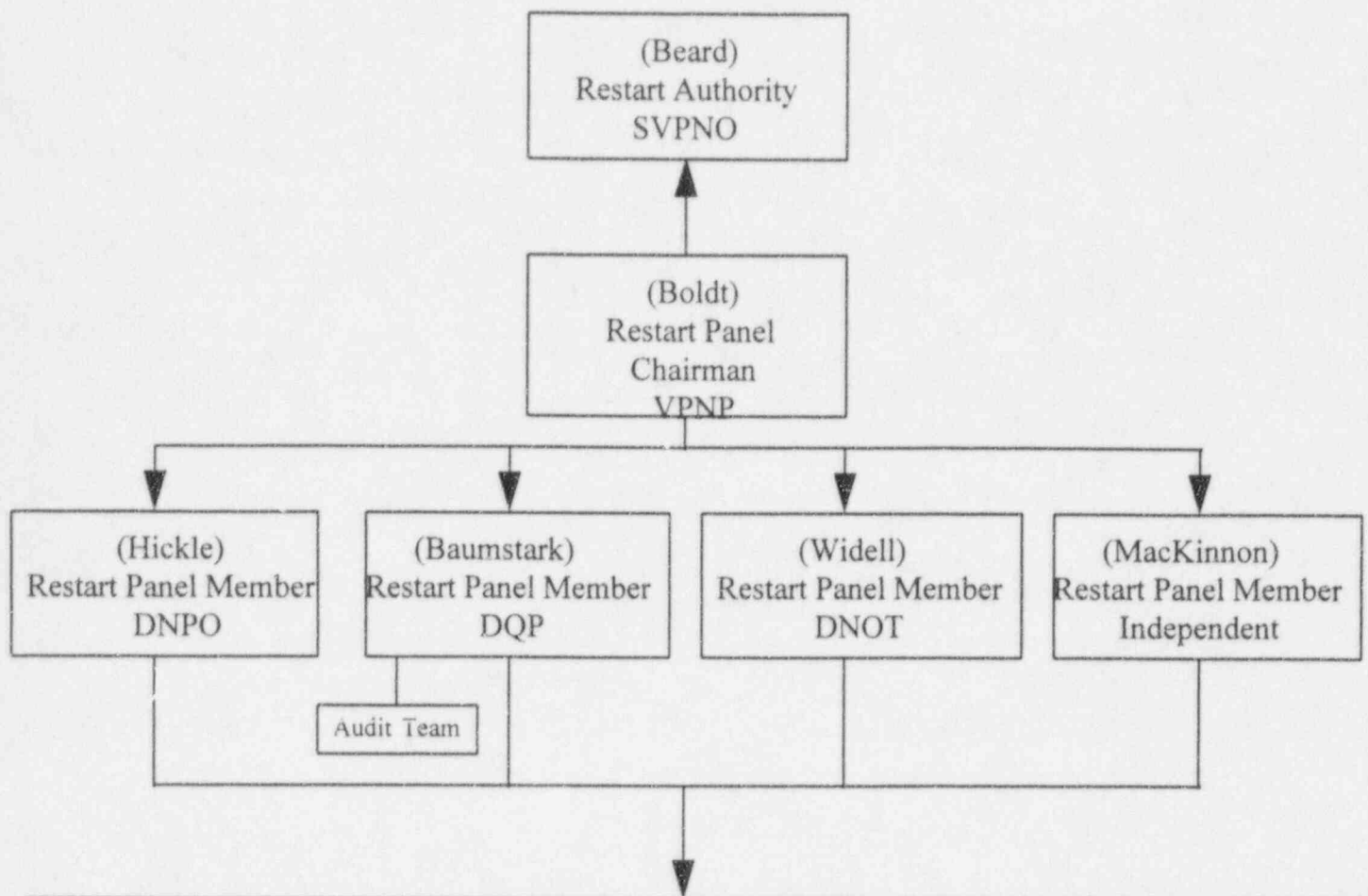
Acronyms listed below correspond to those items listed in the Issue Identifier column

- (\*)
- EEL - Escalated Enforcement Item
  - EA - Enforcement Action
  - IDRP - Independent Design Review Panel
  - IFI - Inspector Follow-up Item
  - IPAP - Integrated Performance Assessment Process
  - GL - Generic Letter
  - LER - Licensee Event Report
  - MCAP II - Management Corrective Action Plan, Phase II
  - OCR - Operability Concerns Resolution
  - PC - FPC Precursor Card
  - PR - FPC Problem Report
  - URI - Unresolved Item
  - VIO - Violation

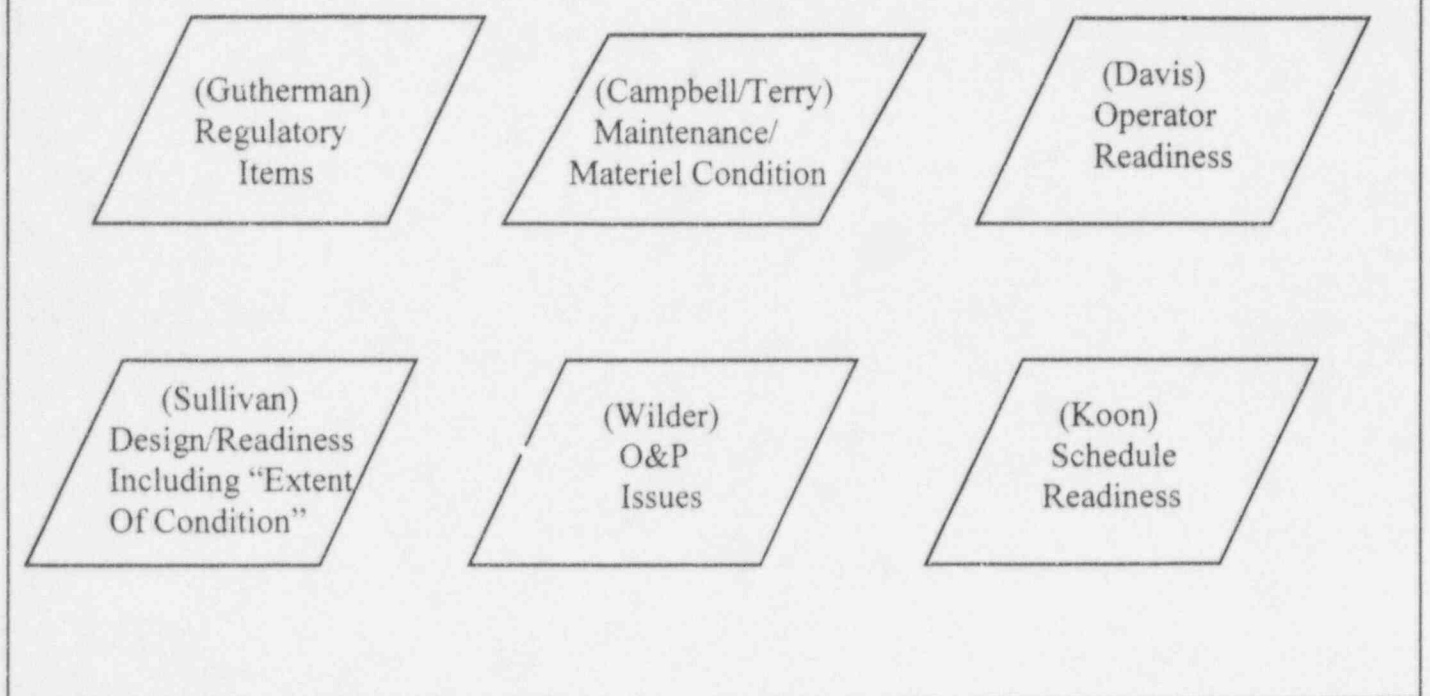
RESTART ISSUES  
SELECTION/SCREENING CRITERIA

1. Required to directly address the purpose for outage extension (design margin improvement of selected safety systems).
2. Required to determine the "extent of condition" of our design issues.
3. Required to address organizational, programmatic, or process deficiency that led to the design margin condition.
4. Required to address a current operability issue.
5. Required to address a significant equipment materiel condition or reliability deficiency (especially repetitive failure).

## Restart Panel



## Restart Accountability Team



## RESTART REVIEW LIST

- o Open precursor cards and problem reports
- o Open NRC items:
  - Violations
  - Unresolved items (URI's)
  - Inspector followup items (IFI's)
- o [NRC] Minutes of Crystal River Restart Panel First Meeting, November 13, 1996 - Attachment B, Crystal River 3 Issues Checklist
- o IPAP action list and proposed violations
- o Requests for engineering assistance (REA's)
- o Independent design review panel (IDRP) action list
- o Management corrective action plan (MCAP II) action list
- o Maintenance items
- o Key Focus Item list
- o Open PRC/NGRC issues
- o Licensee event reports (LER's)
- o NRC commitments (NOCS)
- o B&W generic issues:
  - Decay heat dropline
  - LOCA induced mechanical fuel loading
  - OTSG primary/secondary coupling - EFP steam supply
  - OTSG tube primary boundary integrity
  - RCP bumping - recriticality
  - Wolf Creek sticking control rod applicability
  - Groove IGA applicability
- o Surveillance procedure - status to operate until Refuel 11
- o Organizational and Programmatic (O&P) issues:
  - Corrective action program
  - Root cause evaluation program
  - 10CFR50.59 evaluation program
  - Design basis program
  - Engineering calculation process
  - FSAR review program

- o OP/EOP/AP/SP changes
- o Amendments required:
  - Unresolved safety questions (USQ's)
  - Technical specification changes
  - License conditions
- o Restart procedure (AI-256) completion